

225	230										235					240				
Pro	Val	Val	Gly	Arg	Asp	Glu	Glu	Ile	Arg	Gln	Met	Val	Asp	Ile	Leu					
245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320					
Met	Arg	Arg	Arg	Gln	Asn	Asn	Pro	Leu	Leu	Thr	Gly	Glu	Ala	Gly	Val					
Gly	Lys	Thr	Ala	Val	Val	Glu	Gly	Leu	Ala	Leu	Arg	Ile	Ala	Asp	Gly					
Asp	Val	Pro	Glu	Pro	Leu	Gln	Asn	Val	Gln	Leu	Trp	Leu	Leu	Asp	Ile					
290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365					
Gly	Met	Leu	Gln	Ala	Gly	Ala	Gly	Met	Lys	Gly	Glu	Phe	Glu	Ala	Arg					
Leu	Gln	Ala	Leu	Ile	Asn	Glu	Val	Gln	Ser	Ser	Ala	Thr	Pro	Ile	Ile					
Leu	Phe	Ile	Asp	Glu	Ile	His	Thr	Leu	Ile	Gly	Ala	Gly	Gly	Gln	Gln					
Gly	Thr	Gly	Asp	Ala	Ala	Asn	Leu	Lys	Pro	Ala	Leu	Ala	Arg	Gly	Gly					
Gln	Leu	Arg	Thr	Ile	Gly	Ala	Thr	Thr	Trp	Ala	Glu	Tyr	Lys	Lys	Tyr					
370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445					
Ile	Glu	Lys	Asp	Pro	Ala	Leu	Thr	Arg	Arg	Phe	Gln	Thr	Val	Gln	Val					
His	Glu	Pro	Asp	Glu	Ala	Lys	Ala	Val	Leu	Met	Leu	Arg	Ser	Thr	Val					
Ser	Pro	Leu	Glu	Thr	His	His	Gln	Val	Leu	Leu	Leu	Asp	Glu	Ala	Val					
Ser	Ala	Ala	Val	Lys	Leu	Ser	His	Arg	Tyr	Ile	Pro	Ala	Arg	Gln	Leu					
Pro	Asp	Lys	Ala	Val	Ala	Leu	Leu	Asp	Thr	Ala	Cys	Ala	Arg	Val	Ala					
450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525					
Val	Ser	Gln	Ser	Ala	Pro	Pro	Ala	Gln	Leu	Glu	Asp	Cys	Leu	Arg	His					
Leu	Ala	Ala	Leu	Asp	Val	Glu	Leu	Glu	Ile	Ala	Glu	Arg	Glu	Ala	Arg					
Val	Gly	Ala	Gly	Asp	Pro	Ala	Arg	Val	Ala	Thr	Leu	Thr	Ala	Glu	Arg					
Asp	Ala	Phe	Glu	Thr	Gln	Arg	Glu	Ala	Leu	Ala	Arg	Arg	Trp	Glu	Glu					
Glu	Arg	Thr	Arg	Val	Gln	Glu	Ile	Ile	Arg	Leu	Arg	Ala	Ala	Leu	Phe					
530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605					
Ala	Ala	Gly	Asp	Glu	Asp	Thr	Ala	Glu	Leu	Arg	Gly	Gln	Leu	Ala	Glu					
Gln	Gln	Gln	Ala	Leu	Lys	Ile	Leu	Gln	Gly	Asp	Glu	Pro	Leu	Leu	Phe					
Ala	Ala	Val	Asp	Glu	Asn	Val	Val	Ala	Ala	Val	Val	Ser	Asp	Trp	Thr					
Gly	Ile	Pro	Leu	Gly	Arg	Met	Val	Lys	Asn	Glu	Ile	Asp	Ala	Val	Leu					
Asn	Leu	Ala	Asp	Thr	Leu	Asn	Gln	Arg	Val	Ile	Gly	Gln	Arg	His	Gly					
Leu	Asp	Leu	Ile	Ala	Arg	Arg	Val	Lys	Thr	Ser	Arg	Ala	Lys	Leu	Asp					
625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700					
Asp	Pro	Asn	Lys	Pro	Val	Gly	Val	Phe	Met	Leu	Cys	Gly	Pro	Ser	Gly					
Val	Gly	Lys	Thr	Glu	Thr	Ala	Leu	Ala	Leu	Ala	Glu	Ser	Leu	Tyr	Gly					
Gly	Glu	Gln	Asn	Val	Ile	Thr	Ile	Asn	Met	Ser	Glu	Phe	Gln	Glu	Ala					
His	Thr	Val	Ser	Thr	Leu	Lys	Gly	Ala	Pro	Pro	Gly	Tyr	Val	Gly	Tyr					
Gly	Glu	Gly	Gly	Val	Leu	Thr	Glu	Ala	Val	Arg	Arg	Arg	Pro	Tyr	Ser					
705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780					

Val Val Leu Leu Asp Glu Ile Glu Lys Ala His Pro Asp Val His Glu
 725 730 735
 Ile Phe Phe Gln Val Phe Asp Lys Gly Trp Met Glu Asp Gly Glu Gly
 740 745 750
 Arg His Ile Asp Phe Arg Asn Thr Ile Ile Ile Leu Thr Ser Asn Val
 755 760 765
 Gly Thr Glu Leu Ile Ser Ala Met Cys Ala Asp Pro Asp Leu Met Pro
 770 775 780
 Glu Pro Glu Ala Leu Ser Gly Ala Leu Arg Gln Pro Leu Leu Glu Val
 785 790 795 800
 Phe Pro Pro Ala Leu Leu Gly Arg Leu Leu Val Val Pro Tyr Tyr Pro
 805 810 815
 Leu Ser Asp Glu Met Leu Gly Gln Ile Val Arg Leu Gln Leu Arg Arg
 820 825 830
 Ile Gln Arg Arg Leu Glu Glu Asn His Asn Ile Ile Ser Glu Phe Asp
 835 840 845
 Asp Ser Val Val Glu Gln Ile Val Gln Arg Cys Thr Glu Val Glu Ser
 850 855 860
 Gly Gly Arg Met Val Asp Ala Ile Leu Thr Asn Thr Leu Leu Pro Gln
 865 870 875 880
 Met Ser Gln Ile Leu Leu Thr Ala Ser Arg Ser Asp Gln Gln Tyr Arg
 885 890 895
 Arg Leu His Val Thr Cys Glu Gln Gly Glu Phe His Cys Gln Phe Ala
 900 905 910
 Ala

<210> 7677

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 7677

Lys Met Thr Asp Asn Asp Asn Asn Arg Thr Val Pro Asn Ala Leu Pro
 1 5 10 15
 Val Gly Tyr Arg Phe Asn Glu Phe Glu Ile Lys Glu Val Ile Gly Gly
 20 25 30
 Gly Gly Phe Gly Ile Val Tyr Arg Ala Trp Asp His Gln Leu Glu Arg
 35 40 45
 Thr Ile Ala Ile Lys Glu Phe Met Pro Ser Ser Leu Ala Val Arg Gly
 50 55 60
 Glu Asp Met Thr Leu Val Leu Arg Ser Glu Arg Phe Gly Lys Ala Phe
 65 70 75 80
 Ser Ala Gly Leu Asn Ser Phe Ile Gln Glu Ala Arg Leu Leu Ala Arg
 85 90 95
 Phe Asn His Pro Asn Leu Leu His Val Leu Arg Phe Trp Val Gln Asn
 100 105 110
 Asp Thr Ala Tyr Met Gly Thr Leu Phe Tyr Ser Gly Thr Thr Leu Ser
 115 120 125
 Arg Leu Arg Glu Glu Lys Pro Glu Leu Ile Asn Glu Ala Trp Ile Arg
 130 135 140
 Arg Met Leu Pro Met Leu Phe Gly Ala Ile Lys Thr Ile His Asp Glu
 145 150 155 160
 Gly Tyr Leu His Arg Asp Ile Ser Leu Asp Asn Ile Gln Ile Gln Asp
 165 170 175
 Asn Gly Leu Pro Val Leu Leu Asp Phe Gly Ser Ala Arg Arg Thr Ile
 180 185 190
 Gly Asn Leu Ser Asp Glu Thr Glu Thr Met Leu Arg Pro Gly Phe Ala
 195 200 205
 Pro Ile Glu Gln Tyr Thr Asp Asp Asn Glu Ser Glu Gln Gly Pro Trp
 210 215 220

Thr Asp Ile Tyr Ala Leu Gly Ala Val Leu Arg Thr Leu Ile Val Gly
 225 230 235 240
 Ser Pro Pro Pro Val Ser Val Val Arg Ser Ile Gln Asp Thr Cys Lys
 245 250 255
 Pro Leu Val Glu Leu Met Pro Gln Gly Tyr Ser Ile Pro Leu Leu Gln
 260 265 270
 Ala Ile Asp Lys Ala Leu Ala Leu His Met Glu Asp Arg Pro Gln Ser
 275 280 285
 Ile Glu Glu Phe Ala Ala Leu Ile Glu Met Pro Val Ala Gly Ile Asp
 290 295 300
 Glu Val Leu Thr Ala Lys Lys Thr Gly Thr Met Leu Val Pro Val Glu
 305 310 315 320
 Glu Glu Ala Ser Ala Ser Ala Leu Asp Trp Arg Arg Tyr Lys Leu Pro
 325 330 335
 Gly Leu Val Ala Ala Gly Val Leu Val Gly Val Val Ala Gly Ala Met
 340 345 350
 Leu Phe Gly Gly Gly Ser Gln Glu Thr Pro Glu Gln Thr Ala Gln Thr
 355 360 365
 Pro Ala Val Ser Pro Pro Ala Glu Thr Ser Ser Gln Ser Glu Thr Arg
 370 375 380
 Pro Ala Thr Ala Asp Val Ser Glu Pro Val Ala Pro Pro Ala Thr Ala
 385 390 395 400
 Gln Gln Ser Ala Pro Pro Val Asp Ala Ser Pro Val Ala Leu Val Tyr
 405 410 415
 Ile Arg Met Leu Asp Gly Glu Thr Leu Lys Val Asn Gly Glu Ser Lys
 420 425 430
 Ala Leu Arg Pro Gly Asn Asn Gly Tyr Ala Ser Leu Lys Leu Pro Ala
 435 440 445
 Gly Glu Thr Arg Ile Glu Leu Glu Gly Asn Gly Arg Thr Arg Thr Gln
 450 455 460
 Thr Leu Asp Ile Ala Lys Pro Gly Thr Trp Leu Val Asn Pro
 465 470 475

<210> 7678

<211> 263

<212> PRT

<213> *Enterobacter cloacae*

<400> 7678

Gly Tyr Phe Asp Asn Arg Glu Ser Ile Val Lys Lys Gly Leu Met Ala
 1 5 10 15
 Phe Val Ala Leu Cys Phe Leu Phe Met Ile Gln Gly Cys Lys Gln Asp
 20 25 30
 Met Asp Leu Asn Pro Gln Asp Tyr Phe Ser Gly Gln Gln Leu Glu Leu
 35 40 45
 Ala Lys Ala Ile Glu Glu Gly Asp Val Asp Ala Val Lys Thr Leu Ala
 50 55 60
 Pro Asp Ser Asp Leu Asn Lys Pro Gly Lys Gln Asp Met Thr Leu Leu
 65 70 75 80
 Phe Trp Ala Ile Gly Asn Ala Ile Asn Asp Lys Lys Thr Ser Pro His
 85 90 95
 Leu Lys Val Ile Thr Leu Leu Val Lys Ala Gly Ala Asp Pro Leu Gln
 100 105 110
 Pro Arg Pro Gln Gly Lys Ser Ser Pro Ala Glu Phe Ala Leu Lys Gly
 115 120 125
 Asp Ser Ala Asp Trp Ile Asp Ala Met Leu Asp Gly Gly Leu Ser Pro
 130 135 140
 Asn Val Lys Asp Lys Val Phe His Glu Pro Ile Val Phe Gln Ser Leu
 145 150 155 160
 Lys Ala Lys Asn Thr Glu Thr Leu Glu Ala Met Leu Asn Arg Gly Ala
 165 170 175

Asp Val Asn Ser Thr Asn Ser Leu Gly Lys Thr Leu Val Phe Asp Ala
 180 185 190
 Leu Asp Asn Gln Ala Tyr Asp His Val Leu Leu Leu Leu Asp Arg Gly
 195 200 205
 Ala Asp Pro Ser Ile Lys Ala Lys Asn Gly Trp Ser Met Ser Asn Ala
 210 215 220
 Leu Ala Asp Ala Leu Asn Gly Leu Glu Arg Gly Ser Glu Gln Tyr Glu
 225 230 235 240
 Lys Leu Asn Glu Ile Lys Glu Lys Leu Ile Gln Lys Gly Gly Glu Trp
 245 250 255
 Pro Pro Ala Pro Val Lys
 260

<210> 7679

<211> 398

<212> PRT

<213> Enterobacter cloacae

<400> 7679

Arg Val Arg Arg Pro Ile Thr Arg Thr Phe Thr Phe Lys Lys Pro Cys
 1 5 10 15
 Val Lys Asn Ile Leu Ser Ile Asn His Tyr Gly Ile Lys Ile Met Leu
 20 25 30
 Asn Arg Ile Thr Val Gln Leu Pro Val Glu Gly Leu Leu Phe Trp Lys
 35 40 45
 Leu Ser Gly Arg Glu Ala Met Ser Glu Ser Phe Ala Leu Thr Leu Thr
 50 55 60
 Leu Leu Gly Thr Asp Ala Arg Ile Asp Arg Ser Arg Leu Leu Gly Gln
 65 70 75 80
 Pro Val Thr Val Thr Ile Pro Thr Gln Ser Leu Leu Thr Pro Arg Phe
 85 90 95
 Ile Asn Gly Lys Val Thr Arg Val Ala Val Ser Ala Val Glu Leu Thr
 100 105 110
 Gly Thr Arg Tyr Ala Val Tyr Gln Leu Thr Val Glu Pro Asp Leu Trp
 115 120 125
 Pro Met Lys Arg Asp Arg Asn Leu Arg Ile Phe Gln Gly Gln Thr Val
 130 135 140
 Pro Gln Ile Val Lys Thr Leu Leu Gly Glu His Gln Val Asn Leu Glu
 145 150 155 160
 Asp Lys Leu Thr Gly Ser Tyr Arg Val Trp Asp Tyr Cys Val Gln Tyr
 165 170 175
 Gln Glu Ser Ser Leu Asp Phe Ile Ser Arg Leu Met Glu Leu Glu Gly
 180 185 190
 Ile Ala Tyr Tyr Phe Ser His Glu Ala Asp Lys His Thr Leu Val Leu
 195 200 205
 Thr Asp Ala Ala Pro Gln His Gln Pro Phe Ser Gly Tyr Glu Val Ile
 210 215 220
 Pro Tyr His Gln Thr Pro Ser Gly Gly Ser Thr Asp Glu Glu Gly Ile
 225 230 235 240
 Ser Gln Trp Ala Leu Glu Asp Ser Val Thr Pro Gly Ile Tyr Ser Leu
 245 250 255
 Asp Asp Tyr Asp Phe Arg Lys Pro Asn Ala Trp Leu Phe Gln Ala Gln
 260 265 270
 Gln Tyr Pro Ala Ser Pro Lys Pro Gly Ser Ile Asp Val Tyr Asp Trp
 275 280 285
 Pro Gly Arg Phe Val Glu Ser Ala His Thr Glu Ile Tyr Ala Ser Phe
 290 295 300
 Pro Arg Glu Leu Trp Gln Leu Glu His Gln Gln Ile Gln Ala Ser Thr
 305 310 315 320
 Trp Arg Arg Gly Val Thr Pro Ser Ser Ser Ile Pro Ala Met Cys Ser
 325 330 335

Met Lys Met Trp Arg Cys Leu Pro Val Ser Trp Arg Ala Arg Lys Lys
 340 345 350
 Met Pro Cys Leu Ser Val Met Arg Cys Leu Ile Ser Ala Arg Gly Lys
 355 360 365
 Lys Cys Cys Ala Val Arg Asn Gln Ala Gly Ile Ser Thr Thr Ala Ser
 370 375 380
 Arg Pro Ala Ile Arg Leu Phe Ser Ser Gln Gly Ala Val
 385 390 395

<210> 7680

<211> 599

<212> PRT

<213> *Enterobacter cloacae*

<400> 7680

Ser Tyr Gln Gln Glu Tyr Ala Met Arg Phe Thr Ile Ile Ser Thr Lys
 1 5 10 15
 Pro Gly His Gln Pro Pro Gln Ser Ser Cys Asp Phe Tyr Ala Pro Gly
 20 25 30
 Gly Thr Ile Gly Arg Gly Thr Asp Asn Asn Leu Val Leu Pro Asp Asn
 35 40 45
 Asp Arg Thr Ile Ser Arg Leu Gln Ala Ile Val His Val Asp Ala Ser
 50 55 60
 Gly Glu Cys Arg Val Thr Asn Arg Gly Ser Val Thr Arg Val Val Leu
 65 70 75 80
 Asn Asp Ile Pro Leu Glu Arg Gly Arg Gln Val Glu Leu Gln Asp Gly
 85 90 95
 Asp Ile Leu Gly Ile Asp Asp Tyr Arg Ile Glu Val Ser Glu Leu Ile
 100 105 110
 His Asp Thr Gln Pro Val Ser Arg Met Ala Ala Ser Met Gln Gln Ala
 115 120 125
 Arg Pro Ala Ala Thr Pro Ala Pro Ala Pro Gln Pro Lys Pro Ala Ser
 130 135 140
 Ala Ala Pro Arg Gly Lys Ala Glu Pro Thr Ala Val Pro Ser Glu Ile
 145 150 155 160
 Trp Asp Ser Leu Met Gln Glu Phe Ser Ile Ser Asp Ser Ile Ser Ser
 165 170 175
 Asn Arg Ala Lys Pro Gln Pro Ala Ala Ser His Asp Pro Phe Ser Gln
 180 185 190
 Pro Ala Ala Pro Glu Arg Asn Ala Glu Asp Pro Leu Ala Met Phe Asn
 195 200 205
 Asp Ala Glu Pro Ser Leu Glu Arg Lys Asn Val Asp Pro Asp Thr Leu
 210 215 220
 Phe Ser Asp Glu Ala Leu Phe Lys Lys Glu Ser Ile Phe Asp Asp Val
 225 230 235 240
 Thr Pro Ser Thr Leu Val Gln Pro Asp Glu Ser Lys Pro Ala Gln Pro
 245 250 255
 Lys Glu Glu Ala Ser Asp Glu Leu Asp Pro Leu Ala Leu Phe Gly Gly
 260 265 270
 Ser Ala Ser Ala Pro Ala Ala Arg His Asp Asp Pro Leu Gly Leu Met
 275 280 285
 Gly Gly Ala Pro Leu Thr His Pro Asp Glu Ile Val Ala Asp Lys Pro
 290 295 300
 Glu Pro Lys Pro Glu Ala Gln Ala Ala Gln Glu Glu Asp Ala Leu Ala
 305 310 315 320
 Ser Ser Pro Leu Phe Asp Pro Glu Pro Thr Glu Pro Gln Asp Ala Pro
 325 330 335
 Arg Ala Glu Glu Glu Pro Ala Arg Pro Asp Tyr Ala Gly Phe Thr Met
 340 345 350
 Pro Thr Pro Gln Ala Val Ala Arg Ser Asn Ala Gln Ala Pro Lys Gly
 355 360 365

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Arg Leu Arg Ile Asp Pro Val Lys Asn Ala Ala Ser Pro Ala Ala Ser
370          375          380
Ala Gln Thr Gly Glu Arg Gly Glu Val Leu Gln Gly Glu Leu Leu Glu
385          390          395
Ala Leu Leu Glu Gly Met Gly Leu Ser Glu Met Gln Pro Val Pro Gln
405          410          415
Phe Asp Arg Glu Asn Met Arg Gln Leu Gly Gln Ile Leu Gly Met Phe
420          425          430
Ser Gln Gly Thr Val Ala Leu Leu Ser Ser Arg Ser Ile Leu Lys Arg
435          440          445
Gly Val Lys Ala Asp Met Thr Met Val Leu Asp Asp Ala Asn Asn Pro
450          455          460
Phe Lys Leu Leu Pro Thr Gly Lys Thr Val Leu Ile Gln Met Phe Gly
465          470          475
Thr Pro Met Pro Gly Phe Met Pro Pro Thr Lys Ser Val Arg Asp Ala
485          490          495
Leu Ile Asp Leu Gln Ala His Gln Leu Gly Met Ile Ser Gly Ile Arg
500          505          510
Ala Ile Ile Ala Ala Met Leu Gln Ser Phe Asn Pro Glu Gln Leu Glu
515          520          525
Glu Gln Ala Lys Gln Asn Gly Met Thr Ser Arg Leu Ala Leu Pro Gly
530          535          540
Ser Arg Lys Ala Ala Leu Trp Asp Tyr Phe Val Arg Ser Tyr Gly Glu
545          550          555
Thr Ala Gly Glu Ile Glu Asp Asp Phe His Thr Leu Phe Gly Glu Ala
565          570          575
Phe Leu His Ala Tyr Asp Met Glu Val Asn Gln Tyr Lys Asp Ser Gln
580          585          590
Ser Gly Ser Glu Glu Lys
595

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<210> 7681

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 7681

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Leu Pro Gln Ala Glu Arg Val Ala Val Pro Gly Pro Ala Val Pro Gly
1          5          10          15
Val Thr Glu Thr Gly Gln His Arg Arg Val Arg Leu Ala Gly Ala Leu
20          25          30
Cys Gly Val Gly Pro Tyr Gly Asn Leu Arg Gln Leu Pro Ser Gly Ala
35          40          45
Leu Ala Ile Gly Ala Ser Ala Asp Ser Gly Ile Asn Met Ala Gln Gly
50          55          60
Arg Tyr Ala Ile Phe Leu Asn Ser Gly Asp Val Phe His Glu Asn Val
65          70          75          80
Ala Leu Phe Ala Arg Gln Leu Ala Arg Gln Lys Glu Asp Ala Met Phe
85          90          95
Ile Gly Asp Ala Leu Leu Asp Phe Gly Glu Gly Lys Lys Val Leu Arg
100          105          110
Gly Ala Lys Pro Gly Trp Tyr Ile Tyr His Ser Leu Pro Ala Ser His
115          120          125
Gln Ala Ile Phe Phe Pro Arg Arg Gly Leu Lys Phe Ser Met Arg Arg
130          135          140
Cys Arg Ser Ile Val Phe
145          150

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<210> 7682

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 7682

Thr Gly Gly Phe Ser Gly Ser Asn Ser Lys Pro Asn Ala Lys Ser Phe
 1 5 10 15
 Thr Val Thr Thr Tyr Phe Phe Tyr Phe Phe Pro Thr Ser Ala Val Pro
 20 25 30
 Arg Phe His Pro Ala Arg Leu Ile Cys Leu Cys Asp Gly Val Cys Leu
 35 40 45
 Pro Leu Asp Leu Phe Cys Asp Lys Gly Thr Phe Gln Asp Met Lys Lys
 50 55 60
 Ile Leu Ile Ile Val Pro Asp Gly Gly Met Leu Phe Glu Ala Ala Gly
 65 70 75 80
 Ile Ala Asp Ile Leu Met Gln Ala Asn Arg Leu His Pro Asp Gly Leu
 85 90 95
 Ala Gln Pro Arg Tyr Cys Ile Ile Ile Ala Thr Thr Gln Pro His Leu
 100 105 110
 Val Ile His Gly Gln Ser Gly Leu Asn Leu Leu Ala Asp Tyr Arg Leu
 115 120 125
 Pro Glu Leu Asp Pro Arg Glu Pro Leu Asp Thr Ile Ile Thr Gly
 130 135 140
 Arg Gly Met Asn Glu Gln Glu Ser Thr Ala Val Val Asp Trp Leu His
 145 150 155 160
 Leu Ala Ala Pro His Ala Arg Arg Val Ala Ser Val Cys Gly Gly Ala
 165 170 175
 Leu Leu Leu Ala Gln Ala Gly Leu Leu Asp Gly Arg Arg Ala Thr Thr
 180 185 190
 His Trp Arg Leu Leu Glu Thr Leu Lys Thr Arg Tyr Pro Ala Val Asn
 195 200 205
 Val Glu Gly Gly Pro Leu Tyr Ile Gln Asp Gly Pro Val Trp Thr Ser
 210 215 220
 Gly Gly Val Ser Ser Gly Phe Asp Leu Thr Leu Ala Leu Val Glu Asp
 225 230 235 240
 Asp Tyr Gly Phe Thr Leu Ala Arg Asn Val Ala Gln Asp Met Val Met
 245 250 255
 Tyr Leu Arg Arg Pro Gly Gly Gln Leu Gln Phe Ser Arg Tyr Lys Leu
 260 265 270
 Glu Gln Ser Gly Ala Thr Gly Pro Val Ser Glu Leu Gln Ser Trp Ile
 275 280 285
 Leu Gln Asn Leu Thr Ala Asp Leu Cys Val Glu Arg Leu Ala Glu Arg
 290 295 300
 Val Ala Met Ser Pro Arg Asn Phe Thr Arg Val Phe Thr Arg Asp Val
 305 310 315 320
 Gly Val Pro Pro Ala Arg Tyr Val Thr Glu Ala Arg Leu Ala Ala Ala
 325 330 335
 Arg Gln Leu Leu Glu Gln Thr Ser Tyr Pro Leu Glu Val Ile Ala Glu
 340 345 350
 Lys Ser Gly Phe Gly Thr Ser Ile Asn Leu Arg Arg Val Phe Glu Lys
 355 360 365
 Gln Leu His Leu Thr Pro Gly Glu Tyr Arg Gln Arg Phe His Cys Arg
 370 375 380
 Arg Met Ala
 385

<210> 7683

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 7683

Ser Asp Pro Phe Leu Ser Phe Thr Pro Ser Asp Leu Thr Pro Lys Val

```

1           5           10           15
Thr Pro Asp Asn Thr Asp Lys Glu Cys Ile Met Val Lys Val Gly Ile
20          25          30
Asn Gly Phe Gly Arg Ile Gly Arg Asn Val Leu Arg Ala Ala Leu Gly
35          40          45
Asn Pro Asp Leu Gln Ile Val Ala Ile Asn Asp Leu Thr Asp Ser Arg
50          55          60
Thr Leu Ala His Leu Leu Lys Tyr Asp Ser Leu Leu Gly Thr Leu Pro
65          70          80
Val Pro Val Glu Ala Ala Asp Gly Ala Leu Gln Val Asp Gly Gln Arg
85          90          95
Ile Thr Val Phe Ser Glu Arg Asp Pro Ala Asn Ile Ala Trp Lys Asp
100         105         110
Ala Gly Val Glu Val Val Ile Glu Ala Thr Gly Phe Phe Thr Glu Arg
115         120         125
Glu Lys Ala Ala Val His Ile Thr Ser Gly Gly Ala Lys Arg Val Ile
130         135         140
Ile Ser Ala Pro Ala Lys Asn Asp Asp Leu Thr Val Val Met Gly Val
145         150         155
Asn His Thr Leu Tyr Asp Pro Ala Gln His Phe Val Val Ser Asn Gly
165         170         175
Ser Cys Thr Thr Asn Gly Leu Ala Pro Ala Ala Gln Val Leu His Gln
180         185         190
Gln Phe Gly Ile Glu His Gly Leu Met Asn Thr Thr His Ala Tyr Thr
195         200         205
Asn Ser Gln Ala Leu His Asp Gln Pro Glu Lys Asp Leu Arg Gly Ala
210         215         220
Arg Ala Ala Ala Leu Ser Ile Val Pro Tyr Ser Ser Gly Ala Ala Lys
225         230         235
Ala Leu Gly Lys Val Ile Pro Glu Leu Asp Gly Lys Leu Thr Gly Tyr
245         250         255
Ser Leu Arg Val Pro Val Pro Val Val Ser Ile Val Asp Leu Thr Val
260         265         270
Thr Leu Ser Arg Asn Val Thr Ala Glu Glu Val Asn Asp Ala Phe Arg
275         280         285
Gln Ala Ala Ile Ser Gly Pro Leu Lys Gly Ile Leu Gly Tyr Ser Asp
290         295         300
Glu Pro Leu Val Ser Arg Asp Tyr Gln Gly Asp Pro Arg Ser Ser Ile
305         310         315
Ile Asp Gly Leu Ser Thr Leu Val Ile Gly Gly Asn Met Val Lys Ile
325         330         335
Leu Ser Trp Tyr Asp Asn Glu Trp Gly Phe Ser Asn Arg Leu Val Asp
340         345         350
Leu Ala Val Leu Met Asp Lys Lys Gly Leu
355         360

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<210> 7684

<211> 575

<212> PRT

<213> Enterobacter cloacae

<400> 7684

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Gln Gln Arg Ser Arg Cys Ser Val Lys Thr Gly Asp Glu Pro Met Ile
1           5           10
Arg Pro Arg Ala Arg Arg Pro Ala Phe Leu Pro Leu Ala Leu Ala Gly
20          25          30
Ala Leu Leu Gly Val Thr Ala Phe Gly Tyr Ala Glu Asp Gln Pro Thr
35          40          45
Ser Gln Gln Ser Ser Pro Asp Ile Leu Leu Gly Pro Leu Phe Asn Asp
50          55          60
Val Gln Ser Ala Lys Leu Phe Pro Asp Gln Lys Thr Phe Ala Asp Ala

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65					70					75					80
Val	Pro	Lys	Ser	Asp	Pro	Leu	Met	Ile	Leu	Ala	Asp	Tyr	Arg	Met	Gln
				85					90					95	
His	Thr	Gln	Ser	Gly	Phe	Asp	Leu	Arg	His	Phe	Val	Glu	Met	Asn	Phe
			100					105					110		
Ile	Leu	Pro	Lys	Glu	Gly	Glu	Lys	Tyr	Val	Pro	Pro	Glu	Gly	Gln	Ser
		115					120					125			
Leu	Arg	Glu	His	Ile	Asp	Asp	Leu	Trp	Pro	Val	Leu	Thr	Arg	Thr	Thr
	130				135					140					
Asp	Lys	Ala	Asn	Lys	Trp	Asp	Ser	Leu	Leu	Pro	Leu	Pro	Lys	Pro	Tyr
145					150					155				160	
Val	Val	Pro	Gly	Gly	Arg	Phe	Arg	Glu	Val	Tyr	Tyr	Trp	Asp	Ser	Tyr
			165					170					175		
Phe	Thr	Met	Leu	Gly	Leu	Ala	Glu	Ser	Gly	His	Trp	Asp	Lys	Ile	Gly
		180						185				190			
Asp	Met	Val	Asp	Asn	Phe	Ala	Tyr	Glu	Leu	Asp	Thr	Trp	Gly	His	Ile
	195						200					205			
Pro	Asn	Gly	Asn	Arg	Thr	Tyr	Tyr	Leu	Ser	Arg	Ser	Gln	Pro	Pro	Phe
	210					215					220				
Phe	Ser	Leu	Met	Val	Glu	Leu	Leu	Ala	Thr	His	Asp	Ser	Asp	Ala	Leu
225					230					235				240	
Lys	Lys	Tyr	Arg	Pro	Gln	Met	Glu	Lys	Glu	Tyr	Ala	Tyr	Trp	Met	Glu
			245						250					255	
Gly	Ala	Asp	Gly	Leu	Gln	Pro	Gly	Gln	Ala	Asn	Lys	Arg	Val	Val	Lys
		260						265				270			
Leu	Asp	Asp	Gly	Ser	Ile	Leu	Asn	Arg	Tyr	Trp	Asp	Asp	Arg	Asp	Thr
	275					280					285				
Pro	Arg	Pro	Glu	Ser	Trp	Leu	Asp	Asp	Val	Thr	Thr	Ala	Lys	Asn	Asn
	290					295					300				
Pro	Asn	Arg	Pro	Ala	Thr	Glu	Ile	Tyr	Arg	Asp	Leu	Arg	Ser	Ala	Ala
305					310					315				320	
Ala	Ser	Gly	Trp	Asp	Phe	Ser	Ser	Arg	Trp	Met	Asp	Asp	Pro	Gln	Lys
			325						330					335	
Leu	Gly	Thr	Ile	Arg	Thr	Thr	Ser	Ile	Val	Pro	Val	Asp	Leu	Asn	Ala
			340					345				350			
Leu	Met	Phe	Lys	Met	Glu	Lys	Leu	Leu	Ala	Arg	Ala	Ser	Gln	Glu	Asp
		355					360					365			
Gly	Asp	Thr	Ala	Ser	Ala	Ser	Lys	Tyr	Asp	Ala	Leu	Ala	Ser	Ala	Arg
	370					375				380					
Gln	Lys	Ala	Met	Glu	Ser	His	Leu	Trp	Asn	Asp	Lys	Glu	Gly	Trp	Tyr
385					390					395				400	
Ala	Asp	Tyr	Asp	Leu	Lys	Thr	Arg	Lys	Val	Arg	Asn	Gln	Leu	Thr	Ala
			405					410						415	
Ala	Ala	Leu	Phe	Pro	Leu	Tyr	Val	Lys	Ala	Ala	Ser	Gln	Asp	Arg	Ala
		420						425				430			
Asp	Lys	Val	Ala	Ala	Ala	Ala	Ser	Ser	Arg	Leu	Leu	Lys	Pro	Gly	Gly
		435					440					445			
Ile	Ser	Thr	Thr	Thr	Ile	Asn	Ser	Gly	Gln	Gln	Trp	Asp	Ala	Pro	Asn
	450					455					460				
Gly	Trp	Ala	Pro	Leu	Gln	Trp	Val	Ala	Val	Glu	Gly	Leu	Gln	Asn	Tyr
465					470					475				480	
Gly	Gln	Gln	Lys	Val	Ala	Met	Asp	Val	Thr	Trp	Arg	Phe	Leu	Lys	Asn
			485						490					495	
Val	Gln	His	Thr	Tyr	Asp	Arg	Glu	Lys	Lys	Leu	Val	Glu	Lys	Tyr	Asp
		500						505				510			
Val	Ser	Ser	Thr	Gly	Thr	Gly	Gly	Gly	Gly	Glu	Tyr	Pro	Leu	Gln	
	515					520				525					
Asp	Gly	Phe	Gly	Trp	Ser	Asn	Gly	Val	Thr	Leu	Arg	Met	Leu	Asp	Met
	530					535				540					
Val	Cys	Pro	Lys	Glu	Lys	Pro	Cys	Asp	Thr	Val	Pro	Glu	Asn	Gln	Pro
545					550					555				560	

Ala Ala Asn Asp Asp Val Ala Pro Ala Lys Gln Ala Ala Gln
565 570 575

<210> 7685

<211> 575

<212> PRT

<213> Enterobacter cloacae

<400> 7685

Thr Arg Ser Cys Val Met Pro Gly Ala Phe Pro Thr Glu Val Arg Gly
1 5 10 15
Ser Thr Ser Tyr Met Ser Glu Tyr Lys Ile Arg Gly Phe Asn Val Asp
20 25 30
Gln Glu Phe Tyr Asn Gly Leu Gln Leu Pro Tyr Asn Val Thr Gly Asn
35 40 45
Thr Lys Ala Arg Ile Asp Pro Leu Leu Ile Glu Ser Val Asp Ile Leu
50 55 60
Lys Gly Pro Ser Ser Val Leu Tyr Gly Gly Ser Pro Gly Gly Leu
65 70 75 80
Val Asn Ile Gln Ser Lys Lys Pro Gln Lys Glu Ala Lys Thr Glu Leu
85 90 95
Gly Phe Asn Thr Gly Asn Arg Asn Leu Lys Glu Gly Tyr Leu Asp Ser
100 105 110
Thr Gly Gln Ile Ala Asn Ser Asp Trp Asn Tyr Arg Leu Leu Gly Lys
115 120 125
Ala Thr Glu Ser Asp Glu Gln Ala His Thr Thr Arg Tyr Glu Asn Tyr
130 135 140
Leu Val Ala Pro Ser Val Thr Trp Gln Pro Asp Asp Lys Thr Arg Leu
145 150 155 160
Thr Ile Asp Ala Leu Ala Gln Asn Thr Pro Ser Leu Thr Pro Ser Asp
165 170 175
Pro Met Pro Leu Ser Tyr Leu Arg Ser Lys Tyr Ala Asp Arg Arg Asp
180 185 190
Tyr Ala Gly Asp Glu Trp Ser Gly Phe Lys Gln Arg Gln Trp Met Leu
195 200 205
Gly Tyr Ser Phe Glu His Glu Phe Asp Ser Gly Trp Gly Phe Asn Gln
210 215 220
Lys Ala Arg Tyr Phe Asp Val Asp Thr His Gln Arg Ser Ala Tyr Ser
225 230 235 240
Thr Gly Thr Gly Ser Glu Val Tyr Gln Leu Asn Arg Phe Ala Tyr Thr
245 250 255
Thr Asp Glu Asp Leu Gln Ser Phe Asn Ile Asp Asn Gln Val Thr Arg
260 265 270
Thr Val Ala Leu Gly Asp Trp Lys His His Leu Leu Ala Gly Phe Asp
275 280 285
Tyr Gln Lys Leu Asn Ser His Phe His Tyr Arg Tyr Ala Ser Ser Thr
290 295 300
Pro Gly Ile Asp Met Arg His Pro Asp His Ser Gln Ile Asp Asn Asp
305 310 315 320
Ala Leu Gly Leu Glu Thr Ala Gln Lys Asn Arg Leu Ser Tyr Gln Gln
325 330 335
Asn Gly Tyr Tyr Leu Gln Asp Gln Ile Ala Phe Gly Gly Leu Asn Val
340 345 350
Leu Ala Ser Leu Arg Tyr Asp Asp Tyr Arg Ser Val Thr Thr Asn Tyr
355 360 365
Leu Gln Asn Gly Asp Lys Ala Trp Val Ser Gln Asp Arg Leu Thr Lys
370 375 380
Arg Leu Gly Ala Leu Tyr Ala Phe Asp Asn Gly Leu Ser Pro Phe Ile
385 390 395 400
Ser Tyr Ser Glu Gly Phe Ala Pro Val Ser Pro Gln Gly Thr Leu Thr
405 410 415

Ala Lys Asp Val Lys Pro Thr Thr Ser Lys Gln Val Glu Gly Gly Val
 420 425 430
 Lys Tyr Leu Leu Ala Glu Tyr Ala Thr Thr Phe Thr Ala Ser Val Phe
 435 440 445
 Asn Ile Arg Gln Lys Asn Val Val Thr Ser Asp Pro Gly Phe Leu Asn
 450 455 460
 Tyr Arg Gln Thr Gly Glu Val Glu Ser Lys Gly Ala Glu Leu Ser Ala
 465 470 475 480
 Met Ser Arg Pro Thr Asp Asn Leu Thr Leu Ile Ala Asn Tyr Ala Tyr
 485 490 495
 Thr His Ala Ile Asn Thr Glu Asp Asp Lys Tyr Gln Gly Lys Gly Pro
 500 505 510
 Thr Gln Val Pro Glu Asn Ala Phe Asn Leu Trp Gly Asp Tyr Thr Phe
 515 520 525
 Asp Ser Thr Pro Leu Lys Arg Gly Asn Ala Gly Gly Arg Arg Thr Leu
 530 535 540
 His Arg Ala Asp Gly Asp Leu Ala Ser Gln Arg Arg Arg Gln Ala Gly
 545 550 555 560
 Arg Tyr Asp Ala Val Arg Ser Gly Gly Ile Leu Pro His Gly
 565 570 575

<210> 7686

<211> 1222

<212> PRT

<213> Enterobacter cloacae

<400> 7686

Gln Tyr Pro Gly Arg Ala Glu Arg Ile Ala Ala Arg Lys Leu Arg Met
 1 5 10 15
 Leu Thr Thr Leu Leu Ser Ile Leu Thr Asn Arg Ile Leu Trp Ser Phe
 20 25 30
 Leu Gly Val Thr Ala Leu Ala Ala Val Ile Trp Met Ile Gly Pro Leu
 35 40 45
 Leu Ser Ile Val Asp Thr Arg Pro Leu Glu Ser Glu Gln Asn Arg Val
 50 55 60
 Ile Ser Ile Ala Val Val Tyr Leu Ile Trp Ala Gln Ser His Ile Leu
 65 70 75 80
 Pro Arg Leu Tyr Asn Ala Trp Leu Asn Arg Lys Leu Met Asp Lys Leu
 85 90 95
 Asn Glu Asn Thr Thr Ser Pro Glu Ala Ala Asp Pro Gln Lys Arg Leu
 100 105 110
 Asn Ser Glu Glu Gln Ile Leu Ala Gly Arg Phe Asp Glu Ala Ala Gln
 115 120 125
 Met Leu Lys Lys Ala His Phe Ser Lys Ala Gly His Gly Ala Gln Trp
 130 135 140
 Thr Gln Arg Phe Ser Thr Gln Tyr Leu Tyr Gln Leu Pro Trp Tyr Val
 145 150 155 160
 Ile Ile Gly Ala Pro Gly Ser Gly Lys Thr Thr Ala Leu Ala Asn Ser
 165 170 175
 Gly Leu Gln Phe Pro Leu Ala Asp Arg Phe Gly Lys Thr Ala Leu Arg
 180 185 190
 Gly Ile Gly Gly Thr Arg Asn Cys Asp Trp Trp Phe Thr Asn Glu Ala
 195 200 205
 Val Leu Leu Asp Thr Ala Gly Arg Tyr Thr Thr Gln Glu Ser Glu Gln
 210 215 220
 Val Gln Asp Ala Gly Glu Trp Leu Glu Phe Ile Asn Leu Leu Arg Lys
 225 230 235 240
 Tyr Arg Arg Arg Gln Pro Ile Asn Gly Val Ile Thr Ile Ser Ile
 245 250 255
 Ser Asp Leu Leu Ser Gln Ser Ala Glu Ala Ser Arg Gln Gln Ala Val
 260 265 270

Asn Leu Arg Gln Arg Leu Ser Glu Leu His Glu Gln Leu Gly Ile Arg
 275 280 285
 Phe Pro Val Tyr Val Met Val Thr Lys Ala Asp Leu Leu Lys Gly Phe
 290 295 300
 Arg Ala Trp Phe Ala Asp Tyr Asp Lys Ala Gln Arg Asp Gln Ile Trp
 305 310 315 320
 Gly Phe Thr Leu Pro Trp Glu Gln Thr Lys His Ala Asp Tyr Asp Leu
 325 330 335
 Met Gly Asn Phe His Gln Glu Phe Ser Leu Leu Gln Gln Arg Leu Asp
 340 345 350
 Ala Gly Leu Pro Glu Thr Met Leu Lys Glu His Asp Ala Lys Thr Arg
 355 360 365
 Ala Glu Ala Tyr Leu Phe Pro Gln Glu Phe Ala Ala Leu Arg Pro Leu
 370 375 380
 Leu Ala Asp Tyr Leu Ser Thr Val Phe Ala Arg Ser Asn Phe Glu Thr
 385 390 395 400
 Glu Phe Ser Pro Arg Gly Ile Tyr Phe Ala Ser Gly Thr Gln Glu Gly
 405 410 415
 Met Pro Phe Asp Arg Val Met Gly Glu Leu Asn Arg Ala Leu Ser Leu
 420 425 430
 Pro Glu Gly Glu Glu Ser Thr Arg Trp Asp Ser Val Ser Lys Glu Ala
 435 440 445
 Pro Ile Pro Gly Ala Lys Gly Gln Ser Phe Phe Ile Lys Asn Leu Leu
 450 455 460
 Gln Asn Val Ile Phe Gln Glu Ala Gly Ile Ala Gly Glu Asn Arg Trp
 465 470 475 480
 Trp Glu Leu Arg Asn Arg Ala Val Met Trp Ser Gly Tyr Ala Ala Leu
 485 490 495
 Leu Ala Leu Leu Val Ile Leu Gly Gly Leu Trp Leu Thr Ser Tyr Ala
 500 505 510
 Lys Asn Lys Ala Tyr Leu Glu Glu Val Asp Ala Lys Val Pro Met Leu
 515 520 525
 Glu Gln Gln Ser Lys Ala Leu Gln Asn Gln Pro Gln Arg Asp Leu Phe
 530 535 540
 Ala Leu Leu Pro Leu Leu Asn Ser Leu Val Asp Leu Pro Lys Ser Asp
 545 550 555 560
 Ala Phe Asp Val Asn Asp Pro Pro Val Ser Arg Arg Met Gly Leu Tyr
 565 570 575
 Arg Gly Asp Asp Val Ser Asp Ala Ser Gln Ser Leu Tyr Gln Lys Ala
 580 585 590
 Leu Asp Gln Met Leu Leu Pro Ala Val Ala Met His Ile Thr Thr Trp
 595 600 605
 Leu Arg Asn Asp Asn Gly Ser Asp Val Glu Tyr Ser Tyr Glu Ala Leu
 610 615 620
 Lys Ala Tyr Gln Met Leu Tyr Gln Pro Lys His Tyr Asp Gly Lys Phe
 625 630 635 640
 Leu His Ser Trp Val Met Leu Asn Leu Gln Arg Asn Leu Pro Gln Asn
 645 650 655
 Val Thr Gln Ala Gln Leu Gln Glu Leu Glu Trp His Leu Thr Gln Leu
 660 665 670
 Leu Glu Pro Lys Ile Gln Ala Ser Pro Tyr Ala Gln Asp Glu Asp Leu
 675 680 685
 Val Ala Arg Glu Arg Ala Leu Ile Asn Gln Gln Pro Leu Ser Thr Arg
 690 695 700
 Val Tyr Gly Arg Leu Lys Arg Leu Leu Glu His Asp Glu Asn Leu Lys
 705 710 715 720
 Pro Val Ser Leu Ser Asp Leu Gly Gly Pro Gln Ser Glu Leu Val Phe
 725 730 735
 Ser Arg Lys Ser Gly Lys Pro Val Ser Glu Gly Val Pro Gly Leu Tyr
 740 745 750
 Thr Pro Asp Gly Tyr Trp Lys Ser Phe Asn Asp Gln Ile Asp Ser Val

<210> 7687

<211> 90

<212> PRT

<213> *Enterobacter cloacae*

<400> 7687

Lys Gly Val Thr Leu Gly Gly Gly Ala Arg Tyr Thr Gly Pro Met Glu
 1 5 10 15
 Ile Ser Pro Ala Asn Asp Ala Gly Lys Leu Gly Gly Thr Thr Gln Tyr
 20 25 30
 Asp Leu Ala Ala Ser Tyr Arg Met Gly Glu Leu Ala Pro Ser Leu Glu
 35 40 45
 Gly Leu Thr Leu Lys Ala Ser Ala Gln Asn Val Thr Asn Lys Glu Thr
 50 55 60
 Leu Thr Cys Tyr Asp Ala Thr Asn Cys Trp Ile Gly Arg Asp Arg Thr
 65 70 75 80
 Phe Gln Val Gly Ala Ser Tyr Ser Phe
 85 90

<210> 7688

<211> 423

<212> PRT

<213> *Enterobacter cloacae*

<400> 7688

Pro Asp Arg Ile Ile Lys Arg Ala Leu Asn Met Gln Glu Arg Gln Asp
 1 5 10 15
 Thr Gly Ser Asp Ala Val Phe Thr Gly Ala Ser Gly Asn Asn Gln Leu
 20 25 30
 Val Ala Ala Ala Asn Pro Leu Leu Asn Ala Ile Pro Gln Ile Arg His
 35 40 45
 Ser Val Ser His Asp Asp Gln Val Gly Leu Arg Gln Arg Leu Ile Asp
 50 55 60
 Glu Ile Arg Arg Phe Glu Val Arg Cys Gln Gln Ala Gly Leu Pro Tyr
 65 70 75 80
 Glu Val Ile Val Gly Ala Arg Tyr Cys Leu Cys Thr Ala Leu Asp Glu
 85 90 95
 Ala Ala Ala Leu Thr Pro Trp Gly Ser Ser Gly Val Trp Ser Ser Asn
 100 105 110
 Gly Leu Leu Val Thr Phe His Asn Glu Thr Trp Gly Gly Glu Lys Phe
 115 120 125
 Phe Gln Leu Leu Ala Arg Leu Ser Gln Asn Pro Arg Glu His Ile Leu
 130 135 140
 Leu Leu Glu Met Ile Asn Tyr Cys Leu Leu Leu Gly Phe Glu Gly Arg
 145 150 155 160
 Tyr Arg Val Leu Asp Asn Gly Arg Thr Gln Leu Glu Thr Ile Lys Gln
 165 170 175
 Arg Leu Trp Gln Met Ile Arg Gly Val Arg Gly Ser Tyr Pro Pro Pro
 180 185 190
 Leu Ser Pro His Pro Glu Asp Arg Pro Val Leu Arg Lys Leu Trp Arg
 195 200 205
 Pro Met Ile Pro Leu Trp Ala Cys Val Ala Leu Val Gly Phe Ile Ala
 210 215 220
 Cys Leu Phe Tyr Ile Val Leu Asn Trp Arg Leu Gly Asp Asn Thr Ser
 225 230 235 240
 Pro Val Leu Ala Lys Ile Tyr Gln Ser Gln Leu Pro Glu Thr Thr Ile
 245 250 255
 Gln Gln Pro Ala Arg Gln Leu Pro Ala Val Leu Asn Leu Arg Gly Phe
 260 265 270
 Leu Lys Pro Glu Ile Asp Ala Gly Leu Val Ala Val Lys Asp Glu Ala
 275 280 285
 Asp Arg Ser Val Val Ile Leu Lys Gly Asp Gly Leu Phe Ala Ser Ala

290 295 300
 Ser Thr Val Val Arg Asp Arg Tyr Glu Pro Val Ile Asp Arg Ile Ala
 305 310 315 320
 Gln Ala Met Asn Asn Val Ser Gly Lys Ile Leu Val Val Gly Tyr Ser
 325 330 335
 Asp Asn Val Pro Ile Arg Ser Ala Arg Phe Ala Ser Asn Tyr Glu Leu
 340 345 350
 Ser Leu Glu Arg Ala Arg Ser Val Gln Lys Gln Leu Gln Gly Ser Leu
 355 360 365
 Ser Gln Pro Glu Arg Val Lys Ala Glu Gly Arg Gly Glu Ile Asn Pro
 370 375 380
 Val Ala Pro Asn Thr Thr Pro Glu Asn Arg Ala Arg Asn Arg Arg Val
 385 390 395 400
 Glu Ile Thr Leu Leu Val Ser Pro Asp Asn Thr Gln Ala Glu Leu Asn
 405 410 415
 Gly Leu Pro Gln Gly Asn
 420

<210> 7689

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 7689

Ser Arg Arg Lys Lys Ser Val Trp Trp Ile Thr Ala Cys Met Thr Ala
 1 5 10 15
 Ile Val Asn Phe Ala Pro Leu Arg Ala Ile Pro Val Lys Gly Val Asn
 20 25 30
 Arg Trp Ser Ser Thr Val Arg Thr Met Arg Ser Phe Leu Lys Arg Thr
 35 40 45
 Leu Cys Ala Gln Ser Arg Ser Thr Pro Leu Leu Asn Phe Ser Thr Gly
 50 55 60
 Ile Thr Asp Tyr Cys Phe Pro Pro Glu Val Glu Ile Pro Met Tyr Gln
 65 70 75 80
 Val Val Ala Ser Asp Leu Asp Gly Thr Leu Leu Ser Pro Asp His Thr
 85 90 95
 Leu Ser Pro Tyr Ala Lys Glu Thr Leu Lys Leu Leu Thr Ala Arg Gly
 100 105 110
 Val Asn Phe Val Phe Ala Thr Gly Arg His His Val Asp Val Gly Gln
 115 120 125
 Ile Arg Asp Asn Leu Glu Ile Lys Ser Tyr Met Ile Thr Ser Asn Gly
 130 135 140
 Ala Arg Val His Asp Thr Asp Gly Asn Leu Ile Phe Thr His Asn Leu
 145 150 155
 Asp Arg Asp Ile Ala Thr Asp Leu Phe Gly Ile Val His Asn Asn Pro
 165 170 175
 Asp Ile Val Thr Asn Val Tyr Arg Asp Asp Glu Trp Phe Met Asn Arg
 180 185 190
 His Arg Pro Glu Glu Met Arg Phe Phe Lys Glu Ala Val Phe Gln Tyr
 195 200 205
 Ser Leu Tyr Glu Pro Gly Leu Leu Glu Pro Glu Gly Ile Ser Lys Val
 210 215 220
 Phe Phe Thr Cys Val Asn His Glu Glu Leu Leu Pro Leu Glu Gln Ala
 225 230 235
 Ile Asn Ala Arg Trp Gly Asp Arg Val Asn Val Ser Phe Ser Thr Leu
 245 250 255
 Thr Cys Leu Glu Val Met Ala Gly Gly Val Ser Lys Gly His Ala Leu
 260 265 270
 Glu Ala Val Ala Lys Arg Leu Gly Phe Asp Leu Lys Asp Cys Ile Ala
 275 280 285
 Phe Gly Asp Gly Met Asn Asp Ala Glu Met Leu Ser Met Ala Gly Lys

290 295 300
 Gly Cys Ile Met Gln Asn Ala His Gln Arg Leu Lys Asp Leu His Pro
 305 310 315 320
 Glu Leu Glu Val Ile Gly Thr Asn Ala Asp Asn Ala Val Pro Lys Tyr
 325 330 335
 Leu Arg Lys Leu Phe Leu Glu
 340

<210> 7690

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 7690

Arg Arg Val Ser Ser Arg Cys Ile Val Val Thr Ser Ser Glu Trp Arg
 1 5 10 15
 Phe Pro Val Pro Ile Lys Pro Leu Val Thr Ala Gly Ile Glu Asn Val
 20 25 30
 Leu Asn Ala Phe Leu Tyr Arg Ala Pro Ala Leu Lys Thr Ala Arg Gln
 35 40 45
 Arg Leu Asn Gly Lys Val Leu Arg Ile Val Leu Lys Glu Phe Ser Thr
 50 55 60
 Pro Leu Val Leu Val Phe Ser Glu Arg Gln Leu Asp Val Leu Gly Glu
 65 70 75 80
 Trp Glu Gly Glu Ala Asp Cys Ser Val Ile Thr His Met Ser Val Leu
 85 90 95
 Pro Lys Leu Arg Asp Arg Gln Gln Met Thr Ala Leu Ile Arg Ser Gly
 100 105 110
 Glu Leu Glu Val Glu Gly Asp Ile Gln Val Val Gln Asn Phe Val Ala
 115 120 125
 Leu Ser Asp Gln Ala Glu Phe Asp Pro Ala Glu Leu Ala Pro Tyr
 130 135 140
 Ile Gly Asp Ile Ala Ala Glu Gly Ile Ser Lys Thr Leu Arg Thr Gly
 145 150 155 160
 Ser Ala Phe Leu Arg Lys Gly Leu Leu Arg Gln Gln Arg Tyr Ala Ala
 165 170 175
 Glu Val Leu Thr Glu Glu Trp Arg Met Ala Pro Gly Pro Leu Glu Val
 180 185 190
 Ala Trp Phe Ala Glu Glu Thr Ala Ala Val Glu Arg Ala Val Asp Ala
 195 200 205
 Leu Thr Lys Arg Leu Glu Lys Leu Glu Gly Lys
 210 215 220

<210> 7691

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 7691

Leu Ile Ile Tyr His Trp Gly Thr Arg Met Gly Gly Ile Ser Ile Trp
 1 5 10 15
 Gln Leu Val Ile Ile Ala Val Ile Val Val Leu Leu Phe Gly Thr Lys
 20 25 30
 Lys Leu Gly Ser Ile Gly Ser Asp Leu Gly Ala Ser Ile Lys Gly Phe
 35 40 45
 Lys Lys Ala Met Ser Asp Asp Glu Asn Lys Gln Glu Lys Thr Ser Gln
 50 55 60
 Asp Ala Asp Phe Thr Ala Lys Ser Ile Ala Asp Lys Gln Asp Glu Ala
 65 70 75 80
 Lys Lys Glu Glu Ala Lys Arg His Asp Lys Glu Gln Val
 85 90

<210> 7692
 <211> 182
 <212> PRT
 <213> Enterobacter cloacae

<400> 7692
 Phe Val Phe Asp Ile Gly Phe Gly Glu Leu Leu Val Phe Val Ile
 1 5 10 15
 Gly Leu Ile Val Leu Gly Pro Gln Arg Leu Pro Val Ala Val Lys Thr
 20 25 30
 Val Val Gly Trp Val Arg Ala Leu Arg Ser Leu Ala Thr Thr Val Gln
 35 40 45
 Asn Glu Leu Ala Gln Glu Leu Lys Leu Gln Glu Phe Gln Asp Ser Leu
 50 55 60
 Lys Lys Val Glu Lys Ala Ser Met Asp Asn Leu Thr Pro Glu Leu Lys
 65 70 75 80
 Ala Ser Met Asp Glu Leu Arg Glu Ala Ala Glu Ser Met Lys Arg Ser
 85 90 95
 Tyr Ser Ile Asn Asp Pro Glu Lys Ala Ser Asp Glu Ala Asn Thr Ile
 100 105 110
 His Asn Pro Val Val Lys Gly Ser Glu Glu Gln Arg Glu Gly Val Thr
 115 120 125
 Pro Ser Ser Ala Glu His Gln Ala Ala Ser Pro Glu Gln Ser Pro Gln
 130 135 140
 Glu Pro Glu Val Lys Lys Gln Val Pro Pro Glu Glu Pro Val Val Lys
 145 150 155 160
 Thr Ala Glu Val Lys Pro Ala Ala Pro Val Ser Glu Ser Ser Pro Ser
 165 170 175
 Ser Ser Asp Lys Ala
 180

<210> 7693
 <211> 174
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (174)

<400> 7693
 Lys Leu Tyr Leu Ala Arg Leu Thr Trp Thr Ile Leu Val Ser Val Gly
 1 5 10 15
 His Ala Cys Ala Gly Val Arg Phe Leu Gly Glu Arg Ser Asn Lys Met
 20 25 30
 Ala Thr Gly Lys Ser Cys Ser Arg Trp Phe Ala Pro Ile Ala Ala Leu
 35 40 45
 Leu Met Val Val Ser Leu Ser Gly Cys Phe Asp Lys Glu Gly Asp Gln
 50 55 60
 Arg Lys Ala Phe Ile Asp Phe Leu Gln Asn Thr Val Met Arg Ser Gly
 65 70 75 80
 Glu Arg Leu Pro Thr Leu Thr Ala Asp Gln Lys Lys Gln Phe Gly Pro
 85 90 95
 Phe Val Ser Asp Tyr Ala Ile Leu Tyr Gly Tyr Ser Gln Gln Val Ser
 100 105 110
 Gln Ala Met Asp Ser Gly Ile Arg Pro Val Val Asp Ser Val Asn Ala
 115 120 125
 Ile Arg Val Pro Gln Asp Tyr Met Thr Gln Arg Glu Pro Leu Arg Gln
 130 135 140
 Ser Asn Gly Ala Leu Gly Val Leu Ser Gln Gln Leu Gln Asn Ala Gln

145 150 155 160
 Met Glu Ala Asp Ala Phe Arg Pro Ala Leu Lys Gln Gly Xaa
 165 170

<210> 7694
 <211> 304
 <212> PRT
 <213> Enterobacter cloacae

<400> 7694
 Glu Thr Ser Ile Val Ala Leu Leu Ile Ile Thr Thr Ile Leu Trp Ala
 1 5 10 15
 Phe Ser Phe Ser Leu Ile Gly Glu Tyr Leu Ala Gly Ser Val Asp Ser
 20 25 30
 Tyr Phe Ser Val Leu Met Arg Val Gly Leu Ala Ala Leu Val Phe Leu
 35 40 45
 Pro Phe Leu Arg Thr Arg Gly Gln Ser Leu Lys Thr Ile Leu Leu Tyr
 50 55 60
 Met Leu Val Gly Ala Met Gln Leu Gly Ile Met Tyr Leu Phe Ser Phe
 65 70 75 80
 Arg Ala Tyr Val Tyr Leu Ser Val Ser Glu Phe Leu Leu Phe Thr Val
 85 90 95
 Leu Thr Pro Leu Tyr Ile Thr Leu Ile Tyr Asp Leu Leu Ser Arg Arg
 100 105 110
 Arg Leu Arg Trp Gly Tyr Leu Leu Ser Ala Ala Leu Ala Val Ile Gly
 115 120 125
 Ala Ala Ile Ile Arg Tyr Asp Lys Val Ser Asp His Phe Trp Thr Gly
 130 135 140
 Leu Met Phe Val Gln Leu Ala Asn Ile Ser Phe Ala Ile Gly Met Val
 145 150 155 160
 Gly Tyr Lys Arg Leu Met Glu Thr Arg Pro Met Pro Gln His Asn Ala
 165 170 175
 Phe Ala Trp Phe Tyr Met Gly Ala Ala Ile Val Ala Ile Ala Ala Trp
 180 185 190
 Phe Met Leu Gly Asn Pro Gln Lys Leu Pro Thr Thr Pro Val Gln Trp
 195 200 205
 Ser Val Leu Val Trp Leu Gly Val Val Ala Ser Gly Leu Gly Tyr Phe
 210 215 220
 Met Trp Asn Tyr Gly Ala Thr Gln Val Asp Ala Gly Thr Leu Gly Ile
 225 230 235 240
 Met Asn Asn Val His Val Pro Ala Gly Leu Leu Val Asn Leu Ala Ile
 245 250 255
 Trp Gln Glu Gln Pro His Trp Pro Ser Phe Leu Ile Gly Gly Thr Val
 260 265 270
 Ile Leu Ala Ser Leu Trp Val His Arg Arg Trp Val Ala Pro Arg Ser
 275 280 285
 Ala Gln Thr Glu Asp Gly Arg Thr Arg Gly Ser Ala Leu Ser Glu
 290 295 300

<210> 7695
 <211> 763
 <212> PRT
 <213> Enterobacter cloacae

<400> 7695
 Ile Thr Asn Phe Tyr Lys Gly Tyr Ala Met Thr Ile Arg Thr His Thr
 1 5 10 15
 Leu Gly Phe Pro Arg Val Gly Leu Arg Arg Glu Leu Lys Lys Ala Gln
 20 25 30
 Glu Ser Tyr Trp Ala Gly Asn Ala Thr Arg Glu Glu Leu Leu Ala Val
 35 40 45

Gly Arg Glu Leu Arg Ala Arg His Trp Asp Gln Gln Lys Gln Ala Gly
 50 55 60
 Val Asp Leu Leu Pro Val Gly Asp Phe Ala Trp Tyr Asp His Val Leu
 65 70 75 80
 Thr Thr Ser Leu Leu Leu Gly Asn Val Pro Ala Arg His Gln Asn Asn
 85 90 95
 Asp Gly Ser Val Asp Ile Asp Thr Leu Phe Arg Ile Gly Arg Gly Arg
 100 105 110
 Ala Pro Thr Gly Glu Pro Ala Ala Ala Ala Glu Met Thr Lys Trp Phe
 115 120 125
 Asn Thr Asn Tyr His Tyr Met Val Pro Glu Phe Val Lys Gly Gln Gln
 130 135 140
 Phe Lys Leu Thr Trp Thr Gln Leu Leu Asp Glu Val Asp Glu Ala Leu
 145 150 155 160
 Ala Leu Gly His Gln Val Lys Pro Val Leu Leu Gly Pro Val Thr Tyr
 165 170 175
 Leu Trp Leu Gly Lys Val Lys Gly Glu Gln Phe Asp Arg Leu Ser Leu
 180 185 190
 Leu Asn Asp Ile Leu Pro Val Tyr Lys Gln Val Leu Ile Glu Leu Gly
 195 200 205
 Lys Arg Gly Ile Gln Trp Val Gln Ile Asp Glu Pro Ala Leu Val Leu
 210 215 220
 Glu Leu Pro Gln Ala Trp Leu Asp Ala Phe Lys Pro Ala Tyr Asp Ala
 225 230 235 240
 Leu Thr Gly Gln Val Lys Leu Leu Leu Thr Thr Tyr Phe Glu Gly Val
 245 250 255
 Thr Pro Asn Leu Asp Thr Ile Thr Ala Leu Pro Val Gln Gly Leu His
 260 265 270
 Val Asp Leu Val His Gly Lys Asp Asp Val Ala Glu Leu His Lys Arg
 275 280 285
 Leu Pro Ala Glu Trp Leu Leu Ser Ala Gly Leu Val Asn Gly Arg Asn
 290 295 300
 Val Trp Arg Ala Asp Leu Thr Glu Lys Tyr Ala Gln Ile Lys Asp Ile
 305 310 315 320
 Val Gly Lys Arg Glu Leu Trp Ile Ala Ser Ser Cys Ser Leu Leu His
 325 330 335
 Ser Pro Ile Asp Leu Ser Val Glu Thr Arg Leu Asp Pro Glu Val Lys
 340 345 350
 Ser Trp Phe Ala Phe Ala Leu Gln Lys Cys Glu Glu Leu Ala Leu Leu
 355 360 365
 Arg Asp Ala Leu Asn Ser Gly Asp Thr Ala Ala Ile Thr His Trp Ser
 370 375 380
 Ala Pro Ile Gln Ala Arg Arg His Ser Thr Arg Val His Asn Pro Ala
 385 390 395 400
 Val Glu Lys Arg Leu Ala Ala Ile Thr Ala Arg Asp Ser Gln Arg Gln
 405 410 415
 Ser Pro Tyr Glu Val Arg Ala Glu Ala Gln Arg Ala Arg Phe Asn Leu
 420 425 430
 Pro Ala Trp Pro Thr Thr Thr Ile Gly Ser Phe Pro Gln Thr Thr Glu
 435 440 445
 Ile Arg Gly Leu Arg Leu Asp Phe Lys Lys Gly Asn Leu Asp Ala Asn
 450 455 460
 His Tyr Arg Thr Gly Ile Ala Glu His Ile Lys Gln Ala Ile Val Glu
 465 470 475 480
 Gln Glu Arg Leu Gly Leu Asp Val Leu Val His Gly Glu Ala Glu Arg
 485 490 495
 Asn Asp Met Val Glu Tyr Phe Gly Glu His Leu Asp Gly Phe Val Phe
 500 505 510
 Thr Gln Asn Gly Trp Val Gln Ser Tyr Gly Ser Arg Cys Val Lys Pro
 515 520 525
 Pro Val Val Ile Gly Asp Val Ser Arg Pro Glu Ala Ile Thr Val Glu

530 535 540
 Trp Ala Lys Tyr Ala Gln Ser Leu Thr Asp Lys Pro Val Lys Gly Met
 545 550 555 560
 Leu Thr Gly Pro Val Thr Ile Leu Cys Trp Ser Phe Pro Arg Glu Asp
 565 570 575
 Val Ser Arg Glu Thr Ile Ala Lys Gln Ile Ala Leu Ala Leu Arg Asp
 580 585 590
 Glu Val Ala Asp Leu Glu Ala Ala Gly Ile Gly Ile Ile Gln Ile Asp
 595 600 605
 Glu Pro Ala Leu Arg Glu Gly Leu Pro Leu Arg Arg Ser Asp Trp Asp
 610 615 620
 Ala Tyr Leu Gln Trp Gly Val Glu Ala Phe Arg Leu Asn Ala Ala Val
 625 630 635 640
 Ala Lys Asp Asp Thr Gln Ile His Thr His Met Cys Tyr Cys Glu Phe
 645 650 655
 Asn Asp Ile Met Asp Ser Ile Ala Ala Leu Asp Ala Asp Val Ile Thr
 660 665 670
 Ile Glu Thr Ser Arg Ser Asp Met Glu Leu Leu Glu Ser Phe Glu Glu
 675 680 685
 Phe Asp Tyr Pro Asn Glu Ile Gly Pro Gly Val Tyr Asp Ile His Ser
 690 695 700
 Pro Asn Val Pro Ser Val Glu Trp Ile Glu Ser Leu Leu Gln Lys Ala
 705 710 715 720
 Ala Gln Arg Ile Pro Ala Glu Arg Leu Trp Val Asn Pro Asp Cys Gly
 725 730 735
 Leu Lys Thr Arg Gly Trp Pro Glu Thr Arg Ala Ala Leu Ala Asn Met
 740 745 750
 Val Gln Ala Ala Gln Asn Leu Arg Gln Ala
 755 760

<210> 7696

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7696

Ser Thr Val Leu Leu Leu Thr Asn Arg Pro Thr Glu Glu Ser Pro
 1 5 10 15
 Met Ser Lys Ser Asp Val Phe His Leu Gly Leu Thr Lys Asn Asp Leu
 20 25 30
 Gln Gly Ala Thr Leu Ala Ile Val Pro Gly Asp Pro Glu Arg Val Glu
 35 40 45
 Lys Ile Ala Ala Leu Met Asp Lys Pro Val Lys Leu Ala Ala His Arg
 50 55 60
 Glu Phe Thr Thr Trp Arg Ala Glu Leu Asp Gly Lys Ala Val Ile Val
 65 70 75 80
 Cys Ser Thr Gly Ile Gly Gly Pro Ser Thr Ser Ile Ala Val Glu Glu
 85 90 95
 Leu Ala Gln Leu Gly Ile Arg Thr Phe Leu Arg Ile Gly Thr Thr Gly
 100 105 110
 Ala Ile Gln Pro His Ile Asn Val Gly Asp Val Leu Val Thr Thr Ala
 115 120 125
 Ser Val Arg Leu Asp Gly Ala Ser Leu His Phe Ala Pro Met Glu Phe
 130 135 140
 Pro Ala Val Ala Asp Phe Glu Cys Thr Thr Ala Leu Val Glu Ala Ala
 145 150 155 160
 Lys Ser Val Gly Ala Thr Thr His Val Gly Val Thr Ala Ser Ser Asp
 165 170 175
 Thr Phe Tyr Pro Gly Gln Glu Arg Tyr Asp Thr Phe Ser Gly Arg Val
 180 185 190
 Val Ser Arg Phe Lys Gly Ser Met Glu Glu Trp Gln Ser Met Gly Val

		195						200					205				
Met	Asn	Tyr	Glu	Met	Glu	Ser	Ala	Thr	Leu	Leu	Thr	220	Met	Cys	Ala	Ser	
	210					215											
Gln	Gly	Leu	Arg	Ala	Gly	Met	Val	Ala	Gly	Val	Ile	Val	Asn	Arg	Thr	240	
225					230					235							
Gln	Gln	Glu	Ile	Pro	Asn	Ala	Glu	Thr	Met	Lys	Gln	Thr	Glu	Ser	His	255	
				245					250								
Ala	Val	Lys	Ile	Val	Val	Glu	Ala	Ala	Arg	Arg	Leu	Ile					
			260					265					270				

<210> 7697

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 7697

[illegible]

<210> 7698

<211> 505

<212> PRT

<213> Enterobacter cloacae

<400> 7698

Ser Ala Tyr Arg Glu Ala Met Ile Asn Cys Met Lys Tyr His Asp Leu
1 5 10 15

Arg Asp Phe Leu Ala Leu Leu Glu Lys Gln Gly Glu Leu Lys Arg Ile
 20 25 30
 Thr Leu Pro Val Asp Pro Tyr Leu Glu Met Thr Glu Ile Ala Asp Arg
 35 40 45
 Thr Leu Arg Ala Gly Gly Pro Ala Leu Leu Phe Glu Asn Pro Lys Gly
 50 55 60
 Tyr Thr Met Pro Val Leu Cys Asn Leu Phe Gly Thr Pro Arg Arg Val
 65 70 75 80
 Ala Leu Gly Met Gly Gln Glu Asp Val Thr Ala Leu Arg Glu Val Gly
 85 90 95
 Lys Leu Leu Ala Phe Leu Lys Glu Pro Glu Pro Pro Lys Gly Phe Arg
 100 105 110
 Asp Leu Phe Asp Lys Leu Pro Gln Phe Lys Gln Val Leu Asn Met Pro
 115 120 125
 Thr Lys Arg Leu Arg Gly Ala Pro Cys Gln Gln Lys Val Leu Glu Gly
 130 135 140
 Asp Ala Val Asp Leu Thr Lys Ile Pro Ile Met Gln Cys Trp Pro Glu
 145 150 155 160
 Asp Ala Ala Pro Leu Ile Thr Trp Gly Leu Thr Val Thr Arg Gly Pro
 165 170 175
 His Lys Glu Arg Gln Asn Leu Gly Ile Tyr Arg Gln Gln Leu Ile Gly
 180 185 190
 Lys Asn Lys Leu Ile Met Arg Trp Leu Ser His Arg Gly Gly Ala Leu
 195 200 205
 Asp Phe Gln Glu Trp Cys Ala Ala His Pro Gly Glu Arg Phe Pro Val
 210 215 220
 Ser Val Ala Leu Gly Ala Asp Pro Ala Thr Ile Leu Gly Ala Val Thr
 225 230 235 240
 Pro Val Pro Asp Thr Leu Ser Glu Tyr Ala Phe Ala Gly Leu Leu Arg
 245 250 255
 Gly Thr Lys Thr Glu Val Val Lys Cys Ile Ser Asn Asp Leu Glu Val
 260 265 270
 Pro Ala Ser Ala Glu Ile Val Leu Glu Gly Tyr Ile Glu Gln Gly Glu
 275 280 285
 Leu Ala Pro Glu Gly Pro Tyr Gly Asp His Thr Gly Tyr Tyr Asn Glu
 290 295 300
 Val Asp Asn Phe Pro Val Phe Thr Val Thr His Ile Thr Gln Arg Glu
 305 310 315 320
 Asp Ala Ile Tyr His Ser Thr Tyr Thr Gly Arg Pro Pro Asp Glu Pro
 325 330 335
 Ala Val Leu Gly Val Ala Leu Asn Glu Val Phe Val Pro Ile Leu Gln
 340 345 350
 Lys Gln Phe Pro Glu Ile Val Asp Phe Tyr Leu Pro Pro Glu Gly Cys
 355 360 365
 Ser Tyr Arg Leu Ala Val Val Thr Met Lys Lys Gln Tyr Ala Gly His
 370 375 380
 Ala Lys Arg Val Met Met Gly Val Trp Ser Phe Leu Arg Gln Phe Met
 385 390 395 400
 Tyr Thr Lys Phe Val Ile Val Cys Asp Asp Val Asn Ala Arg Asp
 405 410 415
 Trp Asn Asp Val Ile Trp Ala Ile Thr Thr Arg Met Asp Pro Ala Arg
 420 425 430
 Asp Thr Val Leu Val Glu Asn Thr Pro Ile Asp Tyr Leu Asp Phe Ala
 435 440 445
 Ser Pro Val Ser Gly Leu Gly Ser Lys Met Gly Leu Asp Ala Thr Asn
 450 455 460
 Lys Trp Pro Gly Glu Thr Asp Arg Glu Trp Gly Arg Pro Ile Glu Lys
 465 470 475 480
 Asp Pro Ala Val Thr Ala Arg Ile Asp Ala Ile Trp Asp Glu Leu Ala
 485 490 495
 Ile Met Asn Asn Gly Lys Ala Glu

500

505

<210> 7699
 <211> 241
 <212> PRT
 <213> Enterobacter cloacae

<400> 7699
 Thr Ser Arg Gln Arg Glu Arg Met Thr Thr Leu Ser Cys Lys Val Thr
 1 5 10 15
 Ser Val Asp Ala Ile Thr Asp Thr Val Tyr Arg Val Arg Leu Val Pro
 20 25 30
 Glu Ala Ala Phe Ser Phe Arg Ala Gly Gln Tyr Leu Met Val Val Met
 35 40 45
 Asp Glu Arg Asp Lys Arg Pro Phe Ser Met Ala Ser Thr Pro Ala Glu
 50 55 60
 Lys Glu Phe Ile Glu Leu His Ile Gly Ala Ser Glu Leu Asn Leu Tyr
 65 70 75 80
 Ala Met Ala Val Met Asp Arg Ile Leu Lys Glu Arg Glu Ile Val Val
 85 90 95
 Asp Ile Pro His Gly Glu Ala Trp Leu Arg Glu Asp Glu Asp Arg Pro
 100 105 110
 Leu Ile Leu Ile Ala Gly Gly Thr Gly Phe Ser Tyr Val Arg Ser Ile
 115 120 125
 Leu Leu Thr Ala Leu Ala Arg Asn Pro Asn Arg Asp Ile Thr Ile Tyr
 130 135 140
 Trp Gly Gly Arg Glu Glu Lys His Leu Tyr Asp Leu Ser Glu Leu Glu
 145 150 155 160
 Ala Leu Ser Val Asn His Pro Asn Leu Arg Ile Glu Pro Val Val Glu
 165 170 175
 Gln Pro Glu Glu Gly Trp Arg Gly Arg Ser Gly Thr Val Leu Thr Ala
 180 185 190
 Val Leu Gln Asp His Gly Thr Leu Ala Gly His Asp Ile Tyr Ile Ala
 195 200 205
 Gly Arg Phe Glu Met Ala Lys Ile Ala Arg Asp Leu Phe Cys Asn Glu
 210 215 220
 Arg Asp Ala Arg Glu Asp Arg Leu Phe Gly Asp Ala Phe Ala Phe Ile
 225 230 235 240

<210> 7700
 <211> 546
 <212> PRT
 <213> Enterobacter cloacae

<400> 7700
 Phe His Ser Gly Val Leu Met Ala His Phe Ala Gln Ser Pro Ser Phe
 1 5 10 15
 Ile Leu His Gln Val Thr Cys Gln Phe Ala Thr Gly Asp Ile Leu Phe
 20 25 30
 Gly Pro Leu Asn Leu Ser Leu Asp Ala Ser Val Cys Ala Leu Val Gly
 35 40 45
 Arg Asn Gly Ser Gly Lys Thr Arg Leu Leu Arg Leu Leu Ala Gly Val
 50 55 60
 Asp Glu Pro Ala Ser Gly His Ile Glu Arg Phe Gly Thr His Val Tyr
 65 70 75 80
 Val Ala Gln Gln Gln Asp Ile Ser Ala Asp Thr Thr Leu Ala Glu Leu
 85 90 95
 Leu Gly Tyr Asp Ala Ile Phe Ala Ala Arg Thr Arg Ile Asp Ser Gly
 100 105 110

His Tyr Glu Pro Asp Asp Leu Asp Thr Leu Asp Gly Tyr Trp Asp Leu
 115 120 125
 Ala Glu Arg Leu Ser Gln Ala Phe Ile Ala Ala Lys Leu Pro Pro Phe
 130 135 140
 Asp Pro Ser Lys Arg Ala Ala Glu Leu Ser Gly Gly Glu Arg Ile Arg
 145 150 155 160
 Ala Leu Leu Cys Ser Ala Phe Thr Ala Asp Ala Asp Tyr Leu Leu Leu
 165 170 175
 Asp Glu Pro Thr Asn His Leu Asp Arg Gln Gly Arg Lys Trp Phe Tyr
 180 185 190
 Glu Gln Leu Ser Arg Tyr Gln Gly Gly Val Leu Val Ala Ser His Asp
 195 200 205
 Arg Glu Leu Leu Ala Gln Val Pro Arg Ile Leu Glu Leu Ser Ala Leu
 210 215 220
 Gly Leu Arg Ser Tyr Gly Gly Asn Tyr Ala Asp Tyr Arg Thr Gln Arg
 225 230 235 240
 Asp Ala Glu Gln Leu Ala Ala Arg Ala Ala Leu Glu His Ala Ala Thr
 245 250 255
 Glu Arg Lys Arg Thr Arg Ala Arg Met His Lys Glu His Asp Asp Ser
 260 265 270
 Leu Arg Arg Ser Ala Lys Thr Leu Arg Thr Val Asp Ser Leu Asn Ile
 275 280 285
 Ala Ser Phe Glu Arg Val Lys Tyr Lys Gly Ala Ala Lys Glu Arg Ile
 290 295 300
 Gly Ser Trp Lys Lys Gln His Ser Val Gln Asn His Ala Leu Asn Ala
 305 310 315 320
 Ala Val Asn Gln Ala Arg Glu Arg Val Glu Glu Asp Asn Ala Val Met
 325 330 335
 Phe Thr Leu Pro Gly Ser Glu Ile Pro Glu Gly Lys Gln Val Leu Val
 340 345 350
 Leu Glu Glu Leu Val Leu Pro His Val Pro Val Pro Pro Ile Asn Trp
 355 360 365
 Arg Met Asp Gly Pro Met Arg Val Ala Leu Arg Gly Pro Asn Gly Cys
 370 375 380
 Gly Lys Ser Thr Leu Leu Lys Val Met Leu Gly Glu Thr Ala Pro Val
 385 390 395 400
 Thr Gly Thr Cys Lys Val Ser Val Arg Cys Ala Tyr Leu Asp Gln His
 405 410 415
 Leu Ser Arg Leu Asp Leu Ser Gln Ser Val Met Thr His Leu Ser Leu
 420 425 430
 Gly Asn Thr Pro Leu Glu Glu Gly Ala Leu Arg Thr Arg Leu Ala Gln
 435 440 445
 Leu Gln Leu Gly Ala Glu Lys Val Thr Leu Pro Leu Ala Glu Leu Ser
 450 455 460
 Gly Gly Glu Arg Leu Lys Ala Ala Leu Ala Cys Val Leu Trp Arg Glu
 465 470 475 480
 Ala Ala Thr Gln Leu Leu Leu Leu Asp Glu Pro Thr Asn His Leu Asp
 485 490 495
 Leu Ala Ser Val Gln Ala Ile Glu Ala Ala Leu Ala Asp Tyr Pro Gly
 500 505 510
 Ala Leu Leu Val Val Ser His Asp Glu Ala Phe Leu Ala Gly Leu Lys
 515 520 525
 Leu Thr His Glu Leu Val Trp Glu Glu Thr Gly Trp Arg Cys Glu Ser
 530 535 540
 Leu
 545

<210> 7701

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 7701

Ala Asp Asp Asp Thr Arg Thr Leu Leu Ile Gln Ala Glu Glu Glu Arg
 1 5 10 15
 Val Val Asp Asn Arg Met His Asp Arg Tyr Cys Glu Leu Arg Ala Ala
 20 25 30
 Ala Gly His Pro Cys Glu Gly Gly Lys Pro Leu Val Ile Asn Gly Ala
 35 40 45
 Tyr His Glu Ile Leu Phe Glu Lys Asp Ala Met Arg Ser Val Ala Leu
 50 55 60
 Asn Ala Ile Val Glu Phe Phe Asn Arg His Asn
 65 70 75

<210> 7702

<211> 534

<212> PRT

<213> Enterobacter cloacae

<400> 7702

Ser Asn Ser Leu Phe Ser Ala Lys Arg Pro Thr Cys Ser Ala Phe Ser
 1 5 10 15
 Phe Cys Val Thr Pro Arg Arg Lys Thr Leu Ser Asn Trp Thr Phe Ile
 20 25 30
 Gln His Asn Ser Ile Leu Cys Gly Leu Asp Val Asp Ala Gly Gly Ile
 35 40 45
 Val Asp Ile Ser Ile Leu Val Tyr Ala Val Val Ala Leu Val Ser Val
 50 55 60
 Gly Ile Gly Trp Leu Ile Cys Gly Tyr Gln His Ala Gln Gln Lys Ala
 65 70 75 80
 Asp Gln Leu Ala Glu Arg Glu Glu Ile Val Ala Glu Leu Ser Ala Thr
 85 90 95
 Lys Gln Gln Leu Ala Leu Ser Asp His Trp Arg Asp Glu Cys Glu Leu
 100 105 110
 Leu Asn Asn Glu Leu Arg Asn Leu Arg Asp Ile Asn Thr Ser Leu Glu
 115 120 125
 Ala Asp Leu Arg Glu Val Thr Thr Arg Leu Glu Ser Thr Gln Leu His
 130 135 140
 Ala Glu Asp Lys Ile Arg Gln Met Ile Asn Ser Glu Gln Arg Leu Ser
 145 150 155 160
 Glu Gln Phe Glu Asn Leu Ala Asn Arg Ile Phe Glu His Ser Asn Arg
 165 170 175
 Arg Val Asp Glu Gln Asn Arg Gln Ser Leu Asn Ser Leu Leu Thr Pro
 180 185 190
 Leu Arg Glu Gln Leu Asp Gly Phe Arg Arg Gln Val Gln Asp Ser Phe
 195 200 205
 Gly Gln Glu Ala Arg Glu Arg His Thr Leu Ala His Glu Ile Arg Asn
 210 215 220
 Leu Gln Gln Leu Asn Ala Gln Met Ala Gln Glu Ala Val Asn Leu Thr
 225 230 235 240
 Arg Ala Leu Lys Gly Asp Asn Lys Ala Gln Gly Asn Trp Gly Glu Val
 245 250 255
 Val Met Thr Arg Val Leu Glu Ala Ser Gly Leu Arg Glu Gly Tyr Glu
 260 265 270
 Tyr Glu Thr Gln Val Ser Ile Glu Asn Asp Ala Arg Ser Arg Met Gln
 275 280 285
 Pro Asp Val Ile Val Arg Leu Pro Gln Gly Lys Asp Val Val Ile Asp
 290 295 300
 Ala Lys Met Thr Leu Val Ala Tyr Glu Arg Tyr Phe Asn Ala Glu Asp
 305 310 315 320
 Asp Tyr Thr Arg Glu Thr Ala Leu Gln Glu His Ile Ala Ser Val Arg
 325 330 335

Asn His Ile Arg Leu Leu Gly Arg Lys Asp Tyr Gln Gln Leu Pro Gly
 340 345 350
 Leu Arg Ser Leu Asp Tyr Val Leu Met Phe Ile Pro Val Glu Pro Ala
 355 360 365
 Phe Leu Leu Ala Leu Asp Arg Gln Pro Glu Leu Ile Thr Glu Ala Leu
 370 375 380
 Lys Asn Asn Ile Met Leu Val Ser Pro Thr Thr Leu Leu Val Ala Leu
 385 390 395 400
 Arg Thr Ile Ala Asn Leu Trp Arg Tyr Glu His Gln Ser Arg Asn Ala
 405 410 415
 Gln Gln Ile Ala Asp Arg Ala Ser Lys Leu Tyr Asp Lys Met Arg Leu
 420 425 430
 Phe Val Asp Asp Met Ser Ser Val Gly Gln Ser Leu Asp Arg Ala Gln
 435 440 445
 Asp Asn Tyr Arg Gln Ala Met Lys Lys Leu Ser Ser Gly Arg Gly Asn
 450 455 460
 Leu Leu Ala Gln Ala Glu Ala Phe Arg Ser Leu Gly Val Glu Val Lys
 465 470 475 480
 Arg Glu Ile Asn Pro Glu Leu Val Glu Gln Ala Thr Ala Gln Asp Glu
 485 490 495
 Glu Phe Arg Leu Arg Glu Gly Asp Gly Glu Gln Asn Ser Arg Asn Glu
 500 505 510
 Asp Asn Gly Leu Ala Ala Ser Leu Ser Pro Glu Ala Gln Pro Ala Arg
 515 520 525
 Phe Phe His Gly Gly
 530

<210> 7703

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 7703

Leu Ala Gly Ser Glu Met Val Asp Asp Ser Gln Asp Thr Thr His Phe
 1 5 10 15
 Gly Phe Gln Thr Val Ala Lys Ala Gln Lys Ala Asp Met Val Ala His
 20 25 30
 Val Phe His Ser Val Ala Ala Lys Tyr Asp Val Met Asn Asp Leu Met
 35 40 45
 Ser Phe Gly Ile His Arg Leu Trp Lys Arg Phe Thr Ile Asp Cys Ser
 50 55 60
 Gly Val Arg Arg Gly Gln Thr Val Leu Asp Leu Ala Gly Gly Thr Gly
 65 70 75 80
 Asp Leu Thr Ala Lys Phe Ser Arg Leu Val Gly Glu Thr Gly Arg Val
 85 90 95
 Val Leu Ala Asp Ile Asn Asp Ser Met Leu Lys Met Gly Arg Glu Lys
 100 105 110
 Leu Arg Asn Ile Gly Val Val Gly Asn Val Glu Tyr Val Gln Ala Asn
 115 120 125
 Ala Glu Ala Leu Pro Phe Pro Asp Asn Thr Phe Asp Cys Ile Thr Ile
 130 135 140
 Ser Phe Gly Leu Arg Asn Val Thr Asp Lys Asp Lys Ala Leu Arg Ser
 145 150 155 160
 Met Tyr Arg Val Leu Lys Pro Gly Gly Arg Leu Leu Val Leu Glu Phe
 165 170 175
 Ser Lys Pro Ile Ile Asp Pro Leu Ser Lys Ala Tyr Asp Ala Tyr Ser
 180 185 190
 Phe His Val Leu Pro Arg Ile Gly Glu Leu Val Ala Asn Asp Ala Glu
 195 200 205
 Ser Tyr Arg Tyr Leu Ala Glu Ser Ile Arg Met His Pro Asp Gln Asp
 210 215 220

Thr Leu Lys Ala Met Met Gln Asp Ala Glu Phe Glu Asn Val Glu Tyr
 225 230 235 240
 Phe Asn Met Thr Ala Gly Val Val Ala Leu His Arg Gly Tyr Lys Phe
 245 250 255

<210> 7704

<211> 559

<212> PRT

<213> Enterobacter cloacae

<400> 7704

Cys Val Asn Gln Thr Ala Gly Lys Thr Gly Gly Gln Met Thr Pro Gly
 1 5 10 15
 Glu Ile Arg Arg Leu Tyr Phe Ile Val Arg Thr Phe Leu Ser Tyr Gly
 20 25 30
 Leu Asp Glu Leu Ile Pro Arg Met Arg Ile Thr Leu Pro Leu Arg Leu
 35 40 45
 Trp Arg Arg Thr Leu Phe Trp Met Pro Asn Arg His Lys Asp Gln Glu
 50 55 60
 Leu Gly Ala Arg Leu Arg Leu Ala Leu Gln Glu Leu Gly Pro Val Trp
 65 70 75 80
 Ile Lys Phe Gly Gln Met Leu Ser Thr Arg Arg Asp Leu Phe Pro Pro
 85 90 95
 Gln Ile Ala Asp Gln Leu Ala Leu Leu Gln Asp Arg Val Ala Pro Phe
 100 105 110
 Asp Gly Glu Arg Ala Lys Lys Gln Ile Glu Glu Ala Met Gly Asn Ile
 115 120 125
 Pro Ile Glu Thr Trp Phe Asp Asp Phe Asp Ile Gln Pro Leu Ala Ser
 130 135 140
 Ala Ser Ile Ala Gln Val His Thr Ala Arg Leu Lys Glu Asn Gly Lys
 145 150 155 160
 Glu Val Val Ile Lys Val Ile Arg Pro Asp Ile Leu Pro Val Ile Lys
 165 170 175
 Ala Asp Met Lys Leu Ile Tyr Arg Leu Ala Arg Trp Val Pro Arg Leu
 180 185 190
 Leu Pro Asp Gly Arg Arg Leu Arg Pro Leu Glu Val Val Arg Glu Tyr
 195 200 205
 Glu Lys Thr Leu Ile Asp Glu Leu Asn Leu Leu Arg Glu Ser Ala Asn
 210 215 220
 Ala Ile Gln Leu Arg Arg Asn Phe Glu Asp Ser Pro Met Leu Tyr Val
 225 230 235 240
 Pro Glu Val Tyr Ser Asp Tyr Cys Ser Gln Asn Met Met Val Met Glu
 245 250 255
 Arg Ile Tyr Gly Ile Pro Val Ser Asp Val Thr Ala Leu Glu Lys Gln
 260 265 270
 Gly Thr Asn Met Lys Leu Leu Ala Glu Arg Gly Val Gln Val Phe Phe
 275 280 285
 Thr Gln Val Phe Arg Asp Ser Phe Phe His Ala Asp Met His Pro Gly
 290 295 300
 Asn Ile Phe Val Ser Tyr Glu His Pro Glu Asp Pro Lys Tyr Ile Gly
 305 310 315 320
 Ile Asp Cys Gly Ile Val Gly Ser Leu Asn Lys Glu Asp Lys Arg Tyr
 325 330 335
 Leu Ala Glu Asn Phe Ile Ala Phe Phe Asn Arg Asp Tyr Arg Lys Val
 340 345 350
 Ala Glu Leu His Val Asp Ser Gly Trp Val Pro Pro Asp Thr Asn Val
 355 360 365
 Glu Glu Phe Glu Phe Ala Ile Arg Thr Val Cys Glu Pro Ile Phe Glu
 370 375 380

Lys Pro Leu Ser Glu Ile Ser Phe Gly His Val Leu Leu Asn Leu Phe
 385 390 395 400
 Asn Thr Ala Arg Arg Phe Asn Met Glu Val Gln Pro Gln Leu Val Leu
 405 410 415
 Leu Gln Lys Thr Leu Leu Tyr Val Glu Gly Val Gly Arg Gln Leu Tyr
 420 425 430
 Pro Gln Leu Asp Leu Trp Lys Thr Ala Lys Pro Phe Leu Glu Ser Trp
 435 440 445
 Ile Lys Asp Gln Val Gly Ile Pro Ala Leu Val Arg Ser Leu Lys Glu
 450 455 460
 Lys Gly Pro Phe Trp Ile Glu Lys Met Pro Glu Ile Pro Glu Leu Val
 465 470 475 480
 Tyr Asp Ser Leu Arg Gln Ser Lys Asn Leu Gln His Ser Met Asp Lys
 485 490 495
 Ile Ala His Glu Leu Gln Ser Ser Arg Val Arg Gln Gly Gln Ser Arg
 500 505 510
 Tyr Leu Phe Gly Ile Gly Ala Thr Leu Leu Ile Ser Gly Thr Leu Leu
 515 520 525
 Leu Ile Asn Arg Pro Asp Trp Glu Met Met Pro Ala Trp Ile Met Ala
 530 535 540
 Ala Gly Val Val Val Trp Leu Ala Gly Trp Arg Lys Thr Arg
 545 550 555

<210> 7705

<211> 260

<212> PRT

<213> Enterobacter cloacae

<400> 7705

Ser Val Asn Met Ala Val Asp Asp Thr Gln Pro Leu Ile Ala His Leu
 1 5 10 15
 Ile Glu Leu Arg Lys Arg Leu Leu Asn Cys Ile Ile Ala Val Phe Leu
 20 25 30
 Ile Phe Leu Cys Leu Val Tyr Phe Ala Asn Asp Ile Tyr Gln Val Val
 35 40 45
 Ser Ala Pro Leu Ile Lys Gln Met Pro Leu Gly Ala Thr Met Ile Ala
 50 55 60
 Thr Asp Val Ala Ser Pro Phe Phe Thr Pro Ile Lys Leu Thr Phe Trp
 65 70 75 80
 Val Ser Leu Ile Ala Ser Ala Pro Val Ile Leu Tyr Gln Val Trp Ala
 85 90 95
 Phe Val Ala Pro Ala Leu Tyr Arg His Glu Arg Lys Leu Val Ile Pro
 100 105 110
 Leu Leu Val Ser Ser Ser Leu Leu Phe Tyr Ile Gly Met Ala Phe Ala
 115 120 125
 Tyr Phe Val Val Phe Pro Leu Ala Phe Gly Phe Leu Thr His Thr Ala
 130 135 140
 Pro Glu Gly Val Gln Val Ser Thr Asp Ile Ala Ser Tyr Leu Ser Phe
 145 150 155 160
 Val Met Ala Leu Phe Met Ala Phe Gly Val Ala Phe Glu Val Pro Val
 165 170 175
 Ala Ile Val Leu Leu Cys Trp Val Gly Val Thr Thr Pro Asp Asp Leu
 180 185 190
 Arg Lys Lys Arg Pro Tyr Ile Leu Val Gly Ala Phe Val Val Gly Met
 195 200 205
 Leu Leu Thr Pro Pro Asp Val Phe Ser Gln Thr Leu Leu Ala Ile Pro
 210 215 220
 Met Tyr Cys Leu Phe Glu Val Gly Val Phe Phe Ala Arg Phe Tyr Val
 225 230 235 240
 Gly Lys Gly Arg Thr Arg Asp Glu Glu Asp Glu Pro Ser Glu Glu Thr
 245 250 255

Thr Lys Glu

260

<210> 7706

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 7706

```

Ser Arg Cys Val Ile Tyr Glu Glu Phe Ser Met Glu Leu Lys Asp Pro
1          5          10          15
Glu Phe Glu Leu Leu Ser Ser Leu Glu Gln Ile Ile Phe Lys Asp Val
          20          25          30
Pro Pro Thr Val Thr Leu Asn Gln Lys Ser Asn Pro Phe Ser Glu Phe
          35          40          45
Glu Arg Leu Arg Lys Gly Ser Gly Leu Lys Thr Asp Glu Phe Ala Arg
          50          55          60
Ala Met Gly Val Ser Val Ala Met Val Leu Glu Trp Glu Ser Lys Arg
65          70          75          80
Glu Lys Pro Thr Pro Ala Glu Leu Lys Leu Met Arg Leu Ile Gln Ala
          85          90          95
Asn Pro Asp Leu Arg Lys Gln Leu Ala
          100          105

```

<210> 7707

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 7707

```

Arg Ser Arg Gln Gly Phe Gly Met Leu Ala Pro Arg Thr Met Gly Arg
1          5          10          15
Val Ile Met Gln Ala Trp Tyr Leu Leu Tyr Cys Lys Arg Gly Gln Leu
          20          25          30
Gln Arg Ala Gln Glu His Leu Glu Arg Gln Ser Val Asn Cys Leu Thr
          35          40          45
Pro Val Ile Thr Leu Glu Lys Met Gln Arg Gly Arg Arg Thr Thr Val
          50          55          60
Ser Glu Pro Leu Phe Pro Asn Tyr Leu Phe Val Glu Phe Asp Pro Glu
65          70          75          80
Val Ile His Thr Thr Thr Ile Ser Ala Thr Arg Gly Val Ser His Phe
          85          90          95
Val Arg Phe Gly Ala His Pro Ala Arg Val Pro Ser Ser Val Ile His
          100          105          110
Gln Leu Ser Val Tyr Gln Gln Pro Glu Asp Ile Thr Asp Pro Glu Thr
          115          120          125
Pro Tyr Ala Gly Asp Ser Val Val Ile Thr Glu Gly Ala Phe Glu Gly
          130          135          140
Leu Gln Ala Ile Phe Ala Glu Pro Asp Gly Glu Ala Arg Ser Met Leu
145          150          155          160
Leu Leu Asn Leu Leu Asn Lys Glu Val Leu Gln Ser Val Lys Asn Thr
          165          170          175
Asp Phe Arg Lys Val
          180

```

<210> 7708

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 7708

```

Pro Gly Val Tyr Ile Tyr Leu Cys Ala Asn Pro Phe Ile Gly Thr Glu
1      5      10      15
Asn Ala Met Thr Glu Lys Thr Gly Phe Ala Pro Ala Ala Pro His
20      25      30
Ala Ser Thr Ile Val Ser Thr Pro Glu Glu Ala Ile Thr Ala Gly Glu
35      40      45
Thr Ser Ile Pro Ser Gln Gly Glu Asn Met Pro Ala Tyr His Ala Arg
50      55      60
Pro Lys Ser Ala Asp Gly Pro Leu Pro Ile Val Ile Val Val Gln Glu
65      70      75      80
Ile Phe Gly Val His Glu His Ile Arg Asp Leu Cys Arg Arg Leu Ala
85      90      95
Leu Glu Gly Tyr Leu Ala Val Ala Pro Glu Leu Tyr Phe Arg Gln Gly
100      105      110
Asp Pro Asn Asp Tyr Ser Asp Ile Pro Thr Leu Phe Ser Asn Leu Val
115      120      125
Ser Lys Val Pro Asp Ala Gln Val Leu Ala Asp Leu Asp His Val Ala
130      135      140
Ser Trp Ala Ala Arg Asn Gly Gly Asp Pro His Arg Leu Met Val Thr
145      150      155      160
Gly Phe Cys Trp Gly Gly Arg Ile Ser Trp Leu Tyr Ala Ala His Asn
165      170      175
Pro Gln Leu Lys Ala Ala Val Ala Trp Tyr Gly Lys Leu Val Gly Glu
180      185      190
Lys Thr Leu Asn Ser Pro Lys His Pro Val Asp Ile Ala Thr Asp Leu
195      200      205
Asn Ala Pro Val Leu Gly Leu Tyr Gly Gly Gln Asp Thr Gly Ile Pro
210      215      220
Leu Asp Thr Val Glu Thr Met Arg His Ala Leu Arg Ala Ala Asn Ala
225      230      235      240
Lys Ala Glu Ile Val Val Tyr Pro Asp Ala Gly His Ala Phe Asn Ala
245      250      255
Asp Tyr Arg Pro Ser Tyr His Ala Glu Ser Ala Lys Asp Gly Trp Gln
260      265      270
Arg Met Leu Ala Trp Phe Ser Gln Tyr Gly Gly Lys Lys Ala
275      280      285

```

<210> 7709

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 7709

```

Gly Cys Met Ala Val Arg Ile Pro Ala Phe Arg Leu Ile Pro Ser Arg
1      5      10      15
Pro Cys Ala Thr Arg Cys Gly Arg Gln Thr Arg Arg Pro Lys Ser Trp
20      25      30
Cys Thr Arg Met Arg Asp Thr Arg Leu Met Pro Ile Ile Val Arg Ala
35      40      45
Ile Thr Arg Asn Pro Arg Lys Met Ala Gly Arg Glu Cys Trp Arg Gly
50      55      60
Ser Ala Ser Thr Ala Gly Arg Lys Arg Asn Thr Lys Ser Pro Val Ala
65      70      75      80
Ala Thr Pro Thr Gly Gln Ser Ser Pro Thr Thr Pro Asp Ala Asn Ser
85      90      95
Ala Pro Pro Ala Pro Cys Ser Pro Ala Pro Arg Gly Phe Gln Ala Ser
100      105      110
Arg Glu Phe Ser Gly Arg Ser Pro Gly Leu Pro Thr Asp Val Pro Pro
115      120      125
Gly Cys Ala Gly Pro Leu Phe Ala Ala Ala Ile Gln Ser Thr Pro Arg
130      135      140

```

Leu Ala Arg
145

<210> 7710
<211> 321
<212> PRT
<213> *Enterobacter cloacae*

<400> 7710

```

Arg Thr Phe Met Ile Glu Ile Lys His Leu Lys Thr Leu Gln Ala Leu
1      5      10      15
Arg Asn Cys Gly Ser Leu Ala Ala Ala Thr Leu His Gln Thr
20      25      30
Gln Ser Ala Leu Ser His Gln Phe Ser Asp Leu Glu Gln Arg Leu Gly
35      40      45
Phe Arg Leu Phe Val Arg Lys Ser Gln Pro Leu Arg Phe Thr Pro Gln
50      55      60
Gly Glu Ile Leu Leu Gln Leu Ala Asn Gln Val Leu Pro Gln Ile Ala
65      70      75      80
Ser Ala Leu Gln Ser Cys Asn Glu Pro Gln Gln Thr Thr Leu Arg Ile
85      90      95
Ala Ile Glu Cys His Ser Cys Ile Gln Trp Leu Thr Pro Ala Leu Glu
100     105     110
Asn Phe Arg Gln Lys Trp Pro Gln Val Glu Met Asp Phe Lys Ser Gly
115     120     125
Val Thr Phe Asp Pro Gln Pro Ser Leu Gln Gln Gly Glu Leu Asp Leu
130     135     140
Val Met Thr Ser Asp Ile Leu Pro Arg Ser Gly Leu His Tyr Ser Pro
145     150     155     160
Met Phe Asp Phe Glu Val Arg Leu Val Leu Ala Pro Asp His Pro Leu
165     170     175
Ala Ala Lys Thr Arg Ile Thr Pro Glu Asp Leu Ala Thr Glu Thr Leu
180     185     190
Leu Ile Tyr Pro Val Gln Arg Ser Arg Leu Asp Ile Trp Arg His Phe
195     200     205
Leu Gln Pro Ala Gly Ile Ser Pro Gln Leu Lys Ser Val Asp Asn Thr
210     215     220
Leu Leu Leu Ile Gln Met Val Ala Ala Arg Met Gly Ile Ala Ala Leu
225     230     235     240
Pro His Trp Val Val Glu Thr Val Glu Arg Gln Gly Leu Val Val Thr
245     250     255
Lys Thr Leu Gly Glu Gly Leu Trp Ser Arg Leu Tyr Ala Ala Val Arg
260     265     270
Asp Gly Glu Gln Arg Gln Pro Ile Thr Glu Ala Phe Ile Arg Ser Ala
275     280     285
Arg Asn His Ala Cys Asp His Leu Pro Phe Val Arg Ser Ala Glu Arg
290     295     300
Pro Ser Gly Asp Val Pro Thr Ala Lys Pro Gly Ser Pro Phe Pro Gln
305     310     315     320

```

<210> 7711
<211> 502
<212> PRT
<213> *Enterobacter cloacae*

<400> 7711

```

Lys Glu Pro Pro Gly Tyr Val Phe Leu Val Pro Arg Gly Gly Met Met
1      5      10      15
Asn Ile Pro Gly Asp Glu Leu Tyr Thr Leu Leu His Ala Ala Leu Lys

```

[illegible]

<210> 7712
 <211> 222
 <212> PRT
 <213> Enterobacter cloacae

<400> 7712
 Ile His Gln Arg Met Ala Arg Lys Thr Lys Gln Gln Ala Leu Glu Thr
 1 5 10 15
 Arg Gln His Ile Leu Asp Val Ala Met Arg Leu Phe Ser Gln Gln Gly
 20 25 30
 Val Ser Ala Thr Ser Leu Ala Gln Ile Ala Gln Ala Ala Gly Val Thr
 35 40 45
 Arg Gly Ala Ile Tyr Trp His Phe Lys Asp Lys Ser Asp Leu Phe Gly
 50 55 60
 Glu Ile Trp Glu Leu Ser Glu Ser Ser Ile Ser Asp Leu Glu Ser Glu
 65 70 75 80
 Tyr Arg Ala Lys Phe Pro His Asp Pro Leu Ser Val Leu Arg Glu Ile
 85 90 95
 Leu Val Tyr Ile Leu Glu Ala Thr Val Val Glu Glu Arg Arg Glu Leu
 100 105 110
 Met Met Glu Ile Ile Phe His Lys Cys Glu Phe Val Gly Glu Met Ala
 115 120 125
 Val Val Gln Gln Ala Gln Arg Asp Leu Cys Leu Glu Ser Tyr Asp Arg
 130 135 140
 Ile Glu Gln Val Leu Thr Glu Cys Met Gln Ala Lys Met Leu Pro Ala
 145 150 155 160
 Thr Leu Leu Thr Arg Arg Ala Ala Ile Leu Met Arg Ser Tyr Ile Ser
 165 170 175
 Gly Leu Met Glu Asn Trp Leu Phe Ala Pro Glu Ser Phe Asp Leu Arg
 180 185 190
 Ser Glu Ala Arg Ser Tyr Val Asp Ile Phe Leu Glu Met Cys Gln Leu
 195 200 205
 Cys Pro Thr Leu Gln Ser Lys His His Pro Arg Ser Thr
 210 215 220

<210> 7713
 <211> 206
 <212> PRT
 <213> Enterobacter cloacae

<400> 7713
 Thr Thr Val Thr Leu Thr Asp Ser Ser Arg Ala Val Ser Asn Thr Val
 1 5 10 15
 Ser Phe Arg His Lys Pro Met Thr Ala Thr Ala Gln Gln Leu Glu Tyr
 20 25 30
 Leu Lys Asn Ser Ile Lys Ser Ile Gln Asp Tyr Pro Lys Pro Gly Ile
 35 40 45
 Leu Phe Arg Asp Val Thr Ser Leu Leu Glu Asp Pro Lys Ala Tyr Ala
 50 55 60
 Leu Ser Ile Glu Leu Leu Val Glu Arg Tyr Lys Asn Ala Gly Ile Thr
 65 70 75 80
 Lys Val Val Gly Thr Glu Ala Arg Gly Phe Leu Phe Gly Ala Pro Val
 85 90 95
 Ala Leu Ala Met Gly Val Gly Phe Val Pro Val Arg Lys Pro Arg Lys
 100 105 110
 Leu Pro Arg Glu Thr Ile Ala Glu Ser Tyr Glu Leu Glu Tyr Gly Thr
 115 120 125
 Asp Gln Leu Glu Ile His Val Asp Ala Ile Lys Pro Gly Asp Lys Val
 130 135 140
 Leu Val Val Asp Asp Leu Leu Ala Thr Gly Gly Thr Ile Glu Ala Thr

145 150 155 160
 Val Lys Leu Ile Arg Arg Leu Gly Gly Glu Val Thr Asp Ala Ala Phe
 165 170 175
 Ile Ile Asn Leu Phe Asp Leu Gly Gly Glu Gln Arg Leu Glu Lys Gln
 180 185 190
 Gly Ile Thr Ser Tyr Ser Leu Val Pro Phe Pro Gly His
 195 200 205

<210> 7714
 <211> 118
 <212> PRT
 <213> Enterobacter cloacae

<400> 7714
 Arg Glu Arg Arg Glu Lys Pro Met Phe Gly Gly Lys Gly Gly Leu Gly
 1 5 10 15
 Gly Leu Met Lys Gln Ala Gln Gln Met Gln Glu Lys Met Gln Lys Met
 20 25 30
 Gln Glu Glu Ile Ala Gln Leu Glu Val Thr Gly Glu Ser Gly Ala Gly
 35 40 45
 Leu Val Lys Val Thr Ile Asn Gly Ala His Asn Cys Arg Arg Val Glu
 50 55 60
 Ile Asp Pro Ser Leu Leu Glu Asp Asp Lys Glu Met Leu Glu Asp Leu
 65 70 75 80
 Val Ala Ala Ala Phe Asn Asp Ala Ala Arg Arg Ile Asp Glu Thr Gln
 85 90 95
 Lys Glu Lys Met Ala Ser Val Ser Ser Gly Met Gln Leu Pro Pro Gly
 100 105 110
 Phe Lys Met Pro Phe
 115

<210> 7715
 <211> 658
 <212> PRT
 <213> Enterobacter cloacae

<400> 7715
 His Ser Pro Pro Leu Ile His Leu Pro Ala Leu Gln Ser Leu Pro Met
 1 5 10 15
 Ser Tyr Gln Val Leu Ala Arg Lys Trp Arg Pro Gln Thr Phe Ala Asp
 20 25 30
 Val Val Gly Gln Glu His Val Leu Thr Ala Leu Ala Asn Gly Leu Ser
 35 40 45
 Leu Gly Arg Ile His His Ala Tyr Leu Phe Ser Gly Thr Arg Gly Val
 50 55 60
 Gly Lys Thr Ser Ile Ala Arg Leu Leu Ala Lys Gly Leu Asn Cys Glu
 65 70 75 80
 Thr Gly Ile Thr Ala Thr Pro Cys Gly Val Cys Asp Asn Cys Arg Glu
 85 90 95
 Ile Glu Gln Gly Arg Phe Val Asp Leu Ile Glu Ile Asp Ala Ala Ser
 100 105 110
 Arg Thr Lys Val Glu Asp Thr Arg Asp Leu Leu Asp Asn Val Gln Tyr
 115 120 125
 Ala Pro Ala Arg Gly Arg Phe Lys Val Tyr Leu Ile Asp Glu Val His
 130 135 140
 Met Leu Ser Arg His Ser Phe Asn Ala Leu Leu Lys Thr Leu Glu Glu
 145 150 155 160
 Pro Pro Ala His Val Lys Phe Leu Leu Ala Thr Thr Asp Pro Gln Lys
 165 170 175
 Leu Pro Val Thr Ile Leu Ser Arg Cys Leu Gln Phe His Leu Lys Ala
 180 185 190

Leu Asp Val Glu Gln Ile Arg Ala Gln Leu Glu His Ile Leu Asp Glu
 195 200 205
 Glu Asn Ile Val His Glu Pro Arg Ala Leu Gln Leu Leu Ala Arg Ala
 210 215 220
 Ala Asp Gly Ser Leu Arg Asp Ala Leu Ser Leu Thr Asp Gln Ala Ile
 225 230 235 240
 Ala Ser Gly Asp Gly Lys Leu Ser Thr Asp Ala Val Ser Thr Met Leu
 245 250 255
 Gly Thr Leu Asp Asp Gln Ala Leu Ser Leu Ile Glu Ala Met Ile
 260 265 270
 Ala Ala Asn Gly Glu Arg Val Met Thr Leu Val Asn Asp Ala Ala Ala
 275 280 285
 Arg Gly Ile Glu Trp Glu Ala Leu Leu Val Glu Met Leu Ser Leu Leu
 290 295 300
 His Arg Val Ala Met Leu Gln Leu Ser Pro Ser Ala Ile Gly Ala Asp
 305 310 315 320
 Met Ala Thr Ile Glu Gln Arg Met Arg Glu Leu Ala Arg Thr Val Pro
 325 330 335
 Pro Ala Asp Val Gln Leu Tyr Tyr Gln Thr Leu Leu Ile Gly Arg Lys
 340 345 350
 Glu Leu Pro Phe Ala Pro Asp Arg Arg Met Gly Val Glu Met Thr Leu
 355 360 365
 Leu Arg Ala Leu Ala Phe His Pro Arg Lys Pro Leu Pro Glu Pro Glu
 370 375 380
 Thr Pro Arg Gln Ser Phe Ala Pro Val Ala Pro Thr Ala Val Met Ser
 385 390 395 400
 Pro Gln Gln Val Pro Pro Gln Pro Ala Ser Pro Pro Pro Gln Asn Val
 405 410 415
 Pro Leu Ser Asp Ala Thr Ser Ser Val Leu Ala Ala Arg Ser Gln Leu
 420 425 430
 Gln Arg Ala Gln Gly Ala Thr Lys Pro Lys Lys Ser Glu Pro Ala Ala
 435 440 445
 Pro Ala Arg Ala Arg Pro Val Asn Asn Ala Ala Leu Glu Arg Leu Ala
 450 455 460
 Ser Val Thr Glu Arg Val Gln Ser Arg Pro Ala Pro Ser Ala Leu Glu
 465 470 475 480
 Gln Lys Ala Pro Ala Lys Glu Glu Ala Tyr Arg Trp Lys Ala Thr Thr
 485 490 495
 Val Val Glu Thr Val Lys Glu Val Val Ala Thr Pro Lys Ala Leu Lys
 500 505 510
 Lys Ala Leu Glu His Glu Lys Thr Pro Glu Leu Ser Ala Lys Leu Ala
 515 520 525
 Glu Glu Ser Ile Glu Arg Asp Ala Trp Ala Ala Glu Val Ser Lys Leu
 530 535 540
 Gln Leu Pro Lys Leu Val Glu Gln Val Ala Leu Asn Ala Trp Lys Glu
 545 550 555 560
 Gln Asp Gly Asn Gln Val Arg Leu His Leu Arg Pro Gly Gln Arg His
 565 570 575
 Leu Asn Ser Pro Gly Ala Gln Lys Ala Leu Ala Glu Ala Leu Thr Ala
 580 585 590
 Leu Gln Gly Val Pro Val Glu Leu Thr Ile Ile Glu Asp Asn Pro
 595 600 605
 Ala Val Lys Thr Pro Leu Glu Trp Arg Gln Ala Ile Tyr Glu Glu Lys
 610 615 620
 Leu Ala Gln Ala Arg Glu Ala Ile Ile Ala Asp Asn Asn Ile Gln Thr
 625 630 635 640
 Leu Arg Arg Tyr Phe Asp Ala Asp Leu Asp Glu Glu Ser Ile Arg Pro
 645 650 655
 Ile

<210> 7716

<211> 625

<212> PRT

<213> *Enterobacter cloacae*

<400> 7716

Met Lys Gly Gln Glu Thr Arg Gly Phe Gln Ser Glu Val Lys Gln Leu
 1 5 10 15
 Leu His Leu Met Ile His Ser Leu Tyr Ser Asn Lys Glu Ile Phe Leu
 20 25 30
 Arg Glu Leu Ile Ser Asn Ala Ser Asp Ala Ala Asp Lys Leu Arg Phe
 35 40 45
 Arg Ala Leu Ser Asn Pro Asp Leu Tyr Glu Gly Asp Gly Glu Leu Arg
 50 55 60
 Val Arg Val Ser Phe Asn Lys Glu Asn Arg Thr Leu Thr Ile Ala Asp
 65 70 75 80
 Asn Gly Ile Gly Met Asn Arg Asp Glu Val Ile Asp His Leu Gly Thr
 85 90 95
 Ile Ala Lys Ser Gly Thr Lys Ala Phe Leu Glu Ser Met Gly Ser Asp
 100 105 110
 Gln Ala Lys Asp Ser Gln Leu Ile Gly Gln Phe Gly Val Gly Phe Tyr
 115 120 125
 Ser Ala Phe Ile Val Ala Asp Lys Val Thr Val Arg Thr Arg Ala Ala
 130 135 140
 Gly Asp Ser Ala Glu Asn Gly Val Leu Trp Glu Ser Lys Gly Glu Gly
 145 150 155 160
 Glu Tyr Thr Val Asp Asp Ile Thr Lys Ala Asp Arg Gly Thr Glu Ile
 165 170 175
 Thr Leu His Leu Arg Glu Gly Glu Tyr Asp Phe Leu Asn Asp Trp Arg
 180 185 190
 Val Arg Ser Ile Ile Ser Lys Tyr Ser Asp His Ile Ala Leu Pro Val
 195 200 205
 Glu Ile Glu Lys Gln Glu Glu Lys Asp Gly Glu Thr Val Val Ser Trp
 210 215 220
 Glu Lys Ile Asn Lys Ala Gln Ala Leu Trp Thr Arg Asn Lys Ala Glu
 225 230 235 240
 Ile Lys Asp Asp Glu Tyr Asn Glu Phe Tyr Lys His Ile Ala His Asp
 245 250 255
 Phe Thr Asp Pro Leu Thr Trp Ser His Asn Arg Val Glu Gly Lys Gln
 260 265 270
 Glu Tyr Thr Ser Leu Leu Tyr Ile Pro Ala Gln Ala Pro Trp Asp Met
 275 280 285
 Trp Asn Arg Asp His Lys His Gly Leu Lys Leu Tyr Val Gln Arg Val
 290 295 300
 Phe Ile Met Asp Asp Ala Glu Gln Phe Met Pro Asn Tyr Leu Arg Phe
 305 310 315 320
 Val Arg Gly Leu Ile Asp Ser Asn Asp Leu Pro Leu Asn Val Ser Arg
 325 330 335
 Glu Ile Leu Gln Asp Ser Thr Val Thr Arg Asn Leu Arg Asn Ala Leu
 340 345 350
 Thr Lys Arg Ala Leu Gln Met Leu Glu Lys Leu Ala Lys Asp Asp Ala
 355 360 365
 Glu Lys Tyr Gln Thr Phe Trp Lys Gln Phe Gly Leu Val Leu Lys Glu
 370 375 380
 Gly Pro Ala Glu Asp Thr Ala Asn Val Glu Ala Ile Ala Lys Leu Leu
 385 390 395 400
 Arg Phe Ala Ser Thr His Asn Asp Ser Ser Ala Gln Thr Val Ser Leu
 405 410 415
 Glu Glu Tyr Val Ser Arg Met Lys Glu Gly Gln Glu Lys Ile Tyr Tyr
 420 425 430
 Ile Thr Ala Asp Ser Tyr Ala Ala Ala Lys Ser Ser Pro His Leu Glu

435 440 445
 Leu Leu Arg Lys Lys Gly Ile Glu Val Leu Leu Leu Ser Asp Arg Ile
 450 455 460
 Asp Glu Trp Met Met Asn Tyr Leu Thr Glu Phe Asp Gly Lys Ala Phe
 465 470 475 480
 Gln Ser Val Ala Lys Ala Asp Glu Ser Ile Asp Lys Leu Ala Asp Glu
 485 490 495
 Val Asp Glu Ser Ala Lys Glu Ala Glu Lys Ala Leu Glu Pro Phe Ile
 500 505 510
 Glu Arg Val Lys Thr Leu Leu Gly Asp Arg Val Lys Glu Val Arg Phe
 515 520 525
 Thr His Arg Leu Thr Asp Thr Pro Ala Ile Val Thr Thr Asp Ala Asp
 530 535 540
 Glu Met Ser Thr Gln Met Ala Lys Leu Phe Ala Ala Ala Gly Gln Ala
 545 550 555 560
 Val Pro Glu Val Lys Tyr Ile Phe Glu Leu Asn Pro Asp His Pro Leu
 565 570 575
 Val Lys Arg Ala Ala Asp Thr Gln Asp Asp Ala Arg Phe Ala Glu Trp
 580 585 590
 Val Glu Leu Leu Leu Asp Gln Ser Leu Leu Ala Glu Arg Gly Thr Leu
 595 600 605
 Glu Asp Pro Asn Leu Phe Ile Lys Arg Val Asn Ala Leu Leu Leu Ala
 610 615 620

625

<210> 7717

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 7717

Lys Ile Glu Ser Thr Phe Glu Gly Ile Phe Ala Met Arg Ile Ile Leu
 1 5 10 15
 Leu Gly Ala Pro Gly Ala Gly Lys Gly Thr Gln Ala Gln Phe Ile Met
 20 25 30
 Glu Lys Tyr Gly Ile Pro Gln Ile Ser Thr Gly Asp Met Leu Arg Ala
 35 40 45
 Ala Val Lys Ser Gly Ser Glu Leu Gly Lys Gln Ala Lys Asp Ile Met
 50 55 60
 Asp Ala Gly Lys Leu Val Thr Asp Glu Leu Val Ile Ala Leu Val Lys
 65 70 75 80
 Glu Arg Ile Ala Gln Glu Asp Cys Arg Asn Gly Phe Leu Leu Asp Gly
 85 90 95
 Phe Pro Arg Thr Ile Pro Gln Ala Asp Ala Met Lys Glu Ala Gly Ile
 100 105 110
 Asn Val Asp Tyr Val Leu Glu Phe Asp Val Pro Asp Glu Leu Ile Val
 115 120 125
 Asp Arg Ile Val Gly Arg Arg Val His Ala Ala Ser Gly Arg Val Tyr
 130 135 140
 His Ile Lys Phe Asn Pro Pro Lys Val Glu Gly Lys Asp Asp Val Thr
 145 150 155 160
 Gly Glu Glu Leu Thr Thr Arg Lys Asp Asp Gln Glu Glu Thr Val Arg
 165 170 175
 Lys Arg Leu Val Glu Tyr His Gln Met Thr Ala Pro Leu Ile Gly Tyr
 180 185 190
 Tyr Thr Lys Glu Ala Gln Ala Gly Asn Thr Lys Tyr Ala Lys Val Asp
 195 200 205
 Gly Thr Lys Ala Val Ala Asp Val Arg Ala Glu Leu Glu Lys Ile Leu
 210 215 220
 Gly

225

<210> 7718

<211> 470

<212> PRT

<213> *Enterobacter cloacae*

<400> 7718

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Thr His Arg His Asp Gly Val Thr Gly His His Pro Pro Leu Ile Ala
1      5      10      15
Leu Arg Ala Gly Phe Val Leu Pro Phe Pro Ala Arg Ile Leu Cys Thr
      20      25      30
Val Gln Thr Met Lys Phe Pro Gly Lys Arg Lys Ser Lys His Tyr Phe
      35      40      45
Pro Val Asp Ala Arg Asp Pro Leu Leu Gln Gln Ile Gln Gln Glu Ser
      50      55      60
Glu Thr Ser Ala Ala Trp Val Val Gly Ile Asp Gln Thr Leu Val Asp
65      70      75      80
Ile Glu Ala Lys Val Asp Asp Ala Phe Val Ala Arg Tyr Gly Leu Ser
      85      90      95
Ala Gly His Ser Leu Val Ile Glu Asp Asp Val Ala Glu Ala Leu Tyr
      100      105      110
Gln Glu Leu Val Arg Glu Asn Leu Ile Thr His Gln Phe Ala Gly Gly
      115      120      125
Thr Ile Gly Asn Thr Met His Asn Tyr Ser Val Leu Ala Asp Asp Arg
      130      135      140
Ser Val Leu Leu Gly Val Met Cys Ser Asn Ile Glu Ile Gly Gly Tyr
      145      150      155      160
Ala Tyr Arg Tyr Leu Cys Asn Thr Ser Ser Arg Thr Asp Leu Asn Tyr
      165      170      175
Leu Gln Gly Val Asp Gly Pro Ile Gly Arg Cys Phe Thr Leu Ile Ser
      180      185      190
Asp Ser Gly Glu Arg Thr Phe Ala Ile Ser Pro Gly His Met Asn Lys
      195      200      205
Leu Arg Ala Glu Ser Ile Pro Glu Glu Val Ile Ala Gly Ala Ser Ala
      210      215      220
Leu Val Leu Thr Ser Tyr Leu Val Arg Cys Lys Pro Gly Glu Pro Met
225      230      235      240
Pro Asp Ala Thr Met Lys Ala Ile Glu Tyr Ala Lys Lys Tyr Asn Val
      245      250      255
Pro Val Val Leu Thr Leu Gly Thr Lys Phe Val Ile Ala Asp Asn Pro
      260      265      270
Glu Trp Trp Gln Ala Phe Leu Lys Glu His Val Ser Ile Leu Ala Met
      275      280      285
Asn Glu Glu Glu Ala Glu Ala Leu Thr Gly Glu Ser Asp Pro Leu Leu
      290      295      300
Ala Ser Asp Lys Ala Leu Asp Trp Val Asp Leu Val Leu Cys Thr Ala
      305      310      315      320
Gly Pro Val Gly Leu Tyr Met Ala Gly Phe Thr Glu Glu Glu Ser Lys
      325      330      335
Arg Lys Thr Gln His Pro Leu Leu Pro Gly Ala Ile Ala Glu Phe Asn
      340      345      350
Gln Tyr Glu Phe Ser Arg Ala Met Arg His Lys Asp Cys Ile Asn Pro
      355      360      365
Leu Arg Ile Phe Ser His Ile Ala Pro Tyr Met Gly Gly Pro Glu Lys
      370      375      380
Ile Met Asn Thr Asn Gly Ala Gly Asp Gly Ala Leu Ala Ala Leu Leu
      385      390      395      400
His Asp Ile Thr Ala Asn Ala Tyr His Lys Thr Asn Val Pro Asn Ser
      405      410      415
Ser Lys His Thr Phe Asp Trp Leu Thr Tyr Ser Ser Leu Ala Gln Val

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Ala Tyr Trp Asp Arg
465 470

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<210> 7719
<211> 1161
<212> PRT
<213> Enterobacter cloacae
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[illegible]

370	375	380
Leu Leu Leu Ser Arg Ile	Leu Tyr Gln Gln Gln	Gln Thr Leu Pro Ser
385	390	395
Ala Asp Glu Leu Glu Asp Met Thr Asn Arg Ile	Ala Asp Leu Arg Leu	400
405	410	415
Glu Gln Phe Asp Val Asn Gln Gln Arg Asp	Ala Leu Phe Gln Ser Asp	420
420	425	430
Thr Phe Val Ala Lys Val Glu Glu Gly His Ser Gly Glu Val Asn Ala	435	440
440	445	450
Glu Val His Asp Ala Leu Leu Gln Val Val Asp Met Arg Arg Glu Leu	455	460
465	470	475
Leu Asp Gln Leu Asn Lys Gln Leu Gly Asn Gln Leu Met Met Ala Ile	480	485
485	490	495
Asn Leu Gln Ile Asn Gln Gln Gln Leu Val Ser Val Ser Lys Ser Leu	500	505
505	510	515
Gln Glu Ile Leu Thr Gln Gln Ile Phe Trp Val Asn Ser Asn Lys Pro	520	525
525	530	535
Met Asp Trp Asp Trp Phe Lys Ser Phe Pro Glu Thr Leu Lys Ser Gln	540	545
545	550	555
Ile Lys Ser Met Lys Ile Thr Val Asn Trp Glu Lys Ala Trp Pro Ala	560	565
565	570	575
Val Met Ile Ala Phe Leu Ala Gly Leu Pro Leu Leu Ile Ala Gly	580	585
585	590	595
Val Ile Arg Trp Arg Leu Lys Trp Leu Lys Gln Tyr Gln Ala Lys Leu	600	605
605	610	615
Ala Ser Glu Val Gly Gln Leu Arg Asn Asp Ser Gln Leu His Thr Pro	620	625
625	630	635
Lys Ala Ile Leu Ile Asp Leu Ile Arg Ala Leu Pro Val Cys Leu Leu	640	645
645	650	655
Ile Leu Ala Val Gly Leu Ile Leu Leu Thr Met Gln Leu Asn Ile Ser	660	665
665	670	675
Asp Leu Leu Trp Ala Phe Ser Lys Lys Leu Ala Leu Phe Trp Leu Val	680	685
685	690	695
Phe Gly Leu Cys Trp Lys Val Leu Glu Lys Asp Gly Val Ala Val Arg	700	705
705	710	715
His Phe Asn Met Pro Glu Lys Leu Thr Ser His Trp Arg Arg Gln Ile	720	725
725	730	735
Val Arg Ile Ser Leu Ala Leu Leu Pro Leu His Phe Trp Ser Val Val	740	745
745	750	755
Ala Glu Leu Ser Pro Leu His Leu Met Asp Asp Val Leu Gly Gln Leu	760	765
765	770	775
Val Ile Met Leu Asn Leu Leu Leu Ile Ala Val Leu Met Trp Pro Met	780	785
785	790	795
Cys Arg Asp Ser Trp Arg Asp Lys Glu Ser His Asn Leu Arg Leu Val	800	805
805	810	815
Thr Val Thr Val Leu Ala Ile Ile Pro Leu Ala Met Met Val Leu Thr	820	825
825	830	835
Ala Thr Gly Tyr Phe Tyr Thr Thr Leu Arg Leu Ser Gly Arg Trp Ile	840	845
845	850	855
Glu Thr Val Tyr Leu Val Ile Val Trp Asn Leu Leu Phe Gln Thr Val	860	865
865	870	875
Leu Arg Gly Leu Ser Val Ala Ala Arg Arg Ile Ala Tyr Arg Arg Ala	880	885
885	890	895
Val Ala Arg Arg Gln His Gln Val Lys Glu Gly Ala Glu Gly Ala Glu	900	905
905	910	915
Pro Gln Glu Glu Pro Thr Ile Ala Leu Glu Gln Val Asn Gln Gln Thr	920	925
925	930	935
Met Arg Ile Thr Met Leu Val Met Ile Ala Leu Phe Ala Val Met Phe	940	945
945	950	955
Trp Ala Ile Trp Ser Asp Leu Ile Thr Val Phe Ala Tyr Leu Asp Ser	960	965
965	970	975

Ile Thr Leu Trp Gln Tyr Asn Gly Thr Glu Ala Gly Ala Ala Val Met
 865 870 875 880
 Lys Ser Val Thr Met Gly Ser Leu Leu Phe Ala Leu Val Ser Ser Val
 885 890 895
 Val Ala Trp Ala Leu Ile Arg Asn Leu Pro Gly Leu Leu Glu Val Leu
 900 905 910
 Val Leu Ser Arg Leu Asn Leu Arg Gln Gly Ala Ser Tyr Ala Ile Thr
 915 920 925
 Thr Ile Leu Asn Tyr Val Ile Ile Ile Val Gly Ala Met Thr Val Phe
 930 935 940
 Gly Ser Leu Gly Val Ser Trp Asp Lys Leu Gln Trp Leu Ala Ala Ala
 945 950 955 960
 Leu Ser Val Gly Leu Gly Phe Gly Leu Gln Glu Ile Phe Gly Asn Phe
 965 970 975
 Val Ser Gly Leu Ile Ile Leu Phe Glu Arg Pro Val Arg Ile Gly Asp
 980 985 990
 Thr Val Thr Ile Gly Thr Phe Ser Gly Thr Val Ser Lys Ile Arg Ile
 995 1000 1005
 Arg Ala Thr Thr Ile Thr Asp Phe Asp Arg Lys Glu Val Ile Ile Pro
 1010 1015 1020
 Asn Lys Ala Phe Val Thr Glu Arg Leu Ile Asn Trp Ser Leu Ser Asp
 1025 1030 1035 1040
 Thr Thr Thr Arg Val Val Ile Arg Leu Gly Val Ala Tyr Gly Ser Asp
 1045 1050 1055
 Leu Asp Lys Val Lys Glu Val Leu Leu Glu Ala Ala Lys Ser His Pro
 1060 1065 1070
 Lys Val Met His Asp Pro Ala Pro Asp Val Phe Leu Thr Thr Phe Gly
 1075 1080 1085
 Pro Ser Thr Leu Asp His Glu Leu Arg Leu Tyr Val Arg Glu Leu Arg
 1090 1095 1100
 Asp Arg Ser Tyr Thr Val Asp Glu Leu Asn Arg Thr Ile Asp Arg Leu
 1105 1110 1115 1120
 Cys Arg Glu Asn Asn Ile Asn Ile Ala Phe Asn Gln Leu Glu Val His
 1125 1130 1135
 Leu Arg Asn Glu Lys Gly Asp Glu His Thr Glu Val Lys Arg Glu Ile
 1140 1145 1150
 Lys Gly Asp Asp Pro Thr Pro Ala
 1155 1160

<210> 7720

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 7720

Pro Phe Ser Leu Ile Thr Ile Arg Ile Met Gln Arg Thr Ile Leu Ile
 1 5 10 15
 Ile Ile Gly Trp Leu Ala Val Val Leu Gly Thr Leu Gly Val Val Leu
 20 25 30
 Pro Leu Leu Pro Thr Thr Pro Phe Ile Leu Leu Ala Ala Trp Cys Phe
 35 40 45
 Ala Arg Ser Ser Pro Arg Phe His His Trp Leu Leu Tyr Arg Ser Trp
 50 55 60
 Phe Gly Gly Tyr Leu Arg His Trp Gln Lys His Arg Ala Met Pro Pro
 65 70 75 80
 Gly Ala Lys Pro Arg Ala Ile Ala Phe Ile Leu Ile Thr Phe Ala Val
 85 90 95
 Ser Leu Trp Leu Val Lys Met Met Trp Val Arg Ile Leu Leu Leu Ala
 100 105 110
 Ile Leu Val Ser Leu Leu Leu Phe Met Trp Arg Ile Pro Val Val Asp
 115 120 125

Glu Lys Gln Gln Lys His
130 135

<210> 7721
<211> 206
<212> PRT
<213> *Enterobacter cloacae*

<400> 7721
Asp Ala Ile Leu Met Gln Thr Ser Pro Leu Leu Thr Gln Leu Met Glu
1 5 10 15
Ala Leu Arg Cys Leu Pro Gly Val Gly Pro Lys Ser Ala Gln Arg Met
20 25 30
Ala Phe Thr Leu Leu Gln Arg Asp Arg Ser Gly Gly Met Arg Leu Ala
35 40 45
Gln Ala Leu Thr Arg Ala Met Ser Glu Ile Gly His Cys Ala Asp Cys
50 55 60
Arg Thr Phe Thr Glu Gln Asp Val Cys Asn Ile Cys Thr Asn Pro Arg
65 70 75 80
Arg Gln Glu Asn Gly Gln Ile Cys Val Val Glu Ser Pro Ala Asp Ile
85 90 95
Tyr Ala Ile Glu Gln Thr Gly Gln Phe Ser Gly Arg Tyr Phe Val Leu
100 105 110
Met Gly His Leu Ser Pro Leu Asp Gly Ile Gly Pro Asp Asp Ile Gly
115 120 125
Leu Asp Arg Leu Glu Gln Arg Leu Glu Ser Glu Thr Ile Lys Glu Val
130 135 140
Ile Leu Ala Thr Asn Pro Thr Val Glu Gly Glu Ala Thr Ala Asn Tyr
145 150 155 160
Ile Ala Glu Leu Cys Ala Gln Tyr Gly Val Asp Ala Ser Arg Ile Ala
165 170 175
His Gly Val Pro Val Gly Gly Glu Leu Glu Met Val Asp Gly Thr Thr
180 185 190
Leu Ser His Ser Leu Ala Gly Arg His Lys Ile Ile Phe
195 200 205

<210> 7722
<211> 321
<212> PRT
<213> *Enterobacter cloacae*

<400> 7722
Met Ser Gln Ala Lys Thr Gly Ile Leu Leu Ala Asn Leu Gly Thr Pro
1 5 10 15
Glu Ala Pro Thr Pro Ala Ala Val Lys Arg Tyr Leu Arg Gln Phe Leu
20 25 30
Ser Asp Thr Arg Val Val Asp Thr Pro Arg Leu Leu Trp Trp Pro Leu
35 40 45
Leu Arg Gly Val Ile Leu Pro Ile Arg Ser Pro Arg Val Ala Lys Leu
50 55 60
Tyr Gln Ser Val Trp Met Glu Glu Gly Ser Pro Leu Met Val Tyr Ser
65 70 75 80
Arg Arg Gln Glu Lys Ala Leu Ala Ala Arg Leu Pro Asp Met Pro Val
85 90 95
Ala Leu Gly Met Ser Tyr Gly Lys Pro Ser Leu Glu Ser Ala Val Asp
100 105 110
Ser Leu Leu Ala Gln Gly Val Glu His Ile Val Val Leu Ala Leu Tyr
115 120 125
Pro Gln Tyr Ser Cys Ser Thr Val Ala Ala Val Trp Asp Glu Leu Gly
130 135 140
Arg Ile Leu Ala Thr Arg Arg Arg Ile Pro Gly Ile Thr Phe Ile Arg


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145          150          155          160
Asp Tyr Ala Asp Asn Glu Leu Tyr Ile Gln Ala Leu Ala Ser Ser Val
165          170          175
Arg Ala Ser Phe Glu Lys His Gly Glu Pro Asp Leu Leu Leu Ser
180          185          190
Tyr His Gly Ile Pro Gln Arg Phe Ala Asn Glu Gly Asp Asp Tyr Pro
195          200          205
Gln Arg Cys Arg Asp Thr Thr Arg Glu Leu Val Ser Ala Leu Gly Leu
210          215          220
Pro Pro Glu Lys Val Met Met Thr Phe Gln Ser Arg Phe Gly Arg Glu
225          230          235
Pro Trp Leu Thr Pro Tyr Thr Asp Glu Thr Leu Lys Met Leu Gly Glu
245          250          255
Lys Gly Val Lys His Ile Gln Val Met Ser Pro Gly Phe Ser Ala Asp
260          265          270
Cys Leu Glu Thr Leu Glu Glu Ile Ala Val Gln Asn Lys Glu Phe Phe
275          280          285
Met Glu Ala Gly Gly Thr Lys Tyr Glu Tyr Ile Pro Ala Leu Asn Asp
290          295          300
Ser Pro Glu His Ile Asp Met Met Val Ser Leu Val Thr Thr Arg Arg
305          310          315          320

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<210> 7723

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 7723

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Pro Ala Lys Ala Ile Arg Cys Trp Arg Leu Ile Arg Arg Trp Thr Gly
1          5          10          15
Trp Thr Trp Cys Ser Ala Pro Pro Gly Arg Ser Gly Cys Thr Trp Arg
20          25          30
Ala Ser Arg Lys Lys Arg Ala Ser Val Lys Pro Ser Thr Arg Cys Cys
35          40          45
Arg Ala Gln Ser Pro Asn Leu Thr Ser Met Ser Ser Ala Ala Leu Cys
50          55          60
Val Ile Lys Thr Ala Ser Thr Arg Cys Val Ser Ser Leu Thr Ser His
65          70          75          80
Arg Ile Trp Val Ala Leu Arg Arg Ser
85          90

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<210> 7724

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 7724

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Met Arg Ile Ser Gly Ser Asn Ser Ile Pro Thr Glu Thr Lys Asn Ser
1          5          10          15
Thr Ala Asn Ala Ser Arg Ser Gly Arg Val Ser Cys Ala Ala Arg Trp
20          25          30
Leu Ser Ser Asp Ser Phe Ser Thr Ile Pro Ala Lys Asn Ala Pro Ser
35          40          45
Ala Lys Glu Thr Ser Asn Ser Ser Thr Ala Pro Lys Ala Met Pro Ser
50          55          60
Ala Ser Ala Arg Thr Glu Ser Val Asn Ser Ser Arg Glu Pro Val Ala
65          70          75          80
Ala Leu Arg Asp Met Ile His Gly Thr Arg Arg Arg Pro Thr Ser Ile
85          90          95

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Met Met Ala Ile Asn Ala Thr Thr Leu Pro Met Val Met Leu Ile Ser
 100 105 110
 Ser Ala Ser Glu Ala Lys Pro Ile Phe Ser Phe Ser Ile Ile Pro Ala
 115 120 125
 Thr Ala Gly Ser Arg Thr Ser Val Asn Thr Ile Thr Arg Ser Ser Thr
 130 135 140
 Ile Ser Gln Pro Ile Ala Ile Cys Pro Arg Trp Leu Ser Ile Ser Cys
 145 150 155 160
 Leu Ser Ser Ser Ala Arg Ser Ser Thr Thr Val Leu Ala Val Glu Arg
 165 170 175
 His Ser Pro Asn Thr Ile Pro Val Met Ile Asp Gln Pro Ser Thr Ala
 180 185 190
 Glu Ser Ala Met Pro Ser Ser Val Ala Thr Pro Ile Trp Ala Ile Ala
 195 200 205
 Pro Gly Met Ala Ile Asp Phe Thr Ala Ile Arg Ser Phe Arg Glu Lys
 210 215 220
 Cys Ser Pro Thr Pro Asn Ile Ser Arg Ile Thr Pro Asn Ser Ala Ser
 225 230 235 240
 Ser Gly Ala Ser Leu Val Ser Ala Thr Lys Pro Gly Val Lys Gly Pro
 245 250 255
 Ala Ser Thr Pro Ala Ser Lys
 260

<210> 7725

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 7725

Tyr Pro Val Tyr Gly Gly Ser Pro Glu Cys Ala Pro Val Arg Pro
 1 5 10 15
 Arg Arg Gln Leu Pro Trp Ser Thr Asn Thr Ala Asp Ile Glu Pro Ala
 20 25 30
 Pro Gln Cys Val Gln Arg Pro Ala Pro Ala Glu Ser Gln Arg Arg Phe
 35 40 45
 Pro Gly Thr Ala Tyr Arg Ser Ser Cys Arg Ala Gln Arg Ala Cys Pro
 50 55 60
 Ala Gly Gly Arg Pro Ala Pro Ser Pro Asp Asp Gly Cys Thr Pro Ser
 65 70 75 80
 Ala Ala Ser Pro Leu Pro Ser Thr Arg Thr Asp Arg Ala Leu Pro His
 85 90 95
 Ala Gly Asn Glu Ser Ala Glu
 100

<210> 7726

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 7726

Ala Ala Asp Trp Phe Ala Ser Glu Trp His Leu Lys Ala Arg Arg Gln
 1 5 10 15
 Leu His Thr Ala Gly Asn Arg Gly His Phe Leu Phe Leu Gly Phe Val
 20 25 30
 Asp Thr Ala Ser Gly Ile Val Lys Arg Gly Cys Asn Gln Ile Phe Gln
 35 40 45
 His Leu Phe Val Val Phe Glu Gln Ala Arg Val Asp Phe His Ala Thr
 50 55 60
 Ala Val Met Arg Thr Val Asp Gly His Leu Asp Gln Thr Gly Thr Gly
 65 70 75 80
 Phe Thr Arg Asp Phe Gln Leu Ser Asp Leu Phe Leu His Leu Leu His

```

      85              90              95
Phe Phe Leu His Leu Leu Ser Leu Leu His Gln Ala Thr Gln Thr Ala
      100              105              110
Phe Ser Thr Lys His Arg Leu Leu Ser Ser Phe Thr Leu Arg Ile Thr
      115              120              125
Thr Val Ser Gln Thr His Asp Gln Met Gly Arg Ile Leu Ser Ser Ser
      130              135              140
Arg Ser Ala Ser Lys Tyr Arg Arg Arg Val Trp Met Leu Leu Ser Ala
      145              150              155              160
Ile Ile Ala Ser Arg Ala Cys Ala Ser Phe Ser Ser
      165              170

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<210> 7727

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7727

```

Thr Ala Thr Leu Pro Leu Glu Ser Ala Leu Lys Thr Ala Leu Leu Leu
1      5      10      15
Glu Arg Leu Gln Asn Gln Leu Ile Ala Leu Arg Ala Gln Ala Thr Pro
      20      25      30
Leu Met Gly His Ala Thr Leu Lys Pro Arg Phe Asp Arg Gln Leu Phe
      35      40      45
Arg Thr Arg Ser Thr Val Ile Gln Asp Tyr Leu Ala Glu Ala Gln Thr
      50      55      60
Asn Leu Asp Glu Leu Arg His Ala Val Glu Ser Glu Gln Gln Glu Gln
65      70      75      80
Val Ala Trp Leu Ala Glu His Leu Thr Glu Gln Ile Thr Ala Leu His
      85      90      95
Arg Glu Ile Ala Ala Trp Pro Leu Arg Ala Trp Asp Ser Ala Ser Pro
      100      105      110
Gly Leu Gly Lys Trp Gln Arg Lys Arg Leu Glu Asn Gln Glu Phe Glu
      115      120      125
Arg Arg Leu Phe Glu Met Lys Arg Glu Arg Glu Ala Arg Leu Asn Ile
      130      135      140
Ser Glu Thr Leu Glu Glu Gln Gln Leu Leu Met Arg Glu Ile Ser Ala
145      150      155      160
Leu Glu Gly Arg Ile Val Arg Cys Arg Gln Ala Leu Asp Glu Ile Glu
      165      170      175
Arg Val Ile Glu Arg Leu Thr Arg
      180      185

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<210> 7728

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 7728

```

Gln Glu Pro Leu Met Ser Leu Glu Asn Ala Pro Asp Glu Val Lys Leu
1      5      10      15
Ala Val Asp Leu Ile Met Leu Leu Glu Asn His Ala Ile Pro Ala Glu
      20      25      30
Thr Val Leu Lys Ala Leu Glu Ile Val Arg Arg Asp Phe Glu Gly Lys
      35      40      45
Leu Pro Pro His Pro Ala Leu Ser Pro Glu Gly Arg Gly Lys
      50      55      60

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<210> 7729

<211> 422

<212> PRT

<213> Enterobacter cloacae

<400> 7729

Tyr Lys Arg Ser Asn Gly Phe Leu Asp Ser Gly Pro Leu Ile Asn Leu
 1 5 10 15
 Lys Ser Asp Thr Arg Gly Leu His Met Asn Lys Asn Arg Gly Leu Thr
 20 25 30
 Pro Leu Ala Val Val Leu Met Leu Ser Gly Ser Leu Ala Leu Thr Gly
 35 40 45
 Cys Asp Asp Lys Glu Ala Gln Gln Gly Ala Gln Gln Val Pro Glu Val
 50 55 60
 Gly Val Val Thr Leu Lys Ser Glu Pro Leu Gln Met Thr Thr Glu Leu
 65 70 75 80
 Pro Gly Arg Thr Ser Ala Tyr Arg Ile Ala Glu Val Arg Pro Gln Val
 85 90 95
 Ser Gly Ile Ile Leu Lys Arg Asn Phe Thr Glu Gly Gly Asp Val Lys
 100 105 110
 Ala Gly Glu Ser Leu Tyr Gln Ile Asp Pro Ala Thr Tyr Gln Ala Ser
 115 120 125
 Tyr Glu Ser Ala Lys Gly Asp Leu Ala Lys Ala Glu Ala Ala Ala Lys
 130 135 140
 Ile Ser Gln Leu Thr Leu Asn Arg Tyr Lys Lys Leu Leu Gly Thr Gln
 145 150 155 160
 Tyr Ile Ser Gln Gln Asp Tyr Asp Ser Ala Leu Ala Asp Ala Gln Gln
 165 170 175
 Ala Asn Ala Ala Val Val Ala Ala Lys Ala Ala Val Glu Thr Ala Arg
 180 185 190
 Ile Asn Leu Ala Tyr Thr Lys Val Thr Ser Pro Ile Ser Gly Arg Ile
 195 200 205
 Gly Lys Ser Ala Val Thr Glu Gly Ala Leu Val Gln Asn Gly Gln Thr
 210 215 220
 Asn Ala Leu Ala Thr Val Gln Gln Leu Asp Pro Ile Tyr Val Asp Val
 225 230 235 240
 Thr Gln Ser Ser Asn Asp Phe Leu Arg Leu Lys Gln Glu Leu Ala Ser
 245 250 255
 Gly Gln Leu Lys Gln Glu Asn Gly Lys Ala Lys Val Glu Leu Val Thr
 260 265 270
 Asn Asp Gly Ile Glu Phe Ser Gln Thr Gly Thr Leu Glu Phe Ser Asp
 275 280 285
 Val Thr Val Asp Gln Thr Thr Gly Ser Ile Thr Ile Arg Ala Ile Phe
 290 295 300
 Pro Asn Pro Asp Lys Thr Leu Leu Pro Gly Met Phe Val Arg Ala Arg
 305 310 315 320
 Leu Glu Glu Gly Thr Asn Pro Ser Ala Ile Leu Val Pro Gln Gln Gly
 325 330 335
 Val Thr Arg Thr Pro Arg Gly Asp Ala Ser Ala Leu Val Val Gly Ala
 340 345 350
 Asp Asn Lys Val Glu Met Arg Asn Ile Thr Ala Thr Gln Ala Ile Gly
 355 360 365
 Asp Lys Trp Leu Val Thr Glu Gly Leu Lys Asp Gly Asp Arg Val Ile
 370 375 380
 Ile Thr Gly Leu Gln Lys Val Arg Pro Gly Ala Gln Val Lys Ala Gln
 385 390 395 400
 Glu Val Lys Ser Asp Asp Lys Gln Gln Ala Ser Ala Ala Gly Gln Ser
 405 410 415
 Glu Gln Thr Lys Ser
 420

<210> 7730

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 7730

```

Ser Lys Leu Met Asn Thr Trp Thr Thr Pro Leu Cys Cys Ser Ala Ala
1      5      10      15
Thr Ala Leu Thr His Arg Ile Cys Arg Asn Gly Val Asn Gln Glu Thr
      20      25      30
Ala Tyr Phe Ala Ala Ser Leu Met Ser Ala Glu Leu Ile Arg Leu Val
      35      40      45
Phe Pro Val Lys Ile Ile Thr Ile Thr Lys Val Asn Leu Cys Leu Ile
      50      55      60
Asn His
65

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<210> 7731

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 7731

```

Asn Asp Ser Arg Glu Val Pro Met Ser Glu Glu Lys Gln Lys Met Ile
1      5      10      15
Ala Gly Glu Tyr Tyr Arg Pro Gly Asp Asp Thr Leu Arg Ala Asn Arg
      20      25      30
Leu Arg Ala Arg His Leu Val His Arg Tyr Asn His Thr Ala Pro Asp
      35      40      45
Glu Lys Ala Glu Arg Arg Ala Leu Leu Ala Asp Leu Leu Gly Gln Ser
      50      55      60
Glu Gly Ala Tyr Ile Glu Pro Ser Phe Arg Cys Asp Tyr Gly Tyr Asn
      65      70      75      80
Ile Tyr Leu Gly Lys Asn Phe Tyr Ala Asn Phe Asp Cys Val Met Leu
      85      90      95
Asp Val Cys Pro Val Arg Ile Gly Asp Asn Cys Met Leu Ala Pro Gly
      100      105      110
Val His Ile Tyr Thr Ala Thr His Pro Leu Asp Ala Thr Glu Arg Asn
      115      120      125
Ser Gly Leu Glu Tyr Gly Lys Pro Val Thr Ile Gly Asp Asn Val Trp
      130      135      140
Ile Gly Gly Arg Ala Ile Ile Asn Pro Gly Val Thr Ile Gly Asp Asn
      145      150      155      160
Ala Val Ile Ala Ser Gly Ala Val Val Thr Lys Asp Val Pro Ala Asn
      165      170      175
Ala Val Val Gly Gly Asn Pro Ala Lys Ile Ile Lys Met Leu
      180      185      190

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<210> 7732

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 7732

```

Ser Leu His Tyr Phe Thr Leu Leu Ala Ile Ile Gly Phe Val Leu Ala
1      5      10      15
Ser Ala Phe Ser Val Ile Leu Val Tyr Ala Gln Glu Leu Leu Pro Gly
      20      25      30
Arg Ile Gly Met Val Ser Gly Leu Phe Phe Gly Phe Ala Phe Gly Met
      35      40      45
Gly Gly Leu Gly Ala Ala Val Leu Gly Met Val Ala Asp His Thr Ser
      50      55      60
Ile Phe Leu Val Tyr Lys Ile Cys Ala Phe Leu Pro Leu Leu Gly Met
      65      70      75      80

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Leu Thr Ile Phe Leu Pro Asp Asn Arg His Lys Ala
85 90

<210> 7733

<211> 1038

<212> PRT

<213> *Enterobacter cloacae*

<400> 7733

Asp Met Pro Asn Phe Phe Ile Asp Arg Pro Ile Phe Ala Trp Val Ile
1 5 10 15
Ala Ile Ile Ile Met Leu Ala Gly Gly Leu Ala Ile Leu Lys Leu Pro
20 25 30
Val Ala Gln Tyr Pro Thr Ile Ala Pro Pro Ala Val Thr Ile Ser Ala
35 40 45
Thr Tyr Pro Gly Ala Asp Ala Lys Thr Val Gln Asp Thr Val Thr Gln
50 55 60
Val Ile Glu Gln Asn Met Asn Gly Ile Asp Asn Leu Met Tyr Met Ser
65 70 75 80
Ser Asn Ser Asp Ser Thr Gly Thr Val Gln Ile Thr Leu Thr Phe Glu
85 90 95
Ser Gly Thr Asp Ala Asp Ile Ala Gln Val Gln Val Gln Asn Lys Leu
100 105 110
Gln Leu Ala Met Pro Leu Leu Pro Gln Glu Val Gln Gln Gln Gly Val
115 120 125
Ser Val Glu Lys Ser Ser Ser Ser Phe Leu Met Val Val Gly Val Ile
130 135 140
Asn Thr Asn Gly Thr Met Thr Gln Glu Asp Ile Ser Asp Tyr Val Gly
145 150 155 160
Ala Asn Met Lys Asp Ala Ile Ser Arg Thr Ser Gly Val Gly Asp Val
165 170 175
Gln Leu Phe Gly Ser Gln Tyr Ala Met Arg Ile Trp Met Asp Pro Asn
180 185 190
Lys Leu Asn Asn Phe Gln Leu Thr Pro Val Asp Val Ile Asn Ala Ile
195 200 205
Lys Ala Gln Asn Ala Gln Val Ala Ala Gly Gln Leu Gly Gly Thr Pro
210 215 220
Pro Val Lys Gly Gln Gln Leu Asn Ala Ser Ile Ile Ala Gln Thr Arg
225 230 235 240
Leu Thr Ser Ala Asp Glu Phe Ser Lys Ile Leu Leu Lys Val Asn Gln
245 250 255
Asp Gly Ser Gln Val Arg Leu Arg Asp Val Ala Lys Val Glu Leu Gly
260 265 270
Gly Glu Asn Tyr Asp Val Ile Ala Lys Phe Asn Gly Lys Pro Ala Ser
275 280 285
Gly Leu Gly Ile Lys Leu Ala Thr Gly Ala Asn Ala Leu Asp Thr Ala
290 295 300
Thr Ala Ile Arg Ala Glu Leu Lys Lys Met Glu Pro Phe Phe Pro Ser
305 310 315 320
Gly Leu Lys Ile Val Tyr Pro Tyr Asp Thr Thr Pro Phe Val Lys Ile
325 330 335
Ser Ile His Glu Val Val Lys Thr Leu Val Glu Ala Ile Ile Leu Val
340 345 350
Phe Leu Val Met Tyr Leu Phe Leu Gln Asn Phe Arg Ala Thr Leu Ile
355 360 365
Pro Thr Ile Ala Val Pro Val Val Leu Leu Gly Thr Phe Ala Val Leu
370 375 380
Ala Ile Phe Gly Tyr Ser Ile Asn Thr Leu Thr Met Phe Gly Met Val
385 390 395 400
Leu Ala Ile Gly Leu Leu Val Asp Asp Ala Ile Val Val Val Glu Asn
405 410 415

Val Glu Arg Val Met Ala Glu Glu Gly Leu Pro Pro Lys Glu Ala Thr
 420 425 430
 Arg Lys Ser Met Gly Gln Ile Gln Gly Ala Leu Val Gly Ile Ala Met
 435 440 445
 Val Leu Ser Ala Val Phe Ile Pro Met Ala Phe Phe Gly Gly Ser Thr
 450 455 460
 Gly Ala Ile Tyr Arg Gln Phe Ser Ile Thr Ile Val Ser Ala Met Ala
 465 470 475 480
 Leu Ser Val Leu Val Ala Leu Ile Leu Thr Pro Ala Leu Cys Ala Thr
 485 490 495
 Met Leu Lys Pro Ile Gln Lys Gly Gly His Gly Glu His Lys Gly Phe
 500 505 510
 Phe Gly Trp Phe Asn Arg Met Phe Asp Lys Ser Thr His His Tyr Thr
 515 520 525
 Asp Ser Val Gly Asn Ile Leu Arg Ser Thr Gly Arg Tyr Leu Leu Leu
 530 535 540
 Tyr Ile Ile Ile Val Val Gly Met Ala Phe Leu Phe Val Arg Leu Pro
 545 550 555 560
 Ser Ser Phe Leu Pro Asp Glu Asp Gln Gly Val Phe Leu Ser Met Ala
 565 570 575
 Gln Leu Pro Ala Gly Ala Thr Gln Glu Arg Thr Gln Lys Val Leu Asp
 580 585 590
 Glu Met Thr Asp Tyr Phe Leu Thr Lys Glu Lys Asp Asn Val Glu Ser
 595 600 605
 Val Phe Ala Val Asn Gly Phe Gly Phe Ala Gly Arg Gly Gln Asn Thr
 610 615 620
 Gly Ile Ala Phe Val Ser Leu Lys Asp Trp Ser Glu Arg Pro Gly Ala
 625 630 635 640
 Glu Asn Lys Val Glu Ala Ile Thr Gly Arg Ala Met Gly Thr Phe Ser
 645 650 655
 Gln Ile Lys Asp Ala Met Val Phe Ala Phe Asn Leu Pro Ala Ile Val
 660 665 670
 Glu Leu Gly Thr Ala Thr Gly Phe Asp Phe Gln Leu Ile Asp Gln Gly
 675 680 685
 Gly Leu Gly His Glu Lys Leu Thr Gln Ala Arg Asn Gln Leu Phe Gly
 690 695 700
 Glu Val Ala Lys His Pro Asp Leu Leu Val Gly Val Arg Pro Asn Gly
 705 710 715 720
 Leu Glu Asp Thr Pro Gln Tyr Lys Ile Asp Ile Asp Gln Glu Lys Ala
 725 730 735
 Gln Ala Leu Gly Val Ser Ile Ser Asp Ile Asn Thr Thr Leu Gly Ala
 740 745 750
 Ala Trp Gly Gly Ser Tyr Val Asn Asp Phe Ile Asp Arg Gly Arg Val
 755 760 765
 Lys Lys Val Tyr Val Met Ser Glu Ala Gln Tyr Arg Met Leu Pro Asn
 770 775 780
 Asp Ile Asn Asn Trp Tyr Val Arg Gly Ser Asp Gly Gln Met Val Pro
 785 790 795 800
 Phe Ser Ala Phe Ser Thr Ser Arg Trp Glu Tyr Gly Ser Pro Arg Leu
 805 810 815
 Glu Arg Tyr Asn Gly Leu Pro Ser Met Glu Ile Leu Gly Gln Ala Ala
 820 825 830
 Pro Gly Arg Ser Thr Gly Glu Ala Met Asn Leu Met Glu Glu Leu Ala
 835 840 845
 Ser Lys Leu Pro Ala Gly Ile Gly Tyr Asp Trp Thr Gly Met Ser Tyr
 850 855 860
 Gln Glu Arg Leu Ser Gly Asn Gln Ala Pro Ala Leu Tyr Ala Ile Ser
 865 870 875 880
 Leu Ile Val Val Phe Leu Cys Leu Ala Ala Leu Tyr Glu Ser Trp Ser
 885 890 895
 Ile Pro Phe Ser Val Met Leu Val Val Pro Leu Gly Val Ile Gly Ala

900 905 910
 Leu Leu Ala Thr Phe Arg Gly Leu Thr Asn Asp Val Tyr Phe Gln
 915 920 925
 Val Gly Leu Leu Thr Thr Ile Gly Leu Ser Ala Lys Asn Ala Ile Leu
 930 935 940
 Ile Val Glu Phe Ala Lys Asp Leu Met Glu Lys Glu Gly Lys Gly Leu
 945 950 955 960
 Ile Glu Ala Thr Leu Glu Ala Val Arg Met Arg Leu Arg Pro Ile Leu
 965 970 975
 Met Thr Ser Leu Ala Phe Ile Leu Arg Arg Tyr Ala Ala Gly Tyr Gln
 980 985 990
 Leu Arg Arg Gly Leu Arg Arg Thr Lys Arg Gly Lys Tyr Gly Cys Asn
 995 1000 1005
 Gly Trp Tyr Gly His Gly Asp Arg Ser Arg His Leu Leu Arg Thr Gly
 1010 1015 1020
 Val Leu Arg Gly Gly Ser Ser Pro Leu Gln Pro Gln Lys
 1025 1030 1035

<210> 7734

<211> 580

<212> PRT

<213> Enterobacter cloacae

<400> 7734

Thr Ile Asn Arg Leu Phe Gly Ile Cys Thr Lys Asn Gly Ser Pro Ile
 1 5 10 15
 Ala Lys Gly Asp Gly Met His His Ala Thr Pro Leu Ile Thr Thr Ile
 20 25 30
 Val Gly Gly Leu Val Leu Ala Phe Ile Leu Gly Met Ile Ala Asn Lys
 35 40 45
 Leu Arg Ile Ser Pro Leu Val Gly Tyr Leu Leu Ala Gly Val Leu Ala
 50 55 60
 Gly Pro Phe Thr Pro Gly Phe Val Ala Asp Thr Lys Leu Ala Pro Glu
 65 70 75 80
 Leu Ala Glu Leu Gly Val Ile Leu Leu Met Phe Gly Val Gly Leu His
 85 90 95
 Phe Ser Leu Lys Asp Leu Met Ala Val Lys Ser Ile Ala Ile Pro Gly
 100 105 110
 Ala Ile Ala Gln Ile Gly Val Ala Thr Leu Leu Gly Met Ala Leu Ser
 115 120 125
 Ala Val Leu Gly Trp Ser Ile Met Thr Gly Ile Val Phe Gly Leu Cys
 130 135 140
 Leu Ser Thr Ala Ser Thr Val Val Leu Leu Arg Ala Leu Glu Glu Arg
 145 150 155 160
 Gln Leu Ile Asp Ser Gln Arg Gly Gln Ile Ala Ile Gly Trp Leu Ile
 165 170 175
 Val Glu Asp Leu Val Met Val Leu Thr Leu Val Leu Leu Pro Ala Val
 180 185 190
 Ala Gly Met Met Glu Lys Glu Asn Ile Gly Phe Ala Ser Leu Ala Leu
 195 200 205
 Asp Met Ser Ile Thr Ile Gly Lys Val Val Ala Phe Ile Ala Ile Met
 210 215 220
 Met Leu Val Gly Arg Arg Leu Val Pro Trp Ile Met Ser Arg Ser Ala
 225 230 235 240
 Ala Thr Gly Ser Arg Glu Leu Phe Thr Leu Ser Val Leu Ala Leu Ala
 245 250 255
 Leu Gly Ile Ala Phe Gly Ala Val Glu Leu Phe Asp Val Ser Phe Ala
 260 265 270
 Leu Gly Ala Phe Phe Ala Gly Met Val Leu Asn Glu Ser Glu Leu Ser
 275 280 285
 His Arg Ala Ala His Asp Thr Leu Pro Leu Arg Asp Ala Phe Ala Val

290 295 300
 Leu Phe Phe Val Ser Val Gly Met Leu Phe Asp Pro Leu Ile Leu Ile
 305 310 315 320
 Gln Gln Pro Leu Ala Val Leu Gly Thr Leu Ala Ile Ile Ile Phe Gly
 325 330 335
 Lys Ser Val Ala Ala Phe Phe Leu Val Arg Met Phe Gly His Ser Pro
 340 345 350
 Arg Thr Ala Leu Thr Ile Ala Ala Ser Leu Ala Gln Ile Gly Glu Phe
 355 360 365
 Ala Phe Ile Leu Ala Gly Leu Gly Met Ala Leu Asn Leu Leu Pro Gln
 370 375 380
 Ala Gly Gln Asn Leu Val Leu Ala Gly Ala Ile Leu Ser Ile Met Leu
 385 390 395 400
 Asn Pro Val Leu Phe Ala Leu Leu Glu Lys Tyr Leu Glu Lys Thr Glu
 405 410 415
 Thr Leu Glu Glu Leu Thr Leu Glu Glu Ala Thr Glu Glu Glu Lys Gln
 420 425 430
 Ile Pro Val Asp Ile Cys Asn His Ala Leu Leu Val Gly Phe Gly Arg
 435 440 445
 Val Gly Ser Leu Leu Gly Glu Lys Leu Met Ala Gln Gly Ile Pro Leu
 450 455 460
 Val Val Ile Glu Thr Ser Arg Thr Arg Val Asp Glu Leu Arg Glu Arg
 465 470 475 480
 Gly Ile Arg Ala Val Leu Gly Asn Ala Ala Asn Glu Glu Ile Met Asn
 485 490 495
 Leu Ala His Leu Asp Cys Ala Arg Trp Leu Leu Leu Thr Ile Pro Asn
 500 505 510
 Gly Tyr Glu Ala Gly Glu Ile Val Ala Thr Ala Arg Glu Lys Cys Pro
 515 520 525
 His Ile Glu Ile Ile Ala Arg Ala His Tyr Asp Asp Glu Val Glu Tyr
 530 535 540
 Ile Thr Glu Arg Gly Ala Asn Gln Val Val Met Gly Glu Arg Glu Ile
 545 550 555 560
 Ala Asn Thr Met Leu Thr Met Leu Thr Lys Pro Pro Val Glu Glu Ala
 565 570 575
 Val Thr Gly
 580

<210> 7735

<211> 138

<212> PRT

<213> *Enterobacter cloacae*

<400> 7735

Cys Ser Val Ser Lys Lys Ser Leu Arg Arg Gly Cys Ala Met Asp Glu
 1 5 10 15
 Tyr Ser Pro Lys Arg His Asp Ile Ala Gln Leu Lys Phe Leu Cys Glu
 20 25 30
 Ser Leu Tyr His Asp Cys Leu Ala Asn Leu Glu Glu Ser Asn His Gly
 35 40 45
 Trp Val Asn Asp Pro Thr Ser Ala Ile Asn Leu Gln Leu Asn Glu Leu
 50 55 60
 Ile Glu His Ile Ala Thr Phe Ala Leu Asn Tyr Lys Ile Lys Tyr Asn
 65 70 75 80
 Glu Asp Asn Lys Leu Ile Glu Gln Ile Asp Glu Tyr Leu Asp Asp Thr
 85 90 95
 Phe Met Leu Phe Ser Ser Tyr Gly Ile Asn Ala Gln Asp Leu Gln Lys
 100 105 110
 Trp Arg Lys Ser Gly Asn Arg Leu Phe Arg Cys Phe Thr Asn Val Ser
 115 120 125
 Arg Ala Asn Pro Val Ser Leu Ser Cys

130

135

<210> 7736

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 7736

Gly Glu Phe Met Ser Asp Lys Pro Leu Thr Lys Val Asp Tyr Leu Met
 1 5 10 15
 Arg Leu Arg Arg Cys Gln Ser Ile Asp Thr Leu Glu Arg Val Ile Glu
 20 25 30
 Lys Asn Lys Tyr Glu Leu Ser Asp Asn Glu Leu Ala Val Phe Tyr Ser
 35 40 45
 Ala Ala Asp His Arg Leu Ala Glu Leu Thr Met Asn Lys Leu Tyr Asp
 50 55 60
 Lys Ile Pro Ser Ser Val Trp Lys Phe Val Arg
 65 70 75

<210> 7737

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 7737

Arg Gln Lys Met Thr Glu Ile Gln Arg Leu Leu Thr Ala Thr Ile Asp
 1 5 10 15
 Asp Leu Asn Thr Arg Glu Lys Arg Asp Asn Arg Pro Arg Phe Ser Ile
 20 25 30
 Ser Phe Ile Arg Lys His Pro Gly Leu Phe Val Ala Met Tyr Ala Ala
 35 40 45
 Trp Leu Ala Thr Leu Ile Val Met Leu Lys Ser Glu Thr Leu Val Asp
 50 55 60
 Ser Val Trp Leu Leu Val Val Leu Phe Val Val Phe Asn Ala Phe Phe
 65 70 75 80
 Phe Phe Asp Val Asn Pro Arg Tyr Arg Tyr Glu Asp Ile Asp Val Leu
 85 90 95
 Asp Phe Arg Val Cys Tyr Asn Gly Glu Trp Tyr Asn Thr Arg Tyr Val
 100 105 110
 Pro Lys Glu Leu Ile Asp Ser Ile Leu His Ser Pro Ala Val Glu Ala
 115 120 125
 Gly Gln Lys Glu Lys Leu Gln Lys Met Val Thr Thr Lys Gly Gln Leu
 130 135 140
 Ser Phe Tyr Asp Val Phe Thr Leu Ser Arg Pro Thr Ala Ala
 145 150 155

<210> 7738

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 7738

Ser Gly Asp Leu Leu Asn Ile Met Glu Ile Lys Met Asn Thr Phe Asn
 1 5 10 15
 Glu Phe Gly Gln Pro Val Gly Glu Ser Leu Ile Asp Trp Gln Pro Arg
 20 25 30
 Pro His Pro Ser Arg Val Val Leu Gln Gly Arg Tyr Cys Arg Leu Glu
 35 40 45
 Pro Leu Arg Met Glu His Ala His Ala Leu Phe Ser Ala Tyr Ser Val
 50 55 60
 Ala Gly Asp Thr Arg Ser Trp Thr Trp Leu Leu Arg Glu Pro Asp Ala

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65              70              75              80
Thr Ala Glu Glu Phe Ala Glu Trp Val Ala Ser Val Ser Glu Leu Ala
      85
Asp Pro Ile His Phe Thr Val Ile Asp Asn Gln Thr Gln Ser Pro Val
      100
Gly Thr Leu Ser Leu Met Arg Ile Asp Pro Lys Asn Gly Val Val Glu
      115
Val Gly His Val His Phe Ser Ser Leu Leu Ser Arg Thr Pro Met Ser
      130
Thr Glu Ala Gln Tyr Leu Leu Met Arg Tyr Val Phe Asp Thr Leu Gly
      145
Tyr Arg Arg Tyr Glu Trp Lys Cys Asn Ser Leu Asn Glu Pro Ser Arg
      165
Lys Ala Ala Leu Arg Leu Gly Phe Gln Phe Glu Gly Arg Phe Arg Gln
      180
Ala Leu Val Ile Lys Gly Arg Asn Arg Asp Thr Asp Trp Phe Ser Ile
      195
Leu Asp Lys Glu Trp Pro Ala Leu Ala Ser Ala Phe Glu Ser Trp Leu
      210
Ala Thr Asp Asn Phe Thr Ala Asp Gly Lys Gln Lys Arg Ser Leu Glu
      225
Ser Trp Arg Glu Thr Arg Val
      245

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<210> 7739

<211> 266

<212> PRT

<213> *Enterobacter cloacae*

<400> 7739

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Arg Tyr Ala Gln Glu Leu Gln Met Ala Arg Ser Trp Val Arg Leu Phe
1              5              10              15
Ala Gly Ala Thr Leu Thr Leu Ser Leu Thr Gly His Ala Leu Ala Asp
      20              25              30
Glu Gly Lys Ile Thr Val Phe Ala Ala Ala Ser Leu Thr Asn Ala Met
      35              40              45
Gln Asp Ile Ala Ala Val Tyr Lys Lys Glu Lys Asn Val Glu Val Val
      50              55              60
Ser Ser Phe Ala Ser Ser Thr Leu Ala Arg Gln Ile Glu Ala Gly
65              70              75              80
Ala Pro Ala Asp Leu Phe Ile Ser Ala Asp Gln Lys Trp Met Asp Tyr
      85              90              95
Ala Val Glu Lys Lys Ser Val Asp Thr Ala Thr Arg Glu Thr Leu Leu
      100              105              110
Gly Asn Ser Leu Val Val Val Ala Pro Ala Asn Ser Lys Gln Gly Asp
      115              120              125
Ile Ala Ile Asn Lys Gln Thr Asp Trp Thr Arg Leu Leu Asn Gly Gly
      130              135              140
Arg Leu Ala Val Gly Asp Pro Glu His Val Pro Ala Ala Gly Ile Tyr Ala
      145              150              155              160
Lys Glu Ala Leu Gln Lys Leu Gly Ala Trp Glu Thr Leu Ser Pro Lys
      165              170              175
Leu Ala Pro Ala Glu Asp Val Arg Gly Ala Leu Ala Leu Val Glu Arg
      180              185              190
Asn Glu Val Pro Leu Gly Ile Val Tyr Gly Ser Asp Ala Val Ala Ser
      195              200              205
Lys Gly Val Lys Val Val Gly Thr Phe Pro Glu Asp Ser His Lys Lys
      210              215              220
Val Glu Tyr Pro Val Ala Ile Val Asp Gly His Lys Asn Ala Ser Val
      225              230              235              240
Thr Ala Phe Val Asp Tyr Leu Lys Gly Pro Glu Ala Ser Ala Ile Phe

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Lys Arg Tyr Gly Phe Thr Thr His Glu
 245 250 255
 260 265

<210> 7740
 <211> 336
 <212> PRT
 <213> Enterobacter cloacae

<400> 7740
 Ser Gly Val Phe Met Lys Gln Thr Val Tyr Thr Ala Ser Pro Glu Ser
 1 5 10 15
 Gln Gln Ile His Val Trp Arg Leu Asn Thr Glu Gly Ser Leu Thr Leu
 20 25 30
 Val Gln Val Val Asp Val Pro Gly Gln Val Gln Pro Met Val Val Ser
 35 40 45
 Pro Asp Lys Arg Phe Leu Tyr Val Gly Val Arg Pro Glu Phe Arg Val
 50 55 60
 Leu Ala Tyr Arg Ile Ser Pro Asp Asp Gly Ala Leu Thr Tyr Thr Ala
 65 70 75 80
 Glu Ala Pro Leu Pro Gly Ser Pro Thr His Ile Ser Thr Asp His Lys
 85 90 95
 Gly Asn Phe Ile Phe Ser Gly Ser Tyr Asn Ala Gly Ser Val Ser Val
 100 105 110
 Thr Arg Leu Glu Asp Gly Ile Pro Val Glu Thr Val Asp Val Val Glu
 115 120 125
 Gly Leu Glu Gly Cys His Ser Ala Asn Ile Ser Pro Asp Asn Arg Thr
 130 135 140
 Leu Trp Val Pro Ala Leu Lys Gln Asp Arg Ile Cys Leu Phe Thr Leu
 145 150 155 160
 Ser Asp Asp Gly His Leu Val Ala Gln Ser Pro Ala Glu Val Thr Thr
 165 170 175
 Val Glu Gly Ala Gly Pro Arg His Met Val Phe His Pro Asn Gln Gln
 180 185 190
 Tyr Ala Tyr Val Val Asn Glu Leu Asn Ser Ser Val Asp Val Trp Glu
 195 200 205
 Leu Asn Asp Pro Asn Gly Gln Ile Glu Cys Val Gln Thr Leu Asp Met
 210 215 220
 Met Pro Ser Asp Phe Ser Asp Thr Arg Trp Ala Ala Asp Ile His Ile
 225 230 235 240
 Thr Pro Asp Gly Arg His Leu Tyr Ala Cys Asp Arg Thr Ser Ser Leu
 245 250 255
 Ile Thr Val Phe Ser Val Ser Glu Asp Gly Ser Val Leu Ala Val Glu
 260 265 270
 Gly Phe Gln Pro Thr Glu Thr Gln Pro Arg Gly Phe Asn Val Asp His
 275 280 285
 Ser Gly Lys Tyr Leu Ile Ala Ala Gly Gln Lys Ser His His Ile Ala
 290 295 300
 Leu Tyr Glu Ile Gln Gly Val Gln Gly Leu Leu Glu Glu Lys Gly Arg
 305 310 315 320
 Tyr Ala Val Gly Gln Gly Pro Met Trp Val Val Ile Asn Ala His
 325 330 335

<210> 7741
 <211> 419
 <212> PRT
 <213> Enterobacter cloacae

<400> 7741
 Met Ser Ile Gln Pro Met Thr Ser Gly Arg His Met Gln Gln Leu Asn
 1 5 10 15

Pro Asp Asp Val Ile Trp Arg Asn Ala Arg Leu Ala Thr Leu Ala Thr
 20 25 30
 Gly Glu Ala Glu Pro Tyr Gly Leu Arg Glu Gln His Ala Leu Val Val
 35 40 45
 Arg Gly Gln Thr Ile Leu Ala Ile Ile Pro Glu Ser Glu Ile Pro Ser
 50 55 60
 Gly His Cys Gln Cys Val Asp Leu Asp Gly Arg Leu Val Thr Pro Gly
 65 70 75 80
 Leu Ile Asp Cys His Thr His Leu Val Phe Gly Gly Asp Arg Ala Ala
 85 90 95
 Glu Trp Glu Gln Arg Leu Asn Gly Val Ser Tyr Gln Thr Ile Ser Ala
 100 105 110
 Gln Gly Gly Ile Asn Ala Thr Val Thr Ala Thr Arg Asn Ser Ser
 115 120 125
 Pro Glu Thr Leu Leu Thr Val Ala Gln Gln Arg Leu Gln Arg Leu Met
 130 135 140
 Asn Glu Gly Val Thr Thr Val Glu Ile Lys Ser Gly Tyr Gly Leu Asn
 145 150 155 160
 Ala Glu Ala Glu Glu Lys Met Leu Leu Val Ala Arg Gln Leu Ser Leu
 165 170 175
 Asn Asn Leu Val Asp Ile Ser Pro Thr Leu Leu Ala Ala His Ala Val
 180 185 190
 Pro Ala Glu Tyr Arg Gln Asp Pro Asp Ala Tyr Leu Ala Leu Val Cys
 195 200 205
 Glu Gln Ile Met Pro Thr Leu Trp Gln Lys Glu Leu Phe Glu Ala Val
 210 215 220
 Asp Val Phe Cys Glu Asn Val Gly Phe Thr Pro Ala Gln Thr Glu Arg
 225 230 235 240
 Leu Phe Arg Ala Ala Ala Leu Gly Ile Pro Val Lys Gly His Val
 245 250 255
 Glu Gln Leu Ser Asn Leu Gly Gly Ala Ala Leu Val Ser Gln Tyr Lys
 260 265 270
 Gly Leu Ser Ala Asp His Ile Glu Tyr Leu Asp Asp Ala Gly Ile Gln
 275 280 285
 Ala Met Ala Gln Ser Gly Thr Val Ala Val Leu Leu Pro Gly Ala Phe
 290 295 300
 Tyr Phe Leu Gln Glu Arg Gln Arg Pro Pro Val Ala Gln Leu Arg Glu
 305 310 315 320
 Gln Gly Val Pro Met Ala Val Ala Thr Asp Tyr Asn Pro Gly Thr Ser
 325 330 335
 Pro Phe Ala Ser Leu His Leu Ala Met Asn Met Ala Cys Val Gln Phe
 340 345 350
 Gly Leu Thr Pro Glu Glu Ala Trp Ala Gly Val Thr Arg His Ala Ala
 355 360 365
 Gln Ala Leu Gly Arg Ala Ala Thr His Gly Gln Leu Lys Pro Gly Tyr
 370 375 380
 Val Ala Asp Phe Val Val Trp Glu Ala Asn His Pro Val Glu Met Val
 385 390 395 400
 Tyr Glu Pro Gly Arg Asn Pro Leu Tyr Gln Arg Val Phe Arg Gly Gln
 405 410 415
 Val Ala

<210> 7742

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7742

Leu Ser Val Ser Ala Glu Ala Val Asn Tyr Arg Arg Arg Ile Trp Trp
 1 5 10 15

Asn Leu Ile Arg Thr Thr Ile Gly Thr Val Arg Gly Arg Ser Leu Pro
 20 25 30
 Pro Asp Trp Pro Gly Lys Leu Leu Thr Gly Gly His Asn His Ile Gln
 35 40 45
 Gly Val Met Met Phe Ser Arg Ser Pro Leu Pro Gln Pro Ser Pro Pro
 50 55 60
 Ala Pro Phe Tyr Glu Lys Val Lys Gln Ala Ile Ser Glu Lys Ile Ala
 65 70 75 80
 Ala Gly Val Trp Arg Pro His Asp Arg Ile Pro Ser Glu Ala Glu Leu
 85 90 95
 Val Ala Gln Phe Gly Phe Ser Arg Met Thr Ile Asn Arg Ala Leu Arg
 100 105 110
 Glu Leu Thr Asp Glu Gly Leu Leu Val Arg Leu Gln Gly Val Gly Thr
 115 120 125
 Phe Val Ala Glu Pro Lys Gly Gln Ser Ala Leu Phe Glu Ile Arg Ser
 130 135 140
 Ile Ala Asp Glu Ile Ala Ala Arg Asn His Gln His His Cys Glu Val
 145 150 155 160
 Leu Val Leu Glu Glu Thr Gln Ala Ser Ala Glu Gln Ala Ile Glu Leu
 165 170 175
 Asn Val Thr Glu Gly Thr Arg Ile Phe His Ser Val Met Val His Tyr
 180 185 190
 Glu Asn Asp Ile Pro Val Gln Ile Glu Asp Arg Cys Val Asn Ala Glu
 195 200 205
 Arg Ile Pro Asp Tyr Leu Asn Gln Asp Tyr Thr Gln Thr Thr Pro His
 210 215 220
 Ala Tyr Leu Ser Leu Val Ala Pro Leu Thr Glu Gly Glu His Ile Val
 225 230 235 240
 Glu Ala Val Arg Ala Thr Pro Gln Glu Cys Glu Leu Leu Arg Ile Lys
 245 250 255
 Glu His Asp Pro Cys Leu Leu Ile Arg Arg Thr Trp Ser Ser Ser
 260 265 270
 Gln Ile Val Ser His Ala Lys Leu Leu Phe Pro Gly Asn Arg Tyr Arg
 275 280 285
 Leu Gln Gly His Phe Met Ser
 290 295

<210> 7743

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 7743

Leu Cys Gln Arg Ala Gly Pro Glu Pro Ala Asp Asp Pro Arg His Thr
 1 5 10 15
 Arg Lys Ala Cys Met Asn Ala Leu Thr Leu Thr Pro Gly Ser Leu Thr
 20 25 30
 Leu Lys Gln Leu Arg His Val Trp Arg Gln Pro Val Thr Leu Ser Leu
 35 40 45
 Asp Glu Ser Ala His Arg Ala Ile Asn Asp Ser Val Ala Cys Val Glu
 50 55 60
 Ala Ile Val Ala Glu Gly Arg Thr Ala Tyr Gly Ile Asn Thr Gly Phe
 65 70 75 80
 Gly Leu Leu Ala Gln Thr Arg Ile Ala Thr His Asp Leu Glu Asn Leu
 85 90 95
 Gln Arg Ser Leu Val Leu Ser His Ala Ala Gly Val Gly Gln Pro Leu
 100 105 110
 Asp Asp Glu Ile Val Arg Leu Met Met Val Leu Lys Ile Asn Ser Leu
 115 120 125
 Ala Arg Gly Phe Ser Gly Ile Arg Leu Ser Val Ile Gln Ala Leu Met
 130 135 140

Ala Leu Val Asn Ala Glu Val Tyr Pro Trp Ile Pro Ala Lys Gly Ser
 145 150 155 160
 Val Gly Ala Ser Gly Asp Leu Ala Pro Leu Ala His Met Ser Leu Leu
 165 170 175
 Leu Leu Gly Glu Gly Gln Ala Arg Trp Gln Gly Glu Trp Leu Pro Ala
 180 185 190
 Lys Glu Ala Leu Lys Lys Ala Gly Leu Thr Pro Ile Thr Leu Ala Ala
 195 200 205
 Lys Glu Gly Leu Ala Leu Leu Asn Gly Thr Gln Ala Ser Thr Ala Phe
 210 215 220
 Ala Leu Arg Gly Leu Phe Glu Ala Glu Asp Leu Phe Ala Ser Ala Val
 225 230 235 240
 Val Cys Gly Ala Leu Thr Thr Glu Ala Val Leu Gly Ser Arg Arg Pro
 245 250 255
 Phe Asp Ala Arg Ile His Glu Val Arg Gly Gln Arg Gly Ile Asp
 260 265 270
 Ala Ala Ala Met Tyr Arg His Val Leu Thr Asp Thr Ser Asp Ile Ala
 275 280 285
 Glu Ser His His Asn Cys Glu Lys Val Gln Asp Pro Tyr Ser Leu Arg
 290 295 300
 Cys Gln Pro Gln Val Met Gly Ala Cys Leu Thr Gln Leu Arg Gln Ala
 305 310 315 320
 Ala Glu Val Leu Leu Val Glu Ala Asn Ala Val Ser Asp Asn Pro Leu
 325 330 335
 Val Phe Ala Gln Glu Asn Glu Val Val Ser Gly Gly Asn Phe His Ala
 340 345 350
 Glu Pro Val Ala Met Ala Ala Asp Asn Ile Ala Leu Ala Ile Ala Glu
 355 360 365
 Ile Gly Ala Leu Ser Glu Arg Arg Ile Ala Leu Met Met Asp Lys His
 370 375 380
 Met Ser Gln Leu Pro Pro Phe Leu Val Arg Asn Gly Gly Val Asn Ser
 385 390 395 400
 Gly Phe Met Ile Ala Gln Val Thr Ala Ala Leu Ala Ser Glu Asn
 405 410 415
 Lys Ala Leu Ser His Pro His Ser Val Asp Ser Leu Pro Thr Ser Ala
 420 425 430
 Asn Gln Glu Asp His Val Ser Met Ala Pro Ala Ala Gly Arg Arg Leu
 435 440 445
 Trp Glu Met Ala Ser Asn Thr Arg Gly Val Leu Ala Val Glu Trp Leu
 450 455 460
 Ala Ala Cys Gln Gly Ile Asp Leu Arg Glu Gly Leu Thr Ser Ser Pro
 465 470 475 480
 Leu Leu Glu Gln Ala Arg His Thr Leu Arg Glu His Val Thr His Tyr
 485 490 495
 Asp Asp Asp Arg Phe Phe Ala Pro Asp Ile Asp Lys Ala Met Gln Leu
 500 505 510
 Leu Glu Glu Gly Arg Leu Val Gly Leu Leu Pro Ser Val Leu
 515 520 525

<210> 7744

<211> 398

<212> PRT

<213> *Enterobacter cloacae*

<400> 7744

Arg Arg His Arg Pro Val Leu Gln Arg Gly Ser His Met Thr Trp Gln
 1 5 10 15
 Ala Arg Ile Arg Thr Ala Leu Asp Glu Arg Arg Ala Ala Asp Ala Phe
 20 25 30
 Arg Val Arg Arg Val Val Glu Asn Gly Ala Gly Arg Phe Leu Thr Arg
 35 40 45

Glu Gly Glu Arg Phe Cys Asn Phe Ser Ser Asn Asp Tyr Leu Gly Leu
 50 55 60
 Ser Gln His Pro Gln Ile Val Arg Ala Trp Gln Gln Gly Ala Asp Arg
 65 70 75 80
 Tyr Gly Val Gly Ser Gly Gly Ser Gly His Val Ser Gly Tyr Thr Thr
 85 90 95
 Ala His Gln Ala Leu Glu Glu Glu Leu Ala Asp Trp Leu Gly Tyr Pro
 100 105 110
 Arg Ala Leu Leu Phe Ile Ser Gly Phe Ala Ala Asn Gln Ala Val Ile
 115 120 125
 Ala Ala Leu Met Gly Lys Asp Asp Arg Ile Val Ala Asp Arg Leu Ser
 130 135 140
 His Ala Ser Leu Leu Glu Ala Ala Ser Leu Ser Pro Ala Gln Leu Arg
 145 150 155 160
 Arg Phe Ala His Asn Asn Ala Ser Gln Leu Asn Val Leu Leu Gly Lys
 165 170 175
 Pro Cys Ser Gly Leu Gln Leu Ala Val Thr Glu Gly Val Phe Ser Met
 180 185 190
 Asp Gly Asp Ser Ala Pro Leu Ala Thr Leu His Asp Val Ala Lys Gln
 195 200 205
 Gln Asn Ala Trp Leu Leu Val Asp Asp Ala His Gly Ile Gly Val Thr
 210 215 220
 Gly Glu Glu Gly Arg Gly Ser Ala His Gln Gln Arg Val Arg Pro Glu
 225 230 235 240
 Leu Leu Val Val Thr Phe Gly Lys Gly Phe Gly Val Ser Gly Ala Ala
 245 250 255
 Val Leu Cys Ser Glu Pro Val Ala Asp Tyr Leu Val Gln Phe Ala Arg
 260 265 270
 His Leu Ile Tyr Ser Thr Ser Met Pro Ala Gln Ala Val Ala Leu
 275 280 285
 Ser Ala Ser Leu Ala Val Ile Arg Gly Glu Asp Gly Ala Glu Arg Arg
 290 295 300
 Ala Arg Leu Ala Asp His Ile Gln Arg Phe Arg Arg Gly Ile Ser Glu
 305 310 315 320
 Leu Ser Tyr Arg Leu Thr Asp Ser His Ser Ala Ile Gln Pro Val Ile
 325 330 335
 Val Gly Glu Asn His Arg Ala Leu Met Val Ala Gln Ala Leu Arg Glu
 340 345 350
 Arg Gly Gln Trp Val Thr Ala Ile Arg Pro Pro Thr Val Pro Pro Gly
 355 360 365
 Thr Ala Arg Leu Arg Leu Thr Leu Thr Ala Ala His Glu Pro Gln Asp
 370 375 380
 Ile Asp Thr Leu Leu Glu Ala Leu Tyr Val Ser Arg Gln
 385 390 395

<210> 7745

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 7745

Thr Asp Gly Glu Ile Val Met Leu Glu Leu Asn Phe Thr Gln Thr Leu
 1 5 10 15
 Gly Ser His Thr Leu Thr Leu Asn Glu Thr Leu Pro Ala Ser Gly Ile
 20 25 30
 Thr Ala Ile Phe Gly Val Ser Gly Ala Gly Lys Thr Ser Leu Ile Asn
 35 40 45
 Ala Ile Ser Gly Leu Thr Arg Pro Gln Ser Gly Arg Ile Val Leu Asn
 50 55 60
 Asn Arg Val Leu Asn Asp Ala Glu Lys Lys Val Cys Leu Ser Pro Asp
 65 70 75 80

Lys Arg Arg Ile Gly Tyr Val Phe Gln Asp Ala Arg Leu Phe Pro His
 85 90 95
 Tyr Ser Val Arg Gly Asn Leu Arg Tyr Gly Met Ala Lys Ser Met Ala
 100 105 110
 Gly Gln Phe Asn Lys Leu Val Ala Leu Leu Gly Ile Glu Pro Leu Leu
 115 120 125
 Asp Arg Leu Pro Ser Ser Leu Ser Gly Gly Glu Lys Gln Arg Val Ala
 130 135 140
 Ile Gly Arg Ala Leu Leu Thr Ala Pro Glu Leu Leu Leu Asp Glu
 145 150 155 160
 Pro Leu Ala Ser Leu Asp Ile Pro Arg Lys Arg Glu Leu Leu Pro Tyr
 165 170 175
 Leu Gln Arg Leu Ala Arg Glu Ile Asn Val Pro Met Leu Tyr Val Ser
 180 185 190
 His Ser Leu Asp Glu Ile Leu His Met Ala Asp Lys Val Leu Val Leu
 195 200 205
 Glu Ala Gly Arg Val Lys Ala Phe Gly Asn Leu Glu Glu Val Trp Gly
 210 215 220
 Ser Ser Val Met His Pro Trp Leu Pro Lys Glu Gln Gln Ser Ser Ile
 225 230 235 240
 Leu Lys Val Ser Val Leu Glu His His Pro His Tyr Ala Met Thr Ala
 245 250 255
 Leu Ala Leu Gly Asp Gln His Leu Trp Val Asn Lys Ile Asp Thr Pro
 260 265 270
 Ile Gln Ser Thr Leu Arg Ile Arg Ile Gln Ala Ser Asp Val Ser Leu
 275 280 285
 Val Leu Gln Pro Pro Leu Gln Thr Ser Ile Arg Asn Ile Leu Arg Ala
 290 295 300
 Lys Val Ala Gln Cys Phe Asp Asp Asn Gly Gln Val Glu Val Gln Leu
 305 310 315 320
 Glu Val Gly Ser Arg Thr Leu Trp Ala Arg Ile Ser Pro Trp Ala Arg
 325 330 335
 Asp Glu Leu Gly Ile Lys Pro Gly Leu Trp Leu Tyr Ala Gln Ile Lys
 340 345 350
 Ser Val Ser Ile Thr Ala
 355

<210> 7746

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 7746

Ser Ala Leu Arg Phe Asn Glu Leu Gly Gln Thr Pro Ser Phe Ala Val
 1 5 10 15
 Ala Phe Ala Gly Asp Ile His Leu Ile Val Pro Gly Pro Phe Thr Phe
 20 25 30
 Gln Thr Gln Arg Met Leu Asp Lys Phe Cys Glu Gly Ile Gln Phe Gly
 35 40 45
 Gly Val Phe Ile Gly Gln Gly Lys Phe Pro Asp Cys Phe Asp Val Phe
 50 55 60
 Arg Arg Leu Ala Gln Gly Gly Asn Leu Ser Lys His Arg Thr Leu Arg
 65 70 75 80
 Phe Arg Gln Arg Gln Ser Pro Val Ala Gly Ala Asp His Met Ala Gly
 85 90 95
 Arg Ala Phe Ile His His Gly Val Ile His Ile His Gln Ala Val Asn
 100 105 110
 Gly Val Leu Ile Gln
 115

<210> 7747

<211> 587

<212> PRT

<213> *Enterobacter cloacae*

<400> 7747

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Ile Arg Pro Cys Val Cys Leu Ser Ile Gln Val Tyr Leu Asn Ala Ser
1      5      10      15
Ser Val Pro Tyr Glu Glu His Thr Met Ser Ser Asp Lys Tyr Arg Lys
      20      25      30
Gln Asp Val Arg Ala Ala Arg Gly Thr Thr Leu Thr Ala Lys Ser Trp
      35      40      45
Leu Thr Glu Ala Pro Leu Arg Met Leu Met Asn Asn Leu Asp Pro Glu
      50      55      60
Val Ala Glu Asn Pro His Glu Leu Val Val Tyr Gly Gly Ile Gly Arg
      65      70      75      80
Ala Ala Arg Asn Trp Ala Cys Tyr Asp Ala Ile Val Glu Ser Leu Thr
      85      90      95
Asn Leu Glu Asn Asp Glu Thr Leu Leu Val Gln Ser Gly Lys Pro Val
      100      105      110
Gly Val Phe Lys Thr His Lys Asn Ala Pro Arg Val Leu Ile Ala Asn
      115      120      125
Ser Asn Leu Val Pro His Trp Ala Thr Trp Glu His Phe Asn Glu Leu
      130      135      140
Asp Ala Lys Gly Leu Ala Met Tyr Gly Gln Met Thr Ala Gly Ser Trp
      145      150      155      160
Ile Tyr Ile Gly Ser Gln Gly Ile Val Gln Gly Thr Tyr Glu Thr Phe
      165      170      175
Val Glu Ala Gly Arg Gln His Tyr Asn Gly Ser Leu Lys Gly Arg Trp
      180      185      190
Val Leu Thr Ala Gly Leu Gly Gly Met Gly Gly Ala Gln Pro Leu Ala
      195      200      205
Ala Thr Leu Ala Gly Ala Cys Ser Leu Asn Ile Glu Cys Gln Gln Ser
      210      215      220
Arg Ile Asp Phe Arg Leu Arg Thr Arg Tyr Val Asp Glu Gln Ala Asp
      225      230      235      240
Asn Leu Asp Asp Ala Leu Ala Arg Ile Lys Lys Tyr Thr Ser Glu Gly
      245      250      255
Lys Ala Val Ser Val Ala Leu Cys Gly Asn Ala Ala Asp Ile Leu Pro
      260      265      270
Glu Leu Val Ala Arg Gly Val Arg Pro Asp Leu Val Thr Asp Gln Thr
      275      280      285
Ser Ala His Asp Pro Leu His Gly Tyr Leu Pro Lys Gly Trp Thr Trp
      290      295      300
Glu Asp Tyr Gln Gln Lys Ala Glu Thr Asp Pro Glu Gly Thr Val Leu
      305      310      315      320
Ala Ala Lys Arg Ala Met Ala Glu His Val Ser Ala Met Leu Ala Phe
      325      330      335
Ser Lys Met Gly Ile Pro Thr Phe Asp Tyr Gly Asn Asn Ile Arg Gln
      340      345      350
Met Ala Lys Glu Met Gly Val Asn Asn Ala Phe Asp Phe Pro Gly Phe
      355      360      365
Val Pro Ala Tyr Ile Arg Pro Leu Phe Cys Arg Gly Ile Gly Pro Phe
      370      375      380
Arg Trp Val Ala Leu Ser Gly Asp Pro Glu Asp Ile Tyr Lys Thr Asp
      385      390      395      400
Ala Arg Val Lys Glu Ile Val Ala Asp Asp Glu His Leu His Arg Trp
      405      410      415
Leu Asp Met Ala Arg Glu Arg Ile Asn Phe Gln Gly Leu Pro Ala Arg
      420      425      430
Ile Cys Trp Val Gly Leu Glu Trp Arg Gln Lys Leu Gly Leu Ala Phe
      435      440      445

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Asn Glu Met Val Arg Ser Gly Glu Val Ser Ala Pro Ile Val Ile Gly
 450 455 460
 Arg Asp His Leu Asp Ser Gly Ser Val Ala Ser Pro Asn Arg Glu Thr
 465 470 475 480
 Glu Ala Met Arg Asp Gly Ser Asp Ala Val Ser Asp Trp Pro Leu Leu
 485 490 495
 Asn Ala Leu Leu Asn Thr Ala Ser Gly Ala Thr Trp Val Ser Leu His
 500 505 510
 His Gly Gly Gly Val Gly Met Gly Phe Ser Gln His Ser Gly Met Val
 515 520 525
 Ile Val Cys Asp Gly Thr Asp Glu Ala Ala Ala Arg Ile Ala Arg Val
 530 535 540
 Leu His Asn Asp Pro Ala Thr Gly Val Met Arg His Ala Asp Ala Gly
 545 550 555 560
 Tyr Glu Ile Ala Ile Asp Cys Ala Lys Glu Gln Gly Leu Asn Leu Pro
 565 570 575
 Met Ile Pro Ala Thr Gln Gly Lys Pro Ala
 580 585

<210> 7748

<211> 360

<212> PRT

<213> *Enterobacter cloacae*

<400> 7748

Thr Glu Pro Thr Ile Asn Lys Thr Leu Trp Arg Ser Pro Met Ala His
 1 5 10 15
 His Ala Arg Trp Thr Met Ser Gln Val Thr Glu Leu Phe Asn Lys Pro
 20 25 30
 Phe Leu Glu Leu Met Phe Glu Ala Gln Gln Val His Arg Gln His Phe
 35 40 45
 Asp Pro Arg His Val Gln Val Ser Thr Leu Leu Ser Ile Lys Thr Gly
 50 55 60
 Ala Cys Pro Glu Asp Cys Lys Tyr Cys Pro Gln Ser Ala Arg Tyr Lys
 65 70 75 80
 Thr Gly Leu Glu Ser Glu Arg Leu Met Glu Val Glu Gln Val Leu Asp
 85 90 95
 Ser Ala Arg Lys Ala Lys Asn Ala Gly Ser Thr Arg Phe Cys Met Gly
 100 105 110
 Ala Ala Trp Lys Asn Pro His Asp Arg Asp Met Pro Tyr Leu Glu Gln
 115 120 125
 Met Val Lys Gly Val Lys Glu Met Gly Leu Glu Ala Cys Met Thr Leu
 130 135 140
 Gly Thr Leu Asn Glu Glu Gln Ala Gln Arg Leu Ser Ala Ala Gly Leu
 145 150 155 160
 Asp Tyr Tyr Asn His Asn Leu Asp Thr Ser Pro Glu Phe Tyr Gly Asn
 165 170 175
 Ile Ile Thr Thr Arg Thr Tyr Gln Glu Arg Leu Asp Thr Leu Asp Lys
 180 185 190
 Val Arg Asp Ala Gly Ile Lys Val Cys Ser Gly Gly Ile Val Gly Leu
 195 200 205
 Gly Glu Thr Val Lys Asp Arg Ala Gly Leu Leu Leu Gln Leu Ala Asn
 210 215 220
 Leu Pro Thr Pro Pro Glu Ser Val Pro Ile Asn Met Leu Val Lys Val
 225 230 235 240
 Lys Gly Thr Pro Leu Ala Asp Asn Glu Asp Val Asp Ala Phe Asp Phe
 245 250 255
 Ile Arg Thr Ile Ala Val Ala Arg Ile Met Met Pro Thr Ser Tyr Val
 260 265 270
 Arg Leu Ser Ala Gly Arg Glu Gln Met Ser Glu Gln Thr Gln Ala Met
 275 280 285

Cys Phe Met Ala Gly Ala Asn Ser Ile Phe Tyr Gly Cys Lys Leu Leu
 290 295 300
 Thr Thr Pro Asn Pro Glu Glu Asp Lys Asp Val Gln Leu Phe Arg Lys
 305 310 315 320
 Leu Gly Leu Asn Pro His Gln Thr Gly Val Gln Val Gly Asp Asn Glu
 325 330 335
 Gln Gln Gln Gln Leu Glu Gln Gln Ile Phe Asn Ala Asp Thr Asp Gln
 340 345 350
 Phe Tyr Asn Ala Ala Ala Ile
 355 360

<210> 7749

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7749

Arg Ser Arg Gln Arg Met Ser Arg Arg Ile Ser Ile Arg Phe Trp Arg
 1 5 10 15
 His Cys Met Ser Leu Val Asn Lys Gln Ala Val Ala Ala Phe Gly
 20 25 30
 Arg Ala Ala Gln Ser Tyr Ser Gln His Asp Glu Leu Gln Arg Leu Ser
 35 40 45
 Ala Arg Gly Leu Leu Ala Ala Leu Gly Asp Gly Arg Phe Ala Gln Val
 50 55 60
 Leu Asp Ala Gly Cys Gly Pro Gly Gly Asn Ser Arg Tyr Trp Arg Ala
 65 70 75 80
 Thr Gly Ser His Val Thr Ala Leu Asp Leu Ser Ala Gln Met Leu Asp
 85 90 95
 Glu Ala Arg Gln Gln Gln Ser Ala Asp Arg Tyr Leu Val Ala Asp Ile
 100 105 110
 Glu Ala Ile Pro Leu Glu Asp Ala Leu Phe Asp Leu Val Trp Ser His
 115 120 125
 Leu Ala Val Gln Trp Cys Ala Ser Leu Pro Gln Ala Leu Arg Glu Leu
 130 135 140
 Tyr Arg Val Ala Arg Pro Gly Gly Ala Val Ala Phe Thr Thr Leu Leu
 145 150 155 160
 Glu Ser Ser Leu Pro Glu Leu Asn Gln Ala Trp Arg Ala Val Asp Ala
 165 170 175
 Gln Pro His Ala Asn Arg Phe Leu Ser His Glu Gln Val Thr Gln Ala
 180 185 190
 Leu Ala Gly Trp Arg Tyr Arg Ser Val Val Gln Thr Val Thr Leu Glu
 195 200 205
 Phe Ser Asp Ala Leu Ser Ala Met Arg Ser Leu Lys Gly Ile Gly Ala
 210 215 220
 Thr His Leu His Ala Gly Arg Glu Lys Lys Pro Leu Thr Arg Gly Gln
 225 230 235 240
 Leu Gln Arg Leu Glu Leu Ala Trp Pro Gln Glu Arg Gly Arg Phe Pro
 245 250 255
 Leu Ser Tyr His Leu Phe His Gly Ile Ile Glu Arg Asp
 260 265 270

<210> 7750

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 7750

Thr Leu Arg Ile Tyr Asp Ser Arg Met Ile Leu Thr Glu Pro Glu Trp
 1 5 10 15
 Gln Ala Val Leu Leu Ser Leu Lys Val Ser Ser Leu Ala Val Ala Leu

20 25 30
 Ser Leu Pro Phe Gly Val Phe Phe Ala Trp Leu Leu Val Arg Val Lys
 35 40 45
 Phe Pro Gly Lys Ala Leu Leu Asp Ser Val Leu His Leu Pro Leu Val
 50 55 60
 Leu Pro Pro Val Val Val Gly Tyr Leu Leu Leu Ile Ser Met Gly Arg
 65 70 75 80
 Arg Gly Val Ile Gly Glu Trp Leu Tyr Asp Trp Phe Gly Leu Thr Phe
 85 90 95
 Ala Phe Ser Trp Arg Gly Ala Val Leu Ala Ala Val Met Ser Phe
 100 105 110
 Pro Leu Met Val Arg Ala Ile Arg Leu Ala Leu Glu Gly Val Asp Ile
 115 120 125
 Arg Leu Glu Gln Ala Ala Arg Thr Leu Gly Ala Gly Arg Trp Arg Val
 130 135 140
 Phe Leu Thr Ile Thr Leu Pro Leu Thr Leu Pro Gly Ile Ile Val Gly
 145 150 155 160
 Thr Val Leu Ala Phe Ala Arg Ser Leu Gly Glu Phe Gly Ala Thr Ile
 165 170 175
 Thr Phe Val Ser Asn Ile Pro Gly Glu Thr Arg Thr Ile Pro Ser Ala
 180 185 190
 Met Tyr Thr Leu Ile Gln Thr Pro Gly Gly Glu Gly Ala Ala Arg
 195 200 205
 Leu Cys Ile Ile Ser Ile Val Leu Ala Leu Val Ser Leu Leu Val Ser
 210 215 220
 Glu Trp Leu Ala Arg Leu Ser Arg Glu Arg Met Gly Lys Ser
 225 230 235

<210> 7751
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 7751
 Ile Lys Ser Ile Arg Arg Phe Ser Pro Arg Tyr Gly Ser Ala Phe Arg
 1 5 10 15
 Arg Arg Met Ser His Trp Ser Cys Asn Arg Arg Cys Lys Pro Val Ser
 20 25 30
 Ala Ile Phe Cys Ala Gln Lys Trp Arg Ser Val Leu Met Ile Thr Ala
 35 40 45
 Arg Trp Lys Cys Ser Trp Lys Trp Ala Ala Glu Arg Cys Gly Arg Ala
 50 55 60
 Ser Ala Arg Gly Pro Gly Met Ser Trp Val Ser Ser Leu Ala Cys Gly
 65 70 75 80
 Phe Thr Arg Lys Ser Arg Ala Phe Pro
 85 90

<210> 7752
 <211> 333
 <212> PRT
 <213> Enterobacter cloacae

<400> 7752
 Asp Gly Leu Arg Ala Gly Ala Glu Ser Phe Val Ser Thr Arg Val Ser
 1 5 10 15
 Gly Ala Gly Ser Met Lys Leu Trp His Pro Val Ser Pro Gln Val Trp
 20 25 30
 Gln Gly Arg Asp Asp Ser Ala Glu Ser Ser Thr Ala Lys Arg Leu Phe
 35 40 45
 Gln Thr Ile Gln Gln Arg Glu His Phe Ser Pro Val Pro Ser Gly Ile
 50 55 60

Ala Leu Leu Gly Phe Glu Cys Asp Glu Gly Val Lys Arg Asn Gln Gly
 65 70 75 80
 Arg Pro Gly Ala Ala Gln Ala Pro Asp Val Leu Arg Gly Ala Leu Ala
 85 90 95
 Asn Met Ala Ser His Gln Gly His Ala Arg Leu Val Asp Met Gly Ser
 100 105 110
 Val Tyr Val Glu Gly His Ala Leu Glu Ala Ala Gln Gln Ala Leu Ser
 115 120 125
 Glu Ala Ile Thr Ala Cys Gln Gln Ser Gly Met Arg Thr Leu Val Phe
 130 135 140
 Gly Gly Gly His Glu Thr Ala Trp Ala His Gly Arg Gly Val Leu Asp
 145 150 155 160
 Ala Phe Pro Asn Asp Arg Ile Ala Val Ile Asn Leu Asp Ala His Leu
 165 170 175
 Asp Leu Arg Lys Ala Glu Arg Ala Thr Ser Gly Thr Pro Phe Arg Gln
 180 185 190
 Leu Ala His Tyr Cys Ala Ser Gln Ser Arg Val Phe His Tyr Ala Cys
 195 200 205
 Leu Gly Val Ser Arg Ala Ala Asn Thr Gln Ala Leu Trp Glu Glu Ala
 210 215 220
 Glu Arg Leu Asn Val Thr Leu Val Glu Asp Leu Asp Phe Arg Arg Asp
 225 230 235 240
 Ala Leu Ser Ala Leu Asp Ser Val Leu Thr Gln Ala Asp Arg Val Tyr
 245 250 255
 Leu Thr Val Asp Leu Asp Val Leu Pro Ala Ala Glu Met Pro Ala Val
 260 265 270
 Ser Ala Pro Ala Ala Leu Gly Ile Pro Ala Leu Asp Leu Phe Pro Val
 275 280 285
 Ile Glu Arg Ile Cys Arg Ser Gly Lys Leu Gln Ala Ala Asp Leu Val
 290 295 300
 Glu Phe Asn Pro His Tyr Asp Arg Asp Gly Gln Gly Ala Lys Leu Ala
 305 310 315 320
 Ala Arg Leu Ala Trp Gln Ile Ala His Trp Trp Ala
 325 330

<210> 7753

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 7753

Ala Arg Arg Thr Cys Thr Pro Asp Gly Arg Arg Asn Pro Leu Pro Ala
 1 5 10 15
 Val Asn Ser Ser Val Ser Ser Trp Pro Gly Arg Arg Ser Gly Ala Gly
 20 25 30
 Ser Arg Ser Leu Ile Ile Phe Phe Met Gly Leu Leu Asn Val Thr Glu
 35 40 45
 Arg Tyr Phe Val Thr Gly Thr Asp Thr Glu Val Gly Lys Thr Val Ala
 50 55 60
 Ser Ala Ala Leu Leu Gln Ala Ala Arg Leu Leu Gly Lys Thr Thr Ala
 65 70 75 80
 Gly Tyr Lys Pro Val Ala Ser Gly Ser Glu Met Thr Pro Glu Gly Leu
 85 90 95
 Arg Asn Thr Asp Ala Leu Ala Leu Gln Arg Asn Ser Ser Leu Ala Leu
 100 105 110
 Ala Tyr Ser Ala Val Asn Pro Tyr Thr Phe Ala Glu Pro Thr Ser Pro
 115 120 125
 His Ile Val Ser Ala Asp Glu Asp Arg Pro Ile Asp Phe Ser Val Leu
 130 135 140
 Ser Ser Gly Leu Arg Asp Leu Glu Thr Gln Ala Asp Trp Val Leu Val
 145 150 155 160

<400> 7755
Val Ile Pro Lys Asn Gly Leu Phe Leu Ile Ile Met Lys Phe Leu Ala
1 5 10 15
Gly Val Leu Gln Thr Ser Leu Cys Ala Ser Pro Pro His Ile Phe Lys

20 25 30
 Glu Arg Lys Met Leu Ser Leu Arg Ala Val Asn Gln Phe Tyr Gly Ser
 35 40 45
 Gln His Thr Leu Trp Asn Val Asn Ile Asp Phe Pro Gln Gly Ile Cys
 50 55 60
 Thr Gly Ile Val Gly Leu Pro Gly Met Gly Lys Ser Thr Leu Met Asn
 65 70 75 80
 Cys Ile Thr Gly Lys Val Pro Val Glu Ser Gly Thr Ile Ile Trp His
 85 90 95
 Glu Ala Gly Ala Pro Pro Arg Asn Leu Leu Ser Pro Ala Ser Ala Phe
 100 105 110
 Thr Ala Pro Pro Thr Ile Gly Tyr Val Pro Gln Asp Arg Arg Ile Phe
 115 120 125
 Ser Gln Leu Thr Val Asp Glu Asn Leu His Ile Ala Met Arg Ala Thr
 130 135 140
 Gly Lys Pro Asp Pro Thr Ser Lys Ser Asp Val Tyr Ala Leu Phe Pro
 145 150 155 160
 Glu Leu Tyr Pro Leu Arg Gln Ser Arg Ala Ser Ser Leu Ser Pro Asp
 165 170 175
 Asp Gln Tyr Gln Leu Ala Leu Ala Ser Ala Leu Val Asn Arg Pro Arg
 180 185 190
 Val Leu Ile Leu Asp Glu Pro Met His Gly Ala Gly His Gly Phe Ala
 195 200 205
 Arg Arg Leu Gly Gln Leu Leu Val Arg Leu Asn Arg Glu Leu Gly Met
 210 215 220
 Thr Val Leu Leu Ala Glu Gln Gln Leu Ser Phe Ile Arg Arg Val Ala
 225 230 235 240
 Asp Arg Phe Cys Met Leu Tyr Arg Gly Arg Asn Val Ala Gln Gly His
 245 250 255
 Val Asn Glu Leu Asp Asp Asp Leu Ile Ala His Trp Met Ala Arg Asp
 260 265 270
 Ile Arg Arg
 275

<210> 7756

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 7756

Val Ser Asn Glu Glu Asn Arg Met Lys Ile Ile Ser Lys Asp Leu Arg
 1 5 10 15
 Asp Gly Glu Lys Leu Pro Glu Arg His Val Phe Asn Gly Met Gly Tyr
 20 25 30
 Gln Gly Asp Asn Ile Ser Pro His Leu Ala Trp Asp Asp Val Pro Ala
 35 40 45
 Gly Thr Lys Ser Phe Val Val Thr Cys Tyr Asp Pro Asp Ala Pro Thr
 50 55 60
 Gly Ser Gly Trp Trp His Trp Ile Val Ala Asn Leu Pro Ala Asp Thr
 65 70 75 80
 Arg Val Leu Pro Gln Gly Ser Gly Ser Asp Leu Val Ala Leu Pro Asp
 85 90 95
 Gly Ala Ile Gln Thr Arg Thr Asp Phe Gly Lys Ala Gly Tyr Gly Gly
 100 105 110
 Ala Ala Pro Pro Lys Gly Glu Thr His Arg Tyr Ile Phe Thr Val His
 115 120 125
 Ala Leu Asp Val Asp Lys Ile Glu Val Asp Glu Gly Ala Ser Gly Ala
 130 135 140
 Met Val Gly Phe Asn Val His Phe His Ser Leu Gly Ser Ala Ser Ile
 145 150 155 160
 Thr Ala Met Tyr Ser

165

<210> 7757

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 7757

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Ser Glu Glu Leu His Pro Cys Ala Leu Phe Leu Gly Asp Gly Ser Gln
1      5      10      15
Cys Ser Thr Val Asp Ala Phe Phe Ile Asn Leu Pro Lys Gln Pro Asp
20      25      30
Phe Val Val Gly Pro Ala Gly Ala Gln Gly Val Thr His Thr Ser Ile
35      40      45
Gln Ala Ala Val Asp Ala Ala Ile Thr Lys His Ser Ala Ser Arg Gln
50      55      60
Tyr Ile Ala Ile Leu Pro Gly Glu Tyr Glu Gly Thr Val Tyr Val Pro
65      70      75      80
Ala Ala Pro Gly Ser Ile Thr Leu Tyr Gly Leu Gly Glu Lys Ala Val
85      90      95
Asp Val Lys Ile Gly Leu Ala Ile Asp Ser Glu Ile Asp Ser Thr Thr
100     105     110
Trp Arg His Leu Val Asn Pro Ala Gly Lys Tyr Met Pro Gly Lys Pro
115     120     125
Ala Trp Tyr Met Phe Asp Asn Cys Gln Arg Lys Arg Ala Ala Thr Ile
130     135     140
Gly Val Met Cys Ser Ala Val Phe Trp Ser Gln Asn Asn Gly Leu Gln
145     150     155     160
Leu Gln Asn Leu Thr Ile Gln Asn Thr Leu Gly Asp Ser Val Asp Ala
165     170     175
Gly Asn His Gln Ala Val Ala Leu Arg Ser Asp Gly Asp Lys Val Gln
180     185     190
Ile Asn Asn Val Asn Ile Leu Gly Arg Gln Asn Thr Phe Phe Val Thr
195     200     205
Asn Ser Gly Val Gln Asn Thr Leu Gln Asn Asn Arg Leu Thr Arg Thr
210     215     220
Leu Val Thr Asn Ser Tyr Ile Glu Gly Asp Val Asp Met Val Ser Gly
225     230     235     240
Arg Gly Ala Val Val Phe Asp Asn Thr Asp Phe Arg Val Val Asn Ser
245     250     255
Arg Thr Gln Gln Glu Gly Tyr Val Phe Ala Pro Ala Thr Gln Ser Asn
260     265     270
Leu Phe Tyr Gly Phe Leu Ala Val Asn Ser Arg Phe Thr Ala Ala Gly
275     280     285
Asp Gly Val Ala Gln Leu Gly Arg Ser Leu Asp Val Asp Ser Ala Thr
290     295     300
Asn Gly Gln Val Val Ile Arg Asp Ser Val Ile Asn Glu Gly Phe Asn
305     310     315     320
Met Ala Lys Pro Trp Ala Asp Ala Ala Ile Ser Lys Arg Pro Phe Ser
325     330     335
Gly Asn Thr Gly Thr Val Asp Asp Lys Asp Asn Val Gln Arg Asn Leu
340     345     350
Asn Asp Ala Asn Phe Asn Arg Met Trp Glu Tyr Asn Asn Arg Gly Leu
355     360     365
Gly Ser Lys Val Val Ala Glu Pro Lys Gln
370     375

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<210> 7758

<211> 450

<212> PRT

<213> Enterobacter cloacae

<400> 7758

Leu Ser Val Arg Phe Ile Leu Val Asn Leu Lys Leu Phe Lys Met Val
 1 5 10 15
 Tyr Lys Ser Ile Met Thr Gln Asp Asp Leu Ala Phe Asp Lys Gln His
 20 25 30
 Ile Trp His Pro Tyr Thr Ser Thr Thr Arg Pro Leu Pro Val Tyr Pro
 35 40 45
 Val Ala Ser Ala His Gly Cys Glu Leu His Leu Ala Ser Gly Glu Arg
 50 55 60
 Leu Val Asp Gly Met Ser Ser Trp Trp Ala Ala Ile His Gly Tyr Asn
 65 70 75 80
 His Pro Arg Leu Asn Ala Ala Met Lys Ala Gln Ile Asp Gln Met Ser
 85 90 95
 His Val Met Phe Gly Gly Ile Thr His Gln Pro Ala Val Asp Leu Cys
 100 105 110
 Arg Arg Leu Val Ala Met Thr Pro Glu Ser Leu Glu Cys Val Phe Leu
 115 120 125
 Ala Asp Ser Gly Ser Val Ala Val Glu Val Ala Met Lys Met Ala Leu
 130 135 140
 Gln Tyr Trp His Ala Lys Gly Glu Thr Arg Gln Arg Phe Leu Thr Phe
 145 150 155 160
 Arg Asn Gly Tyr His Gly Asp Thr Phe Gly Ala Met Ser Val Cys Asp
 165 170 175
 Pro Asp Asn Ser Met His Ser Leu Trp Lys Gly Tyr Leu Pro Glu Asn
 180 185 190
 Leu Phe Ala Pro Ala Pro Gln Ser Arg Phe Asp Gly Glu Trp Asp Glu
 195 200 205
 Met Asp Met Val Gly Phe Ala Arg Leu Met Ala Ala His Arg His Glu
 210 215 220
 Ile Ala Ala Val Ile Leu Glu Pro Ile Val Gln Gly Ala Gly Gly Met
 225 230 235 240
 Arg Ile Tyr His Pro Glu Trp Leu Lys Arg Ile Arg Lys Met Cys Asp
 245 250 255
 Arg Glu Gly Ile Leu Leu Ile Ala Asp Glu Ile Ala Thr Gly Phe Gly
 260 265 270
 Arg Thr Gly Lys Leu Phe Ala Cys Glu His Ala Gly Ile Ala Pro Asp
 275 280 285
 Ile Leu Cys Leu Gly Lys Ala Leu Thr Gly Gly Thr Met Thr Leu Ser
 290 295 300
 Ala Thr Leu Thr Thr Arg Gln Val Ala Asp Thr Ile Ser Asp Gly Asp
 305 310 315 320
 Ala Gly Cys Phe Met His Gly Pro Thr Phe Met Gly Asn Pro Leu Ala
 325 330 335
 Cys Ala Val Ala Ser Glu Ser Leu Ala Ile Leu Glu Ser Gly Ala Trp
 340 345 350
 Gln Thr Gln Val Ala Ala Ile Glu Ala Gln Leu Lys Gln Gln Leu Ser
 355 360 365
 Ala Ala Ala Glu Ala Glu Tyr Val Ala Asp Val Arg Val Leu Gly Ala
 370 375 380
 Ile Gly Val Ile Glu Thr Lys His Pro Val Asn Met Ala Ala Leu Gln
 385 390 395 400
 Arg Phe Phe Val Asp Gln Gly Val Trp Val Arg Pro Phe Gly Lys Leu
 405 410 415
 Ile Tyr Leu Met Pro Pro Tyr Ser Ile Ser Ala Asp Gln Leu Arg Lys
 420 425 430
 Leu Thr Gly Ala Val Val Glu Ala Val Asn Thr Ser Ala His Phe Ala
 435 440 445
 Ile

450

<210> 7759

<211> 167

<212> PRT

<213> *Enterobacter cloacae*

<400> 7759

Tyr Lys Lys Ala Gly Tyr Phe Val Tyr Pro Asp Lys Thr Cys Ile Pro
 1 5 10 15
 Arg Ser Ile Thr Leu Asn Ile Ser Arg Ile Ser Arg Leu Ala Leu Ala
 20 25 30
 Leu Ala Phe Gly Val Thr Leu Ser Ala Cys Ser Ser Thr Pro Pro Asp
 35 40 45
 Gln Gln Pro Ser Glu Gln Val Ala Pro Gly Thr Ala Ser Arg Pro Ile
 50 55 60
 Leu Ser Ala Ala Glu Ala Lys Asn Phe Thr Arg Ala His Tyr Phe Ser
 65 70 75 80
 Ala Met Asp Pro Asn Ala Ala Pro Trp Thr Leu Phe Leu Leu Thr Cys
 85 90 95
 Arg Asn Ser Gln Thr Ser Leu Ser Ala Arg Pro Gly Arg Arg Ala Leu
 100 105 110
 His Thr Pro Leu Phe Arg Gln Pro Leu Met Pro Gln Ser Pro Asn Thr
 115 120 125
 Ala His Leu Val Ser Thr Leu Pro Ser Cys Arg Val Asn Thr Lys Glu
 130 135 140
 Pro Phe Met Phe Arg Arg His Arg Glu Ala Leu His Phe Thr Ala Trp
 145 150 155 160
 Ala Lys Lys Arg Ser Thr
 165

<210> 7760

<211> 301

<212> PRT

<213> *Enterobacter cloacae*

<400> 7760

Ile Val Val Arg Asp Phe Ala Gly Phe Arg Ser Arg Cys Thr Ile Pro
 1 5 10 15
 Thr Asp Leu Lys Phe Asn Ile Asn Pro Glu Lys Met Thr Ser Arg
 20 25 30
 Val Ile Ala Leu Asp Leu Asp Gly Thr Leu Leu Thr Pro Gln Lys Thr
 35 40 45
 Leu Leu Pro Ser Ser Leu Glu Ala Leu Lys Arg Ala Gln Glu Ala Gly
 50 55 60
 Tyr Gln Leu Leu Ile Val Thr Gly Arg His His Val Ala Ile His Pro
 65 70 75 80
 Phe Tyr Gln Ala Leu Gly Leu Asp Thr Pro Ala Ile Cys Cys Asn Gly
 85 90 95
 Thr Tyr Leu Tyr Asp Tyr Gln Ala Lys Lys Val Leu Ala Ser Asp Pro
 100 105 110
 Leu Pro Val Thr Gln Ala Leu Gln Leu Ile Asp Leu Leu Asp Glu His
 115 120 125
 Ala Ile His Gly Leu Met Tyr Val Asp Asn Ala Met Val Tyr Glu Arg
 130 135 140
 Pro Thr Gly His Val Ile Arg Thr Ser Asn Trp Ala Leu Ser Leu Pro
 145 150 155 160
 Glu Ala Gln Arg Pro Val Phe Thr Gln Val Ser Ser Leu Arg Gln Ala
 165 170 175
 Ala Glu Asp Val Glu Ala Ile Trp Lys Phe Ala Leu Thr Asp Glu Asp
 180 185 190
 Thr Ala Lys Leu Asn Thr Phe Ala Lys Leu Val Glu His Thr Leu Gly
 195 200 205

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Leu Glu Cys Glu Trp Ser Trp His Asp Gln Val Asp Ile Ala Arg Lys
   210                215                220
Gly Asn Ser Lys Gly Arg Arg Leu Thr Gln Phe Val Glu Ser Gln Gly
  225                230                235
Gly Ser Met Gln Asp Val Ile Ala Phe Gly Asp Asn Tyr Asn Asp Ile
                   245                250                255
Ser Met Leu Glu Ala Ala Gly Thr Gly Val Ala Met Gly Asn Ala Asp
   260                265                270
Asp Ala Val Lys Ala Arg Ala Asp Val Val Ile Gly Asp Asn Thr Thr
   275                280                285
Asp Ser Ile Ala Gln Tyr Ile Tyr Thr His Leu Leu
   290                295                300

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<210> 7761
<211> 185
<212> PRT
<213> Enterobacter cloacae

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<400> 7761
Trp Glu Ala Cys Ser Thr Ala Gly Glu Lys Leu Gly Val Ala Trp Leu
  1                5                10                15
Ala Ser Pro Ala Leu Ala Gln Glu Ala Pro Ala Ala Gly Pro Ile Glu
   20                25                30
Ala Gln Thr Pro Pro Val Asp Ala Glu Pro Asn Asp Val Val Thr
   35                40                45
Gly Ser Arg Ile Pro Gln Pro Asn Leu Glu Gly Ala Ser Pro Val Thr
   50                55                60
Val Val Asn Ser Gln Asp Leu Lys Leu Gln Gly Thr Thr Arg Val Glu
  65                70                75                80
Asp Leu Leu Asn Ser Leu Pro Gln Val Phe Ala Gly Gln Ala Ser Thr
   85                90                95
Leu Ser Asn Gly Ala Asp Gly Thr Ala Thr Val Asp Leu Arg Gly Leu
  100                105                110
Gly Pro Thr Arg Thr Leu Val Leu Val Asn Gly Arg Arg Leu Met Pro
  115                120                125
Gly Asp Pro Thr Thr Ser Ala Ala Asp Leu Asn Ser Ile Pro Ala Ala
  130                135                140
Leu Ile Lys Arg Val Glu Val Leu Thr Gly Gly Ala Ser Ser Thr Tyr
  145                150                155                160
Gly Ala Asp Ala Val Ala Gly Val Val Asp Leu Met Ser Ser Leu Arg
   165                170                175
Gly Arg Pro Ile Pro Pro Tyr Thr Pro
  180                185

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<210> 7762
<211> 86
<212> PRT
<213> Enterobacter cloacae

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<400> 7762
Phe Asp Phe Trp Arg Ile Asp Met Ser Arg Val Cys Gln Val Thr Gly
  1                5                10                15
Lys Arg Pro Val Thr Gly Asn Asn Arg Ser His Ala Leu Asn Ala Thr
   20                25                30
Lys Arg Arg Phe Leu Pro Asn Leu His Ser His Arg Phe Trp Val Glu
   35                40                45
Ser Glu Lys Arg Phe Val Thr Leu Arg Val Ser Ala Lys Gly Met Arg
   50                55                60
Val Ile Asp Lys Lys Gly Ile Asp Thr Val Leu Ser Glu Leu Arg Ala
  65                70                75                80
Arg Gly Glu Lys Tyr

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85

<210> 7763
 <211> 259
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (259)

<400> 7763
 Glu Ser Glu Lys Met Phe Lys Ile Thr Val Cys Leu Leu Thr Phe Asn
 1 5 10 15
 Ser Glu Arg Thr Leu His Asp Val Ile Pro Pro Leu Leu Lys Ile Ala
 20 25 30
 Asp Glu Phe Val Val Val Asp Ser Gly Ser Thr Asp Ala Thr Ile Tyr
 35 40 45
 Ile Cys Gln Ser Tyr Gly Leu Ser Ala Ile Phe Lys Lys Tyr Ser Trp
 50 55 60
 His Gly Glu Gln Met Asn His Ala Val Ser His Ala His Asn Asp Trp
 65 70 75 80
 Val Leu Cys Met Asp Ser Asp Glu Ile Leu Asp Gln Glu Thr Val Asp
 85 90 95
 Ala Ile Leu Lys Leu Lys Met Gly Asp Glu Pro Glu Pro Asp Met Ala
 100 105 110
 Trp Arg Ile Cys Arg His Trp Phe Val Leu Gly Glu Asn Val Arg Thr
 115 120 125
 Ile Tyr Pro Val Ser Ser Pro Asp Tyr Pro Val Arg Leu Phe Asn Arg
 130 135 140
 Thr Gln Ser Arg Phe Asn Asn Arg Pro Val Asp Asp Gln Val Glu Gly
 145 150 155 160
 Phe Leu His Ser Glu Arg Ile Pro Gly Tyr Val Arg His Asp Thr Phe
 165 170 175
 Tyr Ser Leu His Glu Leu Phe Asn Lys Leu Asn Gly Tyr Ser Thr Arg
 180 185 190
 Leu Val Gln Tyr Gln Thr Ile Arg Pro Ser Leu Gly Arg Gly Ala Ile
 195 200 205
 Ser Ala Ile Gly Ala Phe Phe Lys Trp Tyr Leu Phe Ser Gly Ala Trp
 210 215 220
 Arg Gln Gly Lys Val Gly Val Val Thr Gly Phe Tyr Ala Thr Ala Tyr
 225 230 235 240
 Ser Phe Leu Lys Tyr Phe Lys Ala Trp Tyr Gln Asn Arg Glu Lys Lys
 245 250 255
 Asp Ser Xaa

<210> 7764
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 7764
 Arg Gly Asn Lys Ser Trp Leu Lys Val Phe Ala Lys Lys Ile Lys Leu
 1 5 10 15
 Val Ser Ser Ala Gly Thr Gly His Phe Tyr Thr Thr Thr Lys Asn Lys
 20 25 30
 Arg Thr Lys Pro Glu Lys Leu Glu Leu Lys Lys Phe Asp Pro Val Val
 35 40 45
 Arg Gln His Val Leu Tyr Lys Glu Ala Lys Ile Lys
 50 55 60

<210> 7765
 <211> 292
 <212> PRT
 <213> Enterobacter cloacae

<400> 7765
 Ser Pro Cys Ile Glu Lys Pro Arg Asn Cys Gly Val Phe Cys Ile Leu
 1 5 10 15
 His Leu Asn Gly Gly Thr Met Pro Glu Leu Pro Glu Val Glu Thr Ser
 20 25 30
 Arg Arg Gly Ile Glu Pro His Leu Val Gly Ala Thr Ile Leu His Ala
 35 40 45
 Val Val Arg Asn Gly Arg Leu Arg Trp Pro Val Ser Asp Glu Ile His
 50 55 60
 Ala Leu Ser Asp Lys Pro Val Leu Ser Val Gln Arg Arg Ala Lys Tyr
 65 70 75 80
 Leu Leu Leu Glu Leu Pro Asp Gly Trp Ile Ile His Leu Gly Met
 85 90 95
 Ser Gly Ser Leu Arg Ile Leu Thr Glu Glu Leu Pro Ala Glu Lys His
 100 105 110
 Asp His Val Asp Leu Val Met Ser Asn Gly Lys Val Leu Arg Tyr Thr
 115 120 125
 Asp Pro Arg Arg Phe Gly Ala Trp Leu Trp Thr Lys Glu Leu Glu Gly
 130 135 140
 His Asn Val Leu Ala His Leu Gly Pro Glu Pro Leu Ser Glu Ala Phe
 145 150 155 160
 Asn Ala Asp Tyr Leu Lys Glu Lys Cys Ala Lys Lys Lys Thr Pro Ile
 165 170 175
 Lys Pro Trp Leu Met Asp Asn Lys Leu Val Val Gly Val Gly Asn Ile
 180 185 190
 Tyr Ala Ser Glu Ser Leu Phe Ala Ala Gly Ile His Pro Asp Arg Leu
 195 200 205
 Ala Ser Ser Leu Ser Ala Gln Glu Cys Glu Leu Leu Val Arg Val Ile
 210 215 220
 Lys Ala Val Leu Leu Arg Ser Ile Glu Gln Gly Gly Thr Thr Leu Lys
 225 230 235 240
 Asp Phe Leu Gln Ser Asp Gly Lys Pro Gly Tyr Phe Ala Gln Glu Leu
 245 250 255
 Gln Val Tyr Gly Arg Lys Gly Glu Pro Cys Arg Ala Cys Gly Thr Pro
 260 265 270
 Ile Ile Ala Thr Lys His Ala Gln Arg Ala Thr Phe Tyr Cys Arg Gln
 275 280 285
 Cys Gln Lys
 290

<210> 7766
 <211> 465
 <212> PRT
 <213> Enterobacter cloacae

<400> 7766
 Ser Met Ser Arg Gly Ile Ser Arg Thr Leu Ile Ser Leu Ser Tyr His
 1 5 10 15
 His Asn Ala Gln Ala Ser Ala Ile His Arg Tyr Ala Ala Gly Val Arg
 20 25 30
 Val Ile Tyr Ala Ala Lys Thr Arg Arg Asp Thr Ala Ser Ser Arg His
 35 40 45
 Glu Leu Leu Val Trp Val Ile Cys Ala Lys Ile Cys Arg Val Trp Arg
 50 55 60
 Ile Ala Met Arg Gly Asp Phe Tyr Lys Gln Leu Asn Ser Asp Leu Glu

65 70 75 80
 Thr Ala Arg Ala Glu Gly Leu Phe Lys Glu Arg Ile Ile Thr Ser
 85 90 95
 Ala Gln Gln Ala Asp Ile Thr Val Ala Asp Gly Ser His Val Ile Asn
 100 105 110
 Phe Cys Ala Asn Asn Tyr Leu Gly Leu Ala Asn His Pro Glu Leu Ile
 115 120 125
 Ala Ala Ala Lys Asn Gly Met Asp Thr His Gly Phe Gly Met Ala Ser
 130 135 140
 Val Arg Phe Ile Cys Gly Thr Gln Asp Ser His Lys Gln Leu Glu Gln
 145 150 155 160
 Lys Leu Ala Asn Phe Leu Gly Met Glu Asp Ala Ile Leu Tyr Ser Ser
 165 170 175
 Cys Phe Asp Ala Asn Gly Gly Leu Phe Glu Thr Leu Leu Gly Ala Glu
 180 185 190
 Asp Ala Ile Ile Ser Asp Ala Leu Asn His Ala Ser Ile Ile Asp Gly
 195 200 205
 Val Arg Leu Cys Lys Ala Lys Arg Phe Arg Tyr Ala Asn Asn Asp Met
 210 215 220
 Val Glu Leu Glu Ala Arg Leu Lys Glu Ala Arg Glu Ala Gly Ala Arg
 225 230 235 240
 His Val Leu Ile Ala Thr Asp Gly Val Phe Ser Met Asp Gly Val Ile
 245 250 255
 Ala Asn Leu Lys Gly Val Cys Asp Leu Ala Asp Lys Tyr Asp Ala Leu
 260 265 270
 Val Met Val Asp Asp Ser His Ala Val Gly Phe Val Gly Glu Asn Gly
 275 280 285
 Arg Gly Ser His Glu Tyr Cys Asp Val Met Gly Arg Val Asp Ile Ile
 290 295 300
 Thr Gly Thr Leu Gly Lys Ala Leu Gly Gly Ala Ser Gly Gly Tyr Thr
 305 310 315 320
 Ala Ala Arg Lys Glu Val Val Glu Trp Leu Arg Gln Arg Ser Arg Pro
 325 330 335
 Tyr Leu Phe Ser Asn Ser Leu Ala Pro Ala Ile Val Ala Ala Ser Ile
 340 345 350
 Lys Val Leu Glu Met Val Glu Ser Gly Ala Glu Leu Arg Glu Arg Leu
 355 360 365
 Trp Ala Asn Ala Arg Leu Phe Arg Glu Lys Met Ser Ala Ala Gly Phe
 370 375 380
 Thr Leu Ala Gly Ala Asp His Ala Ile Ile Pro Val Met Leu Gly Asp
 385 390 395 400
 Ala Val Val Ala Gln Phe Ala Arg Glu Leu Gln Lys Glu Gly Ile
 405 410 415
 Tyr Val Thr Gly Phe Phe Phe Pro Val Val Pro Lys Gly Gln Ala Arg
 420 425 430
 Ile Arg Thr Gln Met Ser Ala Ala His Ser Pro Glu Gln Ile Glu Arg
 435 440 445
 Ala Val Glu Ala Phe Thr Arg Ile Gly Lys Gln Leu Gly Val Ile Ala
 450 455 460

465

<210> 7767

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 7767

Gly Arg Val Met Lys Ala Leu Ser Lys Leu Lys Ala Glu Glu Gly Ile
 1 5 10 15
 Trp Met Thr Asp Val Pro Glu Pro Glu Val Gly His Asn Asp Leu Leu

20 25 30
 Ile Lys Ile Arg Lys Thr Ala Ile Cys Gly Thr Asp Val His Ile Tyr
 35 40 45
 Asn Trp Asp Gln Trp Ser Gln Lys Thr Ile Pro Val Pro Met Val Val
 50 55 60
 Gly His Glu Tyr Val Gly Glu Val Val Gly Ile Gly Gln Glu Val Lys
 65 70 75 80
 Gly Phe Asn Ile Gly Asp Arg Val Ser Gly Glu Gly His Ile Thr Cys
 85 90 95
 Gly His Cys Arg Asn Cys Arg Gly Gly Arg Thr His Leu Cys Arg Asn
 100 105 110
 Thr Val Gly Val Gly Val Asn Arg Pro Gly Cys Phe Ala Glu Tyr Leu
 115 120 125
 Val Ile Pro Ala Phe Asn Ala Phe Lys Ile Pro Asp Asn Ile Ser Asp
 130 135 140
 Asp Leu Ala Ser Ile Phe Asp Pro Phe Gly Asn Ala Val His Thr Ala
 145 150 155 160
 Leu Ser Phe Asp Leu Val Gly Glu Asp Val Leu Val Ser Gly Ala Gly
 165 170 175
 Pro Ile Gly Ile Met Ala Ala Ala Val Ala Lys His Val Gly Ala Arg
 180 185 190
 Asn Val Val Ile Thr Asp Val Asn Glu Tyr Arg Leu Ser Leu Ala Arg
 195 200 205
 Lys Met Gly Val Thr Arg Ala Val Asp Val Ser Lys Glu Ser Leu Thr
 210 215 220
 Asp Val Met Glu Glu Leu Gly Met Thr Glu Gly Phe Asp Val Gly Leu
 225 230 235 240
 Glu Met Ser Gly Ala Pro Pro Ala Phe Arg Thr Met Leu Asp Thr Met
 245 250 255
 Asn His Gly Gly Arg Ile Ala Met Leu Gly Ile Pro Pro Ser Asp Met
 260 265 270
 Ser Ile Asp Trp Asn Lys Val Ile Phe Lys Gly Leu Phe Ile Lys Gly
 275 280 285
 Ile Tyr Gly Arg Glu Met Phe Glu Thr Trp Tyr Lys Met Ala Ala Leu
 290 295 300
 Ile Gln Ser Gly Leu Asp Leu Ser Pro Ile Ile Thr His Arg Phe Ser
 305 310 315 320
 Ile Asp Glu Phe Gln Gln Gly Phe Asp Ala Met Arg Ser Gly Gln Ser
 325 330 335
 Gly Lys Val Ile Leu Ser Trp Asp Lys
 340 345

<210> 7768

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 7768

Pro Ala Arg Arg Arg Leu Arg Gln Ala Val Gln Asp Arg Cys Arg Arg
 1 5 10 15
 Arg Asn Gly Ile Tyr Gly Leu Ala Glu Pro Arg Arg Ile Ser Met Lys
 20 25 30
 Ile Leu Val Ile Gly Pro Ser Trp Val Gly Asp Met Met Met Ser Gln
 35 40 45
 Ser Leu Tyr Arg Thr Leu Lys Ala Arg Tyr Pro Gln Ala Ile Ile Asp
 50 55 60
 Val Met Ala Pro Ala Trp Cys Arg Pro Leu Leu Ser Arg Met Pro Glu
 65 70 75 80
 Val Asn Glu Ala Ile Pro Met Pro Leu Gly His Gly Ala Leu Glu Ile
 85 90 95
 Gly Glu Arg Arg Lys Leu Gly His Ser Leu Arg Glu Lys Arg Tyr Asp


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      100                      105                      110
Arg Ala Tyr Val Leu Pro Asn Ser Phe Lys Ser Ala Leu Val Pro Phe
      115                      120                      125
Phe Ala Gly Ile Pro His Arg Thr Gly Trp Arg Gly Glu Met Arg Tyr
      130                      135                      140
Gly Leu Leu Asn Asp Ala Arg Val Leu Asp Lys Glu Ala Trp Pro Leu
      145                      150                      155                      160
Met Val Glu Arg Tyr Val Ala Leu Ala Tyr Asp Lys Gly Val Met Arg
      165                      170                      175
Ser Ala Lys Asp Leu Pro Gln Pro Leu Leu Trp Pro Gln Leu Gln Val
      180                      185                      190
Ser Asp Gly Glu Lys Ser His Thr Cys Asn Ala Phe Gly Ile Ser Ser
      195                      200                      205
Glu Arg Pro Met Ile Gly Phe Cys Pro Gly Ala Glu Phe Gly Pro Ala
      210                      215                      220
Lys Arg Trp Pro His Tyr His Tyr Ala Glu Leu Ala Lys Gln Leu Ile
      225                      230                      235                      240
Asp Glu Gly Tyr Gln Ile Val Leu Phe Gly Ser Ala Lys Asp His Glu
      245                      250                      255
Ala Gly Asn Glu Ile Leu Ala Thr Leu Ser Thr Glu Gln Gln Ala Trp
      260                      265                      270
Cys Arg Asn Leu Ala Gly Glu Thr Gln Leu Glu Gln Ala Val Ile Leu
      275                      280                      285
Ile Ala Ala Cys Lys Ala Val Val Thr Asn Asp Ser Gly Leu Met His
      290                      295                      300
Val Ala Ala Ala Leu Asp Arg Pro Leu Val Ala Leu Tyr Gly Pro Ser
      305                      310                      315                      320
Ser Pro Asp Phe Thr Pro Pro Leu Ser His Lys Ala Arg Val Ile Arg
      325                      330                      335
Leu Ile Thr Gly Tyr His Lys Val Arg Lys Gly Asp Ala Glu Gly
      340                      345                      350
Tyr His Gln Ser Leu Ile Asp Ile Thr Pro Gln Arg Val Leu Glu Glu
      355                      360                      365
Leu Asn Ala Leu Leu Leu Ser Glu Glu Gly
      370                      375

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<210> 7769

<211> 329

<212> PRT

<213> *Enterobacter cloacae*

<400> 7769

```

Arg Met Arg Val Leu Ile Val Lys Thr Ser Ser Met Gly Asp Val Leu
1      5      10
His Thr Leu Pro Ser Leu Thr Asp Ala Met Arg Ala Ile Pro Gly Ile
20     25     30
Arg Phe Asp Trp Val Val Glu Glu Gly Phe Ala Gln Ile Pro Thr Trp
35     40     45
His Glu Ala Val Asp Arg Val Ile Pro Val Ala Ile Arg Arg Trp Arg
50     55     60
Lys Ala Trp Phe Ser Ala Pro Ile Lys Ala Glu Arg Lys Ala Phe Arg
65     70     75     80
Glu Ala Val Gln Ala Arg Arg Tyr Asp Ala Ile Val Asp Ala Gln Gly
85     90     95
Leu Val Lys Ser Ala Ala Leu Val Thr Arg Leu Ala His Gly Val Lys
100    105    110
His Gly Met Asp Trp Gln Thr Ala Arg Glu Pro Leu Ala Ser Leu Phe
115    120    125
Tyr Asn Arg Arg His His Ile Ala Lys Gln Gln His Ala Val Glu Arg
130    135    140
Thr Arg Glu Leu Phe Ala Lys Ser Leu Gly Tyr Ala Lys Pro Glu Ala

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145          150          155          160
Gln Gly Asp Tyr Ala Ile Ala Gln His Phe Leu Arg Glu Thr Glu Glu
165
His Ala Glu Pro Tyr Leu Val Phe Leu His Ala Thr Thr Arg Asp Asp
180
Lys His Trp Pro Glu Thr His Trp Arg Arg Leu Ile Glu Leu Met Gln
195
Pro Cys Gly Ile His Ile Lys Leu Pro Trp Gly Ala Glu His Glu Arg
210
Gln Arg Ala Glu Arg Leu Ala Ala Gly Phe Ser His Val Glu Val Leu
225
Pro Lys Leu Thr Leu Ala Gln Val Ala Ala Gln Leu Ala Gly Ala Asn
245
Ala Val Val Ser Val Asp Thr Gly Leu Ser His Leu Thr Ala Ala Leu
260
Asp Arg Pro Asn Ile Thr Ile Phe Gly Pro Thr Asp Pro Gly Leu Ile
275
Gly Gly Tyr Gly Lys Asn Gln His Gln Met Val Ser Pro Thr Gln Gln
290
Thr Lys Asp Ile Ser Ala Asp Ala Ile Phe Ser Phe Leu Gln Gly Ser
305
His Arg Leu Ser Asn Arg Asp Ile
325

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<210> 7770

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 7770

```

Pro Met Ser Tyr Val Phe Leu Leu Ile Leu Leu Phe Pro Val Lys Leu
1
Ile Arg Lys Leu Phe Arg Lys Asp Thr Gly Lys Asn Leu Val Ile Gln
20
Thr Ala Lys Ile Gly Asp Phe Ile Asn Ala Thr Pro Leu Leu Ala Trp
35
Leu Gln Lys Ser Asp Val Leu Ile Ser Arg Ser Val Gly Ala Leu Ala
50
Lys His Asp Glu Thr Ile Glu Gln Ile Tyr Phe Ile Glu Gln His Lys
65
Arg Asn Leu Trp Arg Lys Leu Cys Phe Ala Cys Arg Ile Met Asn Arg
85
Tyr Asp Asn Val Tyr Leu Leu Gln Pro Asn Ser Val Asn Leu Phe Phe
100
Ala Ala Val Cys Asn Ala Lys Asn Lys Gln Phe Leu Ser Ile Tyr Thr
115
Arg Arg Trp Tyr His Gly Ile Phe Tyr Leu Ala Ala Asp Gly Thr Val
130
Glu His Gly Lys Lys Thr Leu Ser Val Ala Asn Tyr Leu Lys Leu Ala
145
Asp Arg Ser Leu Thr Trp Gln Asp Ser Pro Lys His Ala Thr Lys Pro
165
Leu Phe Lys Pro Thr Thr Trp Pro Ala Ile Leu Asp Lys Pro Asp Val
180
Ile Arg Ile Gly Ile Ser Ile Ala Ala Gly Asn Lys Ala Lys Thr Val
195
Pro Pro Val Ile Trp Lys Arg Ile Val Asp Gln Leu Ala Asp Leu Pro
210
Cys Glu Phe Tyr Val Phe Gly Ala Pro Asn Glu Gln Ser Trp Met Asp
225
Asp Ile Thr Arg Leu Tyr Gly Glu Ile Pro Asn Phe Ile Asn Leu Ile

```

245 250 255
 Gly Lys Ile Ser Leu Glu Glu Leu Pro Trp Ala Ile Ser Lys Met Asp
 260 265 270
 Cys Tyr Ile Ala Ser Asp Ser Gly Asn Val Tyr Ile Ala Asp Ala Val
 275 280 285
 Gly Val Pro Val Val Leu Leu Phe Gly Pro Cys Cys His Tyr Glu Gln
 290 295 300
 Arg Pro Leu Gly Asn Val Met Leu Ile Gly Asn Asp Asp Asn Ile Cys
 305 310 315 320
 Ser Tyr Val Phe Glu Thr Arg Tyr Tyr Phe Pro Gln Glu Arg Glu Ala
 325 330 335
 Leu Phe Ser Val Thr Asp Ser Ala Leu His Asp Leu Gln Gln Phe Val
 340 345 350
 Arg Thr Leu Pro Lys Ala Arg Ser Leu Ala Ser Ala Thr Asp Ala Gln
 355 360 365
 Gly Asn
 370

<210> 7771

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 7771

Tyr Asn Ala Asp Lys Met Met Met Asn Asn Leu Pro Asp Thr Pro Asp
 1 5 10 15
 Leu Arg Ile Leu Leu Ile Lys Leu Arg His Gly Asp Met Leu Leu
 20 25 30
 Thr Thr Pro Val Ile Asn Ser Leu Arg Gln Lys Trp Pro Glu Ala Gln
 35 40 45
 Ile Asp Val Leu Leu Tyr Glu Glu Thr Arg Asp Met Leu Ala Ala His
 50 55 60
 Pro Ala Ile Gly Thr Ile Tyr Gly Ile Asp Arg Lys Trp Lys Gln Leu
 65 70 75 80
 Gly Thr Leu Lys His Leu Gln Lys Glu Trp Gln Leu Leu Arg Ala Leu
 85 90 95
 Arg Ala Gln His Tyr His Leu Val Ile Asn Leu Ala Asp Gln Trp Arg
 100 105 110
 Ser Ala Ile Val Thr Arg Phe Thr Gly Ala Pro Val Arg Leu Gly Phe
 115 120 125
 Ala Phe Asn Lys Arg Lys Asn Ala Phe Trp Arg Phe Cys His Ser Glu
 130 135 140
 Leu Val Ser Val Ala Ser His Gln Ser Leu His Thr Val Glu Gln Asn
 145 150 155 160
 Leu Ser Ile Leu Ser Ala Leu Pro Val Met Ala Asn Pro Thr Val Thr
 165 170 175
 Met Ala Tyr Ser Ala Asp Asp Trp Arg His Ala His Gln Lys Leu Thr
 180 185 190
 Gln Lys Gly Val Gly Asp Arg Tyr Ile Val Ile Gln Pro Thr Ser Arg
 195 200 205
 Trp Phe Phe Lys Cys Trp Asp Glu Gly Lys Met Ala Gln Thr Ile Ala
 210 215 220
 Ala Leu Gln Gln Asp Gly His Thr Ile Val Leu Thr Ala Gly Pro Asp
 225 230 235 240
 Lys Lys Glu Leu Ala Met Ile Asp Arg Ile Leu Ala Ala Ser Pro Gln
 245 250 255
 Thr Gly Val Val Ser Leu Ala Gly Gln Leu Thr Leu Arg Gln Leu Ala
 260 265 270
 Ser Leu Ile Asp His Ala Ile Leu Phe Ile Gly Val Asp Ser Val Pro
 275 280 285
 Met His Met Ala Ala Ala Leu Gln Thr Pro Cys Val Ala Leu Phe Gly

290 295 300
 Pro Ser Lys Leu Thr Phe Trp Ser Pro Trp Gln Val Asn Gly Glu Val
 305 310 315 320
 Ile Trp Ala Gly Asn Tyr Gly Pro Leu Pro Asn Pro Asp Ala Ile Asp
 325 330 335
 Thr Lys Thr Thr Glu Arg Tyr Leu Asp Ala Ile Pro Val Asp Ala Val
 340 345 350
 Val Ser Ala Ala Arg Arg Tyr Leu Gln
 355 360

<210> 7772

<211> 349

<212> PRT

<213> *Enterobacter cloacae*

<400> 7772

Arg His Leu Pro Ala Ile His Cys Phe Gly Arg Gln Pro Lys Ile Ile
 1 5 10 15
 Arg Phe His Met Gln Asn Ser Ala Pro Leu Leu Ser Val Val Val Ala
 20 25 30
 Val Tyr Asn Gly Glu Ala Phe Leu Asp Gln Phe Phe Thr Cys Leu Val
 35 40 45
 Asn Gln His Ile Asp Ser Met Glu Val Ile Ile Val Asn Asp Gly Ser
 50 55 60
 Thr Asp Arg Ser Met Gln Ile Val Glu Lys Trp Arg Glu Lys Leu Pro
 65 70 75 80
 Gln Met Gln Val Ile Glu Gln Pro Asn Gln Gly Val Ser Ile Ala Arg
 85 90 95
 Asn Thr Gly Leu Ala Val Ala Thr Gly Gln Tyr Leu Ser Phe Pro Asp
 100 105 110
 Ile Asp Asp Val Phe Lys Pro Gly Met Tyr Gln Arg Leu Leu Asp Met
 115 120 125
 Ala Val Thr Gln Asn Leu Asp Val Ala Thr Cys Asn Gly Asn Tyr Val
 130 135 140
 Trp Glu Asn Asn Lys Lys Pro Ser Arg Pro Ile Phe Pro Glu Val Lys
 145 150 155 160
 Leu Ala Ser Thr Gly Val Met Asn Gly Ala Val Trp Leu Lys Lys Ala
 165 170 175
 Leu Asp Ser Arg Lys Phe Leu His Val Thr Trp Leu Asn Ile Tyr Arg
 180 185 190
 His Asp Phe Ile Arg Gln His Gly Phe Arg Phe Glu Pro Gly Leu Arg
 195 200 205
 His Gln Asp Ile Pro Trp Thr Thr Glu Val Leu Leu Ala Ala Glu Arg
 210 215 220
 Val Gln Tyr Thr Ser Glu Arg Phe Tyr Asp Tyr Tyr Ile His Ser Ala
 225 230 235 240
 Ser Val Ser His Thr Pro Asp Asn Asp Asp Thr Leu Ile Arg Ser Ala
 245 250 255
 Arg His Tyr Met Lys Ile Leu Lys Met Leu Asp Ala Ile Asn Gln Arg
 260 265 270
 Tyr Pro Asp Lys Val Lys Asn Ile Pro Ala Cys His Trp Gln Ile Ala
 275 280 285
 Lys Glu Gly Leu Gly Ile Ile His Thr Phe Asp Asn Met Lys Asp Glu
 290 295 300
 Ala Lys Lys Ala Met Ile Ile Lys Glu Phe Phe Asp Thr Gly Ile Trp
 305 310 315 320
 Lys Leu Ile Trp Lys Ser Ala Lys Ser Pro Arg Leu Arg Trp Arg Leu
 325 330 335
 Gly Arg Arg Tyr Phe Arg Leu Lys Arg Tyr Leu Ala
 340 345

<210> 7773

<211> 437

<212> PRT

<213> *Enterobacter cloacae*

<400> 7773

```

Asn Phe Pro Ala Glu Thr Lys Lys Thr Asp Asn Arg Leu Glu Leu Leu
1      5      10      15
Tyr Thr Ala Leu Leu Tyr Ile Ile Gln Pro Leu Val Trp Leu Arg Leu
20      25      30
Leu Leu Arg Ser Arg Lys Ala Pro Ala Tyr Arg Lys Arg Trp Ala Glu
35      40      45
Arg Tyr Gly Tyr Cys Arg Asn Lys Val Ala Pro Asp Gly Ile Leu Leu
50      55      60
His Ser Val Ser Val Gly Glu Thr Leu Ala Ala Ile Pro Leu Val Arg
65      70      75      80
Ala Leu Arg His Arg Tyr Pro Ser Leu Pro Ile Thr Val Thr Thr Met
85      90      95
Thr Pro Thr Gly Ser Glu Arg Val Met Ser Ala Phe Gly Lys Asp Val
100     105
His His Val Tyr Leu Pro Tyr Asp Leu Pro Cys Ala Met Asn Arg Phe
115     120     125
Leu Asn Thr Val Arg Pro Lys Leu Val Ile Val Met Glu Thr Glu Leu
130     135     140
Trp Pro Asn Met Ile Ser Ala Leu His Ala Arg Lys Ile Pro Leu Val
145     150     155     160
Ile Ala Asn Ala Arg Leu Ser Glu Arg Ser Ala Lys Gly Tyr Gly Lys
165     170     175
Leu Gly Lys Phe Met Arg Arg Leu Leu Ser Lys Ile Thr Leu Ile Ala
180     185     190
Ala Gln Asn Glu Glu Asp Ala Ala Arg Phe Ile Ala Leu Gly Leu Lys
195     200     205
Arg Asn Gln Leu Ala Val Thr Gly Ser Leu Lys Phe Asp Ile Ser Val
210     215     220
Thr Pro Glu Leu Ala Ala Arg Ala Val Thr Leu Arg Arg Gln Trp Ala
225     230     235     240
Pro Arg Arg Gln Val Trp Ile Ala Thr Ser Thr His Asp Gly Glu Glu
245     250     255
Ala Ile Ile Leu Gln Ala His Arg Gln Leu Leu Glu Lys Phe Pro Asp
260     265     270
Leu Leu Leu Ile Leu Val Pro Arg His Pro Glu Arg Phe Lys Asp Ala
275     280     285
Arg Glu Met Val Gln Lys Gly Gly Phe Ser Phe Thr Leu Arg Ser Ser
290     295     300
Gly Glu Ile Pro Ser Gly Ser Thr Gln Val Val Ile Gly Asp Thr Met
305     310     315     320
Gly Glu Leu Met Leu Leu Tyr Gly Ile Ala Asp Leu Ala Phe Val Gly
325     330     335
Gly Ser Leu Val Glu Arg Gly Gly His Asn Pro Leu Glu Pro Ala Ala
340     345     350
His Ala Ile Pro Val Leu Met Gly Gly Pro His Thr Phe Asn Phe Lys Asp
355     360     365
Ile Cys Ala Lys Leu Gln Gln Ala Asp Gly Leu Ile Thr Val Thr Asp
370     375     380
Ala Asp Ser Val Val Lys Glu Val Ser Thr Leu Leu Thr Asp Glu Asp
385     390     395     400
Tyr Arg Leu Trp Tyr Gly Arg His Ala Val Glu Val Leu His Gln Asn
405     410     415
Gln Gly Ala Leu Thr Arg Leu Leu Gln Leu Leu Gln Pro Tyr Leu Pro
420     425     430
Gln Arg Ser His

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435

<210> 7774

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 7774

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His Thr Asp Ser Asp Met Pro Gln Lys Arg Lys Ile Leu Leu Leu Asp
1          5          10          15
Thr Gly Lys Glu Trp Gly Gly Gly Thr Asn Ser Met Leu Glu Leu Leu
20          25          30
Lys Arg Ile Asn Arg Glu Lys Phe Asp Ile Thr Cys Cys Phe Tyr Ser
35          40          45
Asp Tyr Ser Arg Ala Glu Gly Glu Thr Ile Gly Gln Val Leu Asn Ser
50          55          60
Ile Gly Ile Pro Leu Leu Val Ile Pro Gln Arg Lys Gln Pro Ala Trp
65          70          75          80
Ala Lys Leu Leu Lys Glu Ala Gly Arg Gly Leu Leu Phe Phe Ser Arg
85          90          95
Ser Ala Arg Lys Ala Phe Thr Arg His Ile Asp Thr Leu Trp Arg Ile
100          105          110
Arg Pro Asn Val Ser Lys Ile Glu Thr Ile Phe Arg Glu Gly Gly Phe
115          120          125
Asp Thr Leu Tyr Met Asn Asn Gln Pro Gly Ser Asn Glu Glu Gly Tyr
130          135          140
Leu Ala Gly Ala Asn Leu His Ala Arg Ile Ile Gln His Cys Arg Ile
145          150          155          160
Glu Pro Val Leu Thr Pro Pro Leu Val Lys Leu Val Asn Thr His Ala
165          170          175          180
Thr Lys Ile Ile Ala Val Ser His Gly Val Glu Arg Val Leu Leu Gln
180          185          190
His Gly Val Arg Pro Ala Leu Cys Thr Thr Val Asn Asn Ala Ile Asp
195          200          205
Ile His Gln Pro Leu Pro Asp Arg Arg Ala Met Arg Gln Arg Leu Asn
210          215          220
Ile Asp Asp Asp Thr Phe Val Phe Gly Ser Val Gly Ser Leu Ile Pro
225          230          235          240
Arg Lys Ala Asn His His Thr Leu Glu Ala Leu Ala Gln Phe Asn Gln
245          250          255
Arg His Pro Gln Ala Lys Trp Lys Met Val Leu Val Gly Glu Gly Ala
260          265          270
Glu Arg Gly Ala Leu Thr Ala Gln Ala Asp Ala Leu Gly Ile Ala Glu
275          280          285
His Val Ile Phe Thr Gly Phe Gln Asn Thr Pro Phe Asp Tyr Leu Ala
290          295          300
Thr Phe Asp Ala Phe Ile Leu Ala Ser Lys Ser Glu Gly Leu Pro Arg
305          310          315          320
Val Val Leu Glu Ala Met Leu Leu Asn Ile Pro Val Ile Gly Ser Lys
325          330          335
Val Thr Gly Thr Ala Glu Leu Ile Asp His Glu Ser Thr Gly Leu Leu
340          345          350
Phe Pro Trp Ser Asp Val Ser Gln Leu Ala Gln His Leu Asp Asn Ile
355          360          365
Trp Gln Asp Pro Ala Leu Arg Ala Arg Leu Ala Ala Ala Ala His Gln
370          375          380
Asn Val Cys Asn Met Tyr Ala Ile Glu Ser Tyr Val Asn Gly Val Glu
385          390          395          400
Ala Val Leu Gly Ala Gln
405

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<210> 7775

<211> 325

<212> PRT

<213> *Enterobacter cloacae*

<400> 7775

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Arg Ser Gly Tyr Ser Pro Thr His Thr Ser Lys Val Thr Val Met Ile
1      5      10      15
Ile Val Thr Gly Gly Ala Gly Phe Ile Gly Ser Asn Ile Val Lys Ala
20      25      30
Leu Asn Asp Lys Gly Ile Thr Asp Ile Leu Val Val Asp Asn Leu Lys
35      40      45
Asp Gly Thr Lys Phe Val Asn Leu Val Asp Leu Asn Ile Ala Asp Tyr
50      55      60
Met Asp Lys Glu Asp Phe Leu Ile Gln Ile Met Ala Gly Glu Glu Phe
65      70      75      80
Gly Glu Ile Glu Ala Ile Phe His Glu Gly Ala Cys Ser Ser Thr Thr
85      90      95
Glu Trp Asp Gly Lys Tyr Met Met Asp Asn Asn Tyr Gln Tyr Ser Lys
100     105     110
Glu Leu Leu His Tyr Cys Leu Glu Arg Glu Ile Pro Phe Leu Tyr Ala
115     120     125
Ser Ser Ala Ala Thr Tyr Gly Gly Arg Thr Ser Asp Phe Ile Glu Ser
130     135     140
Arg Glu Tyr Glu Gln Pro Leu Asn Val Tyr Gly Tyr Ser Lys Phe Leu
145     150     155     160
Phe Asp Glu Tyr Val Arg Gln Ile Leu Pro Glu Ala Asn Ser Gln Ile
165     170     175
Val Gly Phe Arg Tyr Phe Asn Val Tyr Gly Pro Arg Glu Gly His Lys
180     185     190
Gly Ser Met Ala Ser Val Ala Phe His Leu Asn Thr Gln Leu Asn Asn
195     200     205
Gly Glu Ser Pro Lys Leu Phe Glu Gly Ser Asp Gly Phe Lys Arg Asp
210     215     220
Phe Val Tyr Val Gly Asp Val Ala Ala Val Asn Leu Trp Phe Leu Glu
225     230     235     240
Asn Gly Val Ser Gly Ile Phe Asn Leu Gly Thr Gly Arg Ala Glu Ser
245     250     255
Phe Gln Ala Val Ala Asp Ala Thr Leu Ala Tyr His Lys Lys Gly Ser
260     265     270
Ile Glu Tyr Ile Pro Phe Pro Asp Lys Leu Lys Gly Arg Tyr Gln Ala
275     280     285
Phe Thr Gln Ala Asp Leu Thr Asn Leu Arg Ala Ala Gly Tyr Asp Lys
290     295     300
Pro Phe Lys Thr Val Ala Glu Gly Val Thr Glu Tyr Met Ala Trp Leu
305     310     315     320
Asn Arg Asp Ala
325

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<210> 7776

<211> 406

<212> PRT

<213> *Enterobacter cloacae*

<400> 7776

```

Gly Ile Met Glu Lys Ile Lys Pro Arg Leu Tyr Gln Leu Thr Ile Ala
1      5      10      15
Leu Ser Leu Ile Ser Leu Ile Leu Ala Leu Val Ser Ser Gly Lys Gln
20      25      30
Arg Glu Phe Phe Tyr Ile Ala Ile Tyr Val Ser Ile Ile Gly Leu Ala
35      40      45

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Phe Glu Tyr Lys Lys Ile Thr Leu Arg Pro Phe Thr Ile Ala Leu Pro
  50          55          60
Ile Leu Leu Ile Gly Leu Leu Asn Leu Gly Trp Tyr Leu Leu Tyr Glu
  65          70          75          80
Tyr His Asn Glu Gly Leu Asn Leu Tyr Ser Asp Tyr Leu Gly Ala Ser
          85          90          95
Lys Lys Leu Ile Leu Ala Ser Val Leu Ile Phe Tyr Ile Asp Arg Phe
          100          105          110
Lys Phe Tyr Ile Asp Lys Asp Thr Phe Arg Lys Phe Phe Phe Phe Ala
          115          120          125
Thr Ala Leu Gly Phe Val Leu Ala Thr Gly Tyr Gly Leu Trp Gln Ala
          130          135          140
Ser Gln Gly Met Thr Arg Val Glu Met Ala Ile Asn Arg Ala Thr Val
          145          150          155          160
Ser Ala Tyr Val Tyr Ser Val Leu Ser Leu Ala Phe Val Tyr Ser Leu
          165          170          175
Tyr Leu Gln Gln Asn Val Lys Leu Tyr Val Val Ala Gly Phe Thr Ile
          180          185          190
Leu Ile Ser Tyr Phe Val Ile Leu Leu Thr Gly Thr Arg Ala Ala Met
          195          200          205
Gly Leu Tyr Leu Leu Leu Ala Ile Val Leu Thr Leu Tyr His Phe Arg
          210          215          220
Lys Ile His Leu Lys Ser Ala Leu Ile Phe Leu Cys Ile Val Ala Gly
          225          230          235          240
Val Val Ile Val Ser Tyr Lys Pro Leu Ile Ser Ser Lys Ile Lys Gln
          245          250          255
Thr Gln Arg Glu Val Glu Arg Tyr Gln Gln Gly Phe Asp Arg Thr Ser
          260          265          270
Leu Gly Ala Arg Phe Ser Met Trp Thr Val Gly Ile Glu Asn Gly Leu
          275          280          285
Ala His Pro Leu Gly Gln Ser Leu Glu Gln Arg Glu Ala Trp Thr Arg
          290          295          300
Gln Tyr Ile Lys Asp Gly His Pro His Leu Gly Ser Ala Leu Glu Tyr
          305          310          315          320
Ile Lys Val His Leu His Asn Glu Phe Ile Glu Lys Tyr Ser Leu Gln
          325          330          335
Gly Ile Pro Gly Val Thr Val Met Leu Phe Phe Phe Val Ser Met Ile
          340          345          350
Ala Tyr Ala Leu Arg Asn Arg Asn Ala Leu Leu Leu Thr Ser Met Leu
          355          360          365
Leu Leu Leu Leu Tyr Gly Leu Thr Asp Val Ile Leu Leu Ser Ser Glu
          370          375          380
Ala Leu Ile Phe Phe Met Ile Leu Phe Ala Leu Ser Thr Pro Phe Ser
          385          390          395          400
Gln Thr Lys Gln Gln
          405

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<210> 7777

<211> 384

<212> PRT

<213> *Enterobacter cloacae*

<400> 7777

```

Lys Thr Ile Lys Ser Ala Tyr Phe Ala Leu Ser Lys Ile Thr Gly Leu
  1          5          10          15
Ile Met Arg Ile Leu Met Ile Ile Asp Gly Leu Pro Gly Gly Gly Ala
          20          25          30
Glu Lys Thr Val Leu Thr Leu Ser Ser Gly Leu Thr Glu Leu Gly His
          35          40          45
Gln Val Thr Leu Phe Ser Leu Arg Lys Val Cys Asp Tyr Ala Ile Pro
          50          55          60

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Glu Gly Ile Asp Phe Gln Ile Val Gln Asp Thr Cys Lys Lys Pro Trp
 65 70 75 80
 Arg Lys Leu Thr Glu Ile Pro Arg Arg Ala Arg Leu Leu Asp Arg Ala
 85 90 95
 Ile Glu Asn Ala Glu Arg Ser Gly Lys Phe Asp Val Val Phe Ser His
 100 105 110
 Leu His Lys Thr Asp Arg Ile Val Ala His Ser Arg Val Leu Asp Arg
 115 120 125
 Asp Lys Val Trp Phe Cys Val His Gly Met Phe Ser Phe Ser Tyr Leu
 130 135 140
 Arg His Arg Ser Gly Leu Ser Arg Trp Phe Lys His Tyr Lys Ile Arg
 145 150 155 160
 His Thr Tyr Glu Asn Arg Asn Val Val Ala Val Ser Gly Leu Val Leu
 165 170 175
 His Asp Leu Ser Gln Val Leu Ala Ile Pro Leu Arg Arg Lys Ala Val
 180 185 190
 Ile His Asn Pro Phe Asp Ile Pro Glu Ile Gln Arg Leu Ala Glu Ala
 195 200 205
 Pro Phe Glu Met Gln Gly Gln Asp Tyr Ile Ile His Val Gly Arg Phe
 210 215 220
 His Glu His Lys Arg His Asp Arg Leu Leu Arg Ala Phe Ala Leu Ser
 225 230 235 240
 Lys Ile Asp Ala Ser Leu Val Leu Met Gly Lys Gly Ser Asp Ala Lys
 245 250 255
 Ile Asn Gln Leu Lys Gln Leu Ala Ala Lys Leu Gly Ile Glu Asn Lys
 260 265 270
 Ile Val Phe Arg Pro Phe Glu Thr Asn Pro Tyr Pro Trp Ile Lys Gly
 275 280 285
 Ala Arg Leu Leu Val Leu Ser Ser Asp Cys Glu Gly Phe Gly Asn Val
 290 295 300
 Leu Val Glu Ser Ile Ile Cys Gln Thr Pro Pro Val Ser Thr Asn Cys
 305 310 315 320
 Pro Gly Gly Pro Ala Glu Ile Leu Thr Gly Pro Leu Ala Arg Gly Leu
 325 330 335
 Thr Ala Leu Thr Asp Glu Ser Leu Ala Lys Thr Leu Ala Glu Leu Tyr
 340 345 350
 Ala Ser Pro Pro Val Val Asp Arg Glu Thr Ile Ala Ser Phe Gly Ile
 355 360 365
 Asn Ala Ile Cys Gln Gln Tyr Ile Ala Leu Val Asp Asn Gln Lys
 370 375 380

<210> 7778

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 7778

Met Pro Leu Met Asn Ser Pro Leu Lys Met Thr Leu Phe Gln Ser Met
 1 5 10 15
 Asp Ile Ser Asp Gly Gly Ile Pro Ser Ile Ala Ile Arg Pro Pro Trp
 20 25 30
 Phe Met Val Ser Ser Met Val Arg Asn Ala Gly Gly Ala Pro Asp Ile
 35 40 45
 Ser Arg Pro Thr Ser Lys Pro Ser Val Met Pro Ser Ser Ser Ile Thr
 50 55 60
 Ser Val Arg Leu Ser Phe Glu Thr Ser Thr Ala Arg Val Thr Pro Ile
 65 70 75 80
 Leu Arg Ala Ser Asp Arg Arg Tyr Ser Phe Thr Ser Val Ile Thr Thr
 85 90 95
 Leu Arg Ala Pro Thr Cys Phe Ala Thr Ala Ala Ile Ile Pro Met
 100 105 110

Gly Pro Ala Pro Glu Thr Ser Thr Ser Ser Pro Thr Arg Ser Lys Glu
 115 120 125
 Ser Ala Val Cys Thr Ala Leu Pro Asn Gly Ser Lys Met Glu Ala Arg
 130 135 140
 Ser Ser Glu Ile Leu Ser Gly Ile Leu Asn Ala Leu Asn Ala Gly Ile
 145 150 155 160
 Thr Arg Tyr Ser Ala Lys Gln Pro Gly Arg Phe Thr Pro Thr Pro Thr
 165 170 175
 Val Leu Arg His Arg Trp Val Arg Pro Arg Gln Leu Arg Gln
 180 185 190

<210> 7779

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 7779

Arg Tyr Arg Arg Ser Arg Lys Leu Ile Phe Met Ala Phe Leu Ser Val
 1 5 10 15
 Ile Ile Ala Ala His Asn Ala Glu Ala Thr Leu His Ala Thr Leu Ser
 20 25 30
 Ser Leu Leu Ala Ala Ile Gly Gln Asp Thr Glu Val Ile Phe Asn
 35 40 45
 Asp Asn Ser Glu Asp Ala Thr Gln Ala Ile Ile Glu Glu Trp Ser Pro
 50 55 60
 Lys Phe Pro Gln Ile Ile Thr Arg Thr Val Asn Phe Arg Asn Val Gly
 65 70 75 80
 Arg Val Arg Asn Ser Ala Val Ala Leu Ala Ser Gly Glu Tyr Ile Thr
 85 90 95
 Met Leu Asp Ser Asp Asp Cys Leu Lys Pro Gly Ser Leu Gly Asp Ala
 100 105 110
 Ile Ala Phe Leu Lys Ala Gln Arg Pro Asp Met Leu Thr Arg Leu
 115 120 125
 Leu Glu Ile Arg Asp Pro Arg Lys Met Thr Ser Asp Trp Gln Gly Phe
 130 135 140
 Asn Pro Val Pro Leu Pro Arg Asn Glu Ala Val Ala Arg Phe Leu Arg
 145 150 155 160
 His Lys Asp Phe Gln Ala His Leu Ile Gly Gln Phe Ile His Arg Ser
 165 170 175
 Leu Tyr Glu Ser Asn Pro Ile Pro Pro Met Leu Cys Tyr Glu Asp Phe
 180 185 190
 Ala Val Phe Pro Gly Met Leu Met Gln Ser Asn Lys Ile Val Tyr Gln
 195 200 205
 Arg Gln Gly His Tyr Tyr Ile Lys Arg Arg Asp Ser Leu Ser Ser
 210 215 220
 Thr Leu Asp Ala Ser Lys Ile Ser Thr Leu Val Glu Cys Thr Leu Gln
 225 230 235 240
 Met Glu Arg Thr Phe Pro Ser Ser Tyr Lys His Leu Val Asn Cys His
 245 250 255
 Trp Phe Asp Ile Tyr Ser Asn His Arg Ser Cys Leu Thr Asp Gln Gln
 260 265 270
 Leu Gln Leu Val Lys Gln Arg Val Lys Ala Met Tyr Thr Leu Ser Phe
 275 280 285
 Phe Leu Ser Thr Asp Val Arg Phe Ser Tyr Lys Lys Arg Val Ile Glu
 290 295 300
 Ala Leu Trp Lys Lys
 305 310

<210> 7780

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 7780

Cys Cys Arg Leu Arg Arg Lys Glu Ile Pro Ala Met Lys Leu His Arg
 1 5 10 15
 Leu Ala Ile Val Arg Gln Lys Tyr Arg Pro Asp Gly Gly Ala Glu Arg
 20 25 30
 Phe Val Ser Arg Ala Leu Thr Ala Leu Ser Asn Gln Asn Leu Glu Leu
 35 40 45
 Asn Val Ile Thr Arg Glu Trp Gln Gly Glu Lys Gln Asp Asp Trp His
 50 55 60
 Ile His Ile Cys Asp Pro Arg Lys Trp Gly Arg Ile Ser Arg Glu Arg
 65 70 75
 Gly Phe Ala His Ala Ala Arg Ala Leu Trp Gln Gln Gln Phe Asp
 85 90 95
 Ile Val Gln Ser His Glu Arg Ile Pro Gly Cys Asp Ile Tyr Arg Ala
 100 105 110
 Gly Asp Gly Val His Arg Arg Trp Leu Leu Gln Arg Thr Arg Ile Leu
 115 120 125
 Pro Ala Trp Arg Ala Lys Leu Leu Met His Asp Arg Tyr His Arg Tyr
 130 135 140
 Val Met Asn Ala Glu Arg Glu Met Tyr Gln Ala Pro Glu Leu Lys Ala
 145 150 155 160
 Val Ile Cys Asn Ala Glu Met Ile Lys Arg Glu Ile Val Glu Asp Phe
 165 170 175
 Asp Ile Asp Ala Lys Lys Ile His Val Ile Tyr Asn Ser Ile Asp Ser
 180 185 190
 Ser Arg Phe Val Pro Ala Glu Glu Arg Gln Arg Ala Val Leu Arg Gln
 195 200 205
 Gln Phe Gly Leu Pro Ala Asp Ala Val Ile Phe Cys Phe Val Gly Ser
 210 215 220
 Gly Phe Glu Arg Lys Gly Leu Ala Ser Ala Ile Arg Ala Ile Ala Gly
 225 230 235 240
 Thr Ser Ala Trp Leu Val Val Gly Gln Asp Lys Ala Glu Ser Arg
 245 250 255
 Tyr Arg Asp Leu Ala Arg Ser Leu Gly Cys Glu Gly Gln Ile Arg Phe
 260 265 270
 Leu Gly Met Gln Lys Glu Thr Leu Pro Phe Tyr Gln Leu Ser Asp Gly
 275 280 285
 Leu Leu Leu Pro Thr Leu Tyr Asp Pro Phe Pro Asn Val Ile Leu Glu
 290 295 300
 Ala Met Ala Cys Gly Leu Pro Val Ile Thr Ser Glu Ser Cys Gly Gly
 305 310 315 320
 Ser Glu Phe Ile Glu Gln Gly Gln Asn Gly Phe Tyr Cys Asp Ala Leu
 325 330 335
 Asp Ile His Thr Leu Lys Glu Ala Val Met Ser Ile Pro Ser Leu Glu
 340 345 350
 Lys Asn Asn Asn Met Gly Leu Ala Ala Arg Glu Arg Val Arg Glu Ala
 355 360 365
 Thr Pro Glu Lys Leu Ser Ser Gln Leu Ile Ser Leu Tyr Gln Lys Leu
 370 375 380
 Leu Asp
 385

<210> 7781

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 7781

Ser Pro Ala Ser Glu Pro Gly Arg Thr Asp Pro Ser Ala Ala Thr Ser

```

1           5           10           15
Ala Thr Leu Ser Ala Ala Ala Glu Pro Leu Met Ser Thr Arg Leu Ser
20          25          30
Val Val Met Ile Ala Lys Asn Ala Ala Asp Leu Leu Pro Asp Cys Leu
35          40          45
Ala Ser Val Ala Trp Ala Asp Glu Ile Val Ile Leu Asp Ser Gly Ser
50          55          60
Thr Asp Asn Thr Ala Asp Val Ala Arg Ala Ala Gly Ala Lys Val Phe
65          70          75          80
Thr Asp Thr Asp Trp Gln Gly Tyr Gly Ile Gln Arg Gln Arg Ala Gln
85          90          95
Gly Tyr Ala Thr Gly Asp Tyr Val Leu Met Ile Asp Thr Asp Glu Arg
100         105         110
Val Thr Pro Glu Leu Arg Gln Ala Ile Gln Thr Val Leu Ala Ala Pro
115         120         125
Gln Pro Gly Ala Val Tyr Ser Ile Ala Arg Arg Asn Tyr Phe Leu Gly
130         135         140
Arg Phe Met Arg His Ser Gly Trp Tyr Pro Asp Arg Val Met Arg Leu
145         150         155         160
Tyr Ala Arg Glu Arg Tyr Gln Tyr Asn Asp Asn Leu Val His Glu Ser
165         170         175
Leu Ala Cys Asp Asn Ala Gln Val Ile Pro Leu Thr Gly Asp Leu Leu
180         185         190
His Leu Thr Cys Arg Asp Phe Ala Ser Phe Gln Arg Lys Gln Leu Asn
195         200         205
Tyr Ala Thr Ala Trp Ala Gln Glu Arg His Ala Arg Gly Lys Lys Ala
210         215         220
Thr Leu Thr Gly Ile Phe Thr His Thr Leu Gly Ala Phe Leu Lys Thr
225         230         235         240
Leu Leu Leu Arg Gly Gly Val Leu Asp Gly Lys Gln Gly Trp Leu Leu
245         250         255
Ala Val Val Asn Ala Gln Tyr Thr Phe Asn Lys Tyr Thr Glu Leu Trp
260         265         270
Ala Leu Asn Arg Gly Tyr Ser Glu Lys Thr
275         280

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<210> 7782

<211> 161

<212> PRT

<213> *Enterobacter cloacae*

<400> 7782

```

Ala Met Ser Thr Lys Ala Ile Tyr Pro Gly Thr Phe Asp Pro Ile Thr
1           5           10           15
Asn Gly His Ile Asp Ile Ile Thr Arg Ala Ala Cys Met Phe Asp Lys
20          25          30
Val Ile Met Thr Ile Ser Ala Ser Pro Ser Lys Lys Pro Met Phe Asp
35          40          45
Leu Asn Glu Arg Val Gln Leu Ala Thr Asp Ala Ile Ser His Leu Ser
50          55          60
Asn Val Glu Val Val Gly Phe Ser Asp Leu Met Ala Asn Phe Ala Arg
65          70          75          80
Asp Arg His Ala Asn Ile Leu Ile Arg Gly Leu Arg Ala Val Ala Asp
85          90          95
Phe Glu Tyr Glu Met Gln Leu Ala His Met Asn Arg His Leu Met Pro
100         105         110
Glu Leu Glu Ser Val Phe Leu Met Pro Ser Lys Glu Trp Ser Phe Ile
115         120         125
Ser Ser Ser Leu Val Lys Glu Val Ala Arg His His Gly Asp Val Thr
130         135         140
His Phe Leu Pro Val Asn Val His Gln Ala Leu Met Glu Lys Leu Lys

```

145

150

155

160

<210> 7783

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 7783

Ser Val Asn Arg Gln Arg Gly Met Ser Ser Leu Ala Leu Val Leu Leu
 1 5 10 15
 Leu Leu Val Leu Gly Thr Leu Ile Leu Thr Gly Leu Asn Gln Gln Leu
 20 25 30
 Gln Thr Phe Ser Thr Leu Val Ser Gly Glu Ser Leu Ser Val Arg Gln
 35 40 45
 Gln Ala Ala Val Gln Ser Ala Leu Glu Trp Gly Arg Val Gln Glu Trp
 50 55 60
 Ala Leu Gln Pro Glu Val Gln Cys Lys Gln Thr Gln Arg Leu Arg Val
 65 70 75 80
 Cys Val Arg Leu Phe Gly Glu Arg Val Leu Leu Ile Ala Gly Asn Asp
 85 90 95
 Asp Leu Leu Leu Trp Gln Gly Gly Asp Ile Ala Glu Gly Gln Ile Arg
 100 105 110
 Phe Ser Ala His Gly Trp Ser Asp Phe Cys Pro Leu Lys Glu Ser Thr
 115 120 125
 Leu Cys Gln Leu Pro
 130

<210> 7784

<211> 969

<212> PRT

<213> Enterobacter cloacae

<400> 7784

Cys Ser Arg Asp Lys Glu Val Val Met Pro Gly Ser Thr Leu Phe Lys
 1 5 10 15
 Ala Phe Val Leu Phe Ile Ala Leu Trp Ala Pro Val Thr Gln Ala Asp
 20 25 30
 Ser Gly Trp Gln Pro Val Lys Glu Thr Ile Arg Lys Ser Asp Lys Asp
 35 40 45
 Thr Arg Gln Tyr Gln Ala Ile Arg Leu Asp Asn Gly Met Thr Val Leu
 50 55 60
 Leu Val Ser Asp Pro Gln Ala Val Lys Ser Leu Ser Ala Leu Val Val
 65 70 75 80
 Pro Val Gly Ser Leu Glu Asp Pro Asp Ala His Pro Gly Leu Ala His
 85 90 95
 Tyr Leu Glu His Met Thr Leu Met Gly Ser Lys Lys Tyr Pro Gln Pro
 100 105 110
 Asp Ser Leu Ser Glu Phe Leu Lys Met His Gly Gly Ser His Asn Ala
 115 120 125
 Ser Thr Ala Pro Tyr Arg Thr Ala Phe Tyr Leu Glu Val Glu Asn Asp
 130 135 140
 Ala Leu Asp Gly Ala Val Asp Arg Leu Ala Asp Ala Ile Ala Ala Pro
 145 150 155 160
 Leu Leu Asp Lys Lys Tyr Ala Asp Arg Glu Arg Asn Ala Val Asn Ala
 165 170 175
 Glu Leu Thr Met Ala Arg Thr Arg Asp Gly Met Arg Met Ala Gln Val
 180 185 190
 Ser Ala Glu Thr Ile Asn Pro Ala His Pro Gly Ser Arg Phe Ser Gly
 195 200 205

Gly Asn Leu Glu Thr Leu Ser Asp Lys Pro Gly Ser Pro Val Leu Asp
 210 215 220
 Ala Leu His Ala Phe Arg Glu Lys Tyr Tyr Ser Ala Asn Leu Met Lys
 225 230 235 240
 Ala Val Ile Tyr Ser Asn Lys Pro Leu Pro Thr Leu Ala Asn Met Ala
 245 250 255
 Ala Gln Thr Tyr Gly Arg Val Pro Asn Lys Asn Ile Asp Leu Pro Gln
 260 265 270
 Ile Asn Val Pro Val Val Thr Asp Ala Gln Lys Gly Ile Val Ile His
 275 280 285
 Tyr Val Pro Ala Leu Pro Arg Lys Val Leu Arg Val Glu Phe Arg Ile
 290 295 300
 Asp Asn Asn Thr Ala Gln Phe Arg Ser Lys Thr Asp Glu Leu Val Thr
 305 310 315 320
 Tyr Leu Ile Gly Asn Arg Ser Pro Gly Thr Leu Ser Asp Trp Leu Gln
 325 330 335
 Lys Gln Gly Leu Val Glu Gly Ile Arg Ala Asp Ser Asp Pro Val Val
 340 345 350
 Asn Gly Asn Ser Gly Val Leu Ala Ile Ser Ala Thr Leu Thr Asp Lys
 355 360 365
 Gly Leu Ala His Arg Asn Asp Val Val Ala Ala Ile Phe Ser Tyr Leu
 370 375 380
 Ser Leu Leu Arg Asp Lys Gly Val Asp Lys Arg Tyr Phe Asp Glu Leu
 385 390 395 400
 Ala His Val Leu Asp Leu Asp Phe Arg Tyr Pro Ser Ile Thr Arg Asp
 405 410 415
 Met Asp Tyr Val Glu Trp Leu Ala Asp Thr Met Ile Arg Val Pro Val
 420 425 430
 Glu His Thr Leu Asp Ala Val Asn Ile Ala Asp Gln Phe Asp Ala Gly
 435 440 445
 Ala Leu Lys Ala Arg Leu Ala Met Met Thr Pro Gln Asn Ala Arg Val
 450 455 460
 Trp Tyr Ile Ser Pro Asn Glu Pro His Asn Lys Met Ala Tyr Phe Val
 465 470 475 480
 Asp Ala Pro Tyr Gln Val Glu Lys Ile Ser Glu Gln Thr Phe Ala Gly
 485 490 495
 Trp Gln Lys Lys Ala Gly Glu Ile Ala Leu Lys Leu Pro Glu Leu Asn
 500 505 510
 Pro Tyr Ile Pro Asp Asp Phe Ser Leu Ile Lys Pro Ala Lys Ala Tyr
 515 520 525
 Pro His Pro Glu Leu Ile Val Asp Glu Pro Thr Leu Arg Val Val Tyr
 530 535 540
 Thr Pro Ser Arg Tyr Phe Ala Asp Glu Pro Lys Ala Asp Val Ser Val
 545 550 555 560
 Val Leu Arg Asn Pro Lys Ala Met Asp Ser Ala Arg Asn Gln Val Leu
 565 570 575
 Phe Ala Leu Asn Asp Tyr Leu Ala Gly Ile Ala Leu Asp Gln Leu Ser
 580 585 590
 Asn Gln Ala Ala Val Gly Gly Ile Ser Phe Ser Thr Asn Ala Asn Asn
 595 600 605
 Gly Leu Met Val Asn Ala Asn Gly Tyr Thr Gln Arg Leu Pro Gln Leu
 610 615 620
 Phe Gln Ala Leu Leu Asp Gly Tyr Phe Ser Tyr Thr Pro Thr Glu Glu
 625 630 635 640
 Gln Leu Glu Gln Ala Lys Ser Trp Tyr Ala Gln Met Met Asp Ser Ala
 645 650 655
 Glu Lys Gly Lys Ala Tyr Asp Gln Ala Ile Met Pro Ala Gln Met Leu
 660 665 670
 Ser Gln Ile Pro Tyr Phe Gln Arg Glu Asp Arg Arg Ala Ile Leu Pro
 675 680 685
 Ser Val Thr Leu Lys Glu Val Leu Ala Tyr Arg Asp Ala Leu Lys Thr

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        690                695                700
Asn Thr Arg Pro Glu Phe Leu Val Val Gly Asn Met Ser Glu Asp Gln
705                710                715                720
Ala Lys Thr Leu Ala Gln Asn Val Arg Ala Gln Leu Gly Ser Lys Gly
        725                730                735
Asp Glu Trp Cys Arg Asn Gln Asp Val Leu Val Glu Lys Lys Gln Asn
        740                745                750
Val Ile Phe Glu Lys Ala Gly Ser Ser Thr Asp Ser Ala Leu Ala Ala
        755                760                765
Val Phe Val Pro Val Gly Tyr Asp Glu Phe Thr Ser Ser Ala Gln Ser
        770                775                780
Ala Val Leu Gly Gln Ile Ile Gln Pro Trp Phe Tyr Asn Gln Leu Arg
785                790                795                800
Thr Glu Glu Gln Leu Gly Tyr Ala Val Phe Ala Phe Ser Met Asn Val
        805                810                815
Gly Arg Gln Trp Gly Leu Gly Phe Leu Leu Gln Ser Ser Asp Lys Gln
        820                825                830
Pro Ala Tyr Leu Trp Gln Arg Tyr Gln Ala Phe Phe Pro Gln Ala Glu
        835                840                845
Ala Lys Leu Arg Ala Met Lys Pro Glu Glu Phe Ala Gln Ile Gln Gln
        850                855                860
Ala Val Ile Ala Gln Val Met Gln Pro Pro Gln Thr Leu Gly Glu Glu
865                870                875                880
Ala Ser Gln Leu Ser Lys Asp Phe Asp Arg Gly Asn Met Lys Phe Asp
        885                890                895
Ser Arg Asp Lys Ile Val Ala Glu Ile Lys Gln Leu Thr Pro Gln Lys
        900                905                910
Val Ala Asp Phe Phe His Gln Ala Val Val Lys Pro Gln Gly Met Ala
        915                920                925
Ile Leu Ser Gln Val Ser Gly Ser Gln Asn Gly Lys Thr Asp Tyr Val
        930                935                940
Lys Ser Lys Glu Trp Thr Val Trp Lys Ser Val Ser Ala Leu Gln Gln
945                950                955                960
Thr Met Pro Trp Ser Lys Lys Glu
        965

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<210> 7785

<211> 446

<212> PRT

<213> *Enterobacter cloacae*

<400> 7785

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Met Thr Val Tyr Ala Ser Phe Val Lys Val Phe Gly Gln Phe Gly Arg
1                5                10                15
Phe Val His Gln Ser Asp Phe Leu Leu Gly Arg Ser Met Ser Gly Ser
        20                25                30
Asn Ser Ala Ile Ser Arg Arg Arg Leu Leu Lys Gly Ala Gly Ala Met
        35                40                45
Trp Leu Leu Ser Val Ser Gln Val Gly Leu Ala Ala Thr Ser Gln Val
        50                55                60
Val Ala Val Arg Val Trp Pro Ser Ser Thr Tyr Thr Arg Val Thr Val
65                70                75                80
Glu Ser Asn Arg Val Leu Lys Tyr Lys Gln Phe Ala Leu Ser Asn Pro
        85                90                95
Glu Arg Val Val Val Asp Leu Glu Gly Val Asn Leu Asn Ser Val Leu
        100                105                110
Lys Gly Met Ala Ala Gln Ile Arg Gly Asp Asp Pro Phe Ile Lys Ser
        115                120                125
Ala Arg Val Gly Gln Phe Asp Pro Gln Thr Val Arg Met Val Phe Glu
130                135                140
Leu Lys Gln Asn Val Lys Pro Gln Leu Phe Ala Leu Ala Pro Val Ala

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145          150          155          160
Ala Phe Lys Glu Arg Leu Val Met Asp Leu Tyr Pro Ala Asn Ala Thr
      165          170          175
Asp Ile Gln Asp Pro Leu Leu Ala Leu Leu Glu Asp Tyr Asn Lys Gly
      180          185          190
Asp Leu Asp Ser Gln Val Pro Pro Ala Gln Ser Gly Pro Lys Pro Gly
      195          200          205
Lys Ala Gly Arg Asp Arg Pro Ile Val Ile Met Leu Asp Pro Gly His
      210          215          220
Gly Gly Glu Asp Ser Gly Ala Val Gly Lys Tyr Arg Thr Arg Glu Lys
225          230          235          240
Asp Val Val Leu Gln Ile Ala Arg Arg Leu Lys Ala Leu Ile Asp Lys
      245          250          255
Glu Gly Asn Met Arg Ala Tyr Met Thr Arg Asn Glu Asp Val Phe Ile
      260          265          270
Pro Leu Lys Val Arg Val Ala Lys Ala Gln Lys Gln Arg Ala Asp Leu
      275          280          285
Phe Val Ser Ile His Ala Asp Ala Phe Thr Ser Arg Gln Pro Ser Gly
      290          295          300
Ser Ser Val Phe Ala Leu Ser Thr Lys Gly Ala Thr Ser Thr Ala Ala
305          310          315          320
Arg Tyr Leu Ala Asp Thr Gln Asn Ala Ser Asp Leu Ile Gly Gly Val
      325          330          335
Ser Lys Ser Gly Asp Arg Tyr Val Asp His Thr Met Phe Asp Met Val
      340          345          350
Gln Ser Leu Thr Ile Thr Asp Ser Leu Lys Phe Gly Lys Ala Val Leu
      355          360          365
Gly Lys Leu Gly Arg Val Asn Lys Leu His Lys Asn Ser Val Glu Gln
      370          375          380
Ala Gly Phe Ala Val Leu Lys Ala Pro Asp Ile Pro Ser Ile Leu Val
385          390          395          400
Glu Thr Ala Phe Ile Ser Asn Val Glu Glu Glu Arg Lys Leu Lys Thr
      405          410          415
Ala Lys Phe Gln Gln Glu Val Ala Glu Ser Ile Leu Ala Gly Ile Arg
      420          425          430
Ala Tyr Phe Ser Asp Gly Glu Thr Leu Ala Arg Arg Gly
      435          440          445

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<210> 7786

<211> 293

<212> PRT

<213> *Enterobacter cloacae*

<400> 7786

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Gln Met Asn Ser Gly Tyr Leu His Phe Pro Glu Phe Asp Pro Val Ile
1          5          10          15
Phe Ser Ile Gly Pro Val Ala Leu His Trp Tyr Gly Leu Met Tyr Leu
      20          25          30
Val Gly Phe Val Phe Ala Met Trp Leu Ala Gly Arg Arg Ala Ser Arg
      35          40          45
Pro Gly Ser Gly Trp Thr Lys Asn Glu Val Glu Asn Leu Leu Tyr Ala
      50          55          60
Gly Phe Leu Gly Val Phe Leu Gly Gly Arg Ile Gly Tyr Val Leu Phe
      65          70          75          80
Tyr Asn Phe Pro Val Phe Leu Asn Asp Pro Leu Tyr Leu Phe Arg Val
      85          90          95
Trp Asp Gly Gly Met Ser Phe His Gly Gly Leu Ile Gly Val Ile Leu
      100          105          110
Val Met Val Ile Phe Ala Arg Arg Thr Lys Arg Asn Phe Phe Gln Val
      115          120          125
Ala Asp Phe Ile Ala Pro Leu Ile Pro Phe Gly Leu Gly Ala Gly Arg

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130 135 140
 Leu Gly Asn Phe Ile Asn Gly Glu Leu Trp Gly Arg Val Asp Pro Ser
 145 150 155 160
 Val Pro Phe Thr Met Leu Phe Pro Gly Ser Arg Ala Glu Asp Ile Ala
 165 170 175
 Leu Leu Pro Ser His Pro Glu Trp Gln Ser Ile Phe Asp Thr Tyr Gly
 180 185 190
 Val Leu Pro Arg His Met Ser Gln Leu Tyr Glu Leu Ala Leu Glu Gly
 195 200 205
 Val Val Leu Phe Ile Ile Leu Asn Leu Tyr Ile Arg Lys Pro Arg Pro
 210 215 220
 Met Gly Ala Val Ser Gly Leu Phe Leu Ile Gly Tyr Gly Ala Phe Arg
 225 230 235 240
 Ile Ile Val Glu Phe Phe Arg Gln Pro Asp Ala Gln Phe Thr Gly Glu
 245 250 255
 Trp Val Gln Tyr Ile Ser Met Gly Gln Ile Leu Ser Ile Pro Met Ile
 260 265 270
 Val Ala Gly Ala Ile Met Met Ile Trp Ala Tyr Arg Arg Pro Gln
 275 280 285
 Gln Gln Leu Ser
 290

<210> 7787

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 7787

Gly Ile Met Lys Gln Tyr Leu Glu Leu Met Lys Lys Val Leu Asp Glu
 1 5 10 15
 Gly Thr Pro Lys Asn Asp Arg Thr Gly Thr Gly Thr Leu Ser Ile Phe
 20 25 30
 Gly His Gln Met Arg Phe Asn Leu Gln Glu Gly Phe Pro Leu Val Thr
 35 40 45
 Thr Lys Arg Cys His Leu Arg Ser Ile Ile His Glu Leu Leu Trp Phe
 50 55 60
 Leu Gln Gly Asp Thr Asn Val Ala Tyr Leu His Glu Asn Asn Val Ser
 65 70 75 80
 Ile Trp Asp Glu Trp Ala Asp Glu Asn Gly Asp Leu Gly Pro Val Tyr
 85 90 95
 Gly Lys Gln Trp Arg Ala Trp Pro Thr Pro Asp Gly Arg His Ile Asp
 100 105 110
 Gln Ile Thr Thr Val Ile Asn Gln Leu Lys Asn Asp Pro Asp Ser Arg
 115 120 125
 Arg Ile Ile Val Ser Ala Trp Asn Val Gly Glu Leu Asp Lys Met Ala
 130 135 140
 Leu Ala Pro Cys His Ala Phe Phe Gln Phe Tyr Val Ala Asp Gly Lys
 145 150 155 160
 Leu Ser Cys Gln Leu Tyr Gln Arg Ser Cys Asp Val Phe Leu Gly Leu
 165 170 175
 Pro Phe Asn Ile Ala Ser Tyr Ala Leu Leu Val His Met Met Ala Gln
 180 185 190
 Gln Cys Asp Leu Glu Val Gly Asp Phe Val Trp Thr Gly Gly Asp Thr
 195 200 205
 His Leu Tyr Ser Asn His Met Glu Gln Thr His Leu Gln Leu Thr Arg
 210 215 220
 Glu Pro Arg Ala Leu Pro Lys Leu Val Ile Lys Arg Lys Pro Asp Ser
 225 230 235 240
 Ile Phe Asp Tyr Arg Phe Asp Asp Phe Glu Ile Glu Gly Tyr Asp Pro
 245 250 255
 His Pro Gly Ile Lys Ala Pro Val Ala Ile

260

265

<210> 7788
 <211> 193
 <212> PRT
 <213> Enterobacter cloacae

<400> 7788
 Cys Arg Arg Arg Arg Cys Met Pro Val Asn Arg Lys Gly Phe Ser Leu
 1 5 10 15
 Leu Glu Val Leu Ile Ala Met Thr Ile Ser Ser Ile Leu Leu Leu Ser
 20 25 30
 Thr Ser Arg Phe Leu Pro Gly Leu Gln Arg Gly Val Leu Leu Gln Ser
 35 40 45
 Gly Gln Gln Glu Leu Glu Asp Glu Val Trp Gln Arg Leu Phe Ala Val
 50 55 60
 Gly Lys Gln Phe Gln Arg Ala Gly Tyr Cys Ala Gly His Cys Gln Gly
 65 70 75 80
 Gln Gly Met Ile Ile Gly Arg Gln Gly Arg Cys Ala Ile Val Gln Trp
 85 90 95
 Asp Ala Asn Ser Asn Gly Gln Trp Asp Ser Thr Ala Ser Glu Asn Asp
 100 105 110
 Ser Thr Gly Phe Arg Leu Glu Ser Gly Ser Leu Glu Thr Leu Arg Gly
 115 120 125
 Ala Thr Ser Cys Asp Gly Lys Gly Trp Asp Lys Leu Thr Asp Pro Asp
 130 135 140
 Arg Val Leu Ile Glu Gln Phe Met Val Thr Lys Thr Asp Arg Ala Gly
 145 150 155 160
 Phe Ala Pro Val Ile Ser Ile Glu Leu Arg Ala Arg Arg Lys Gly Glu
 165 170 175
 Leu Thr Ala Pro Phe Ser Ala Arg His Thr Val Thr Gly Phe Asn Leu
 180 185 190

<210> 7789
 <211> 617
 <212> PRT
 <213> Enterobacter cloacae

<400> 7789
 Pro Val Cys Ser Lys His Gly Gly Asp Gly Met Thr Met Gln Asp Leu
 1 5 10 15
 Leu Leu Asp Ala Val Glu Gln Arg Val Leu Arg Gln Leu Asp Val Gln
 20 25 30
 Phe Ala Met Met Ile Ala Ala Asp Gln Pro Ala Val Met Leu Ala Ala
 35 40 45
 Ala Leu Leu Ser Lys Asp Ala Gly Glu Gly His Val Cys Leu Pro Leu
 50 55 60
 Ser Arg Leu Val Val Asp Glu Lys Met Pro Pro Val Leu Gln Ser Cys
 65 70 75 80
 Phe Ala Leu Leu Gly Asp Lys Val Asp Trp Gln Lys Ile Leu Arg Glu
 85 90 95
 Ser Ser Ala Val Gly Pro Gly Asp Asn Gln Ala Pro Leu Ile Leu Thr
 100 105 110
 Gly Glu Arg Leu Tyr Leu Asn Arg Leu Trp Arg Asn Glu Leu Thr Val
 115 120 125
 Ala Arg Phe Phe Ser Glu Thr Asn Ala Pro Leu Pro Cys Asp Glu Ala
 130 135 140
 Gln Leu Arg Gln Thr Leu Asp Arg Leu Phe Asp Ser Gly Glu Asp Thr
 145 150 155 160

Asp Trp Gln Lys Val Ala Ala Ala Val Ala Leu Thr Arg Arg Ile Ser
 165 170 175
 Val Ile Ser Gly Gly Pro Gly Thr Gly Lys Thr Thr Thr Val Ala Lys
 180 185 190
 Leu Leu Ala Ala Leu Ile Gln Leu Ser Gly Glu Gln Arg Cys Arg Ile
 195 200 205
 Arg Leu Ala Ala Pro Thr Gly Lys Ala Ala Ala Arg Leu Thr Glu Ser
 210 215 220
 Leu Gly Gly Ala Met Gln Gln Leu Pro Leu Thr Gln Glu Gln Leu Ala
 225 230 235 240
 Leu Phe Pro Gly Glu Ala Ser Thr Leu His Arg Leu Leu Gly Ala Gln
 245 250 255
 Pro Gly Ser Gln Arg Leu Arg Tyr His Ala Gly Asn Pro Leu His Leu
 260 265 270
 Asp Val Leu Val Val Asp Glu Ala Ser Met Ile Asp Leu Thr Met Met
 275 280 285
 Ser Arg Leu Ile Asp Ala Leu Pro Pro His Ala Arg Val Val Phe Leu
 290 295 300
 Gly Asp Arg Asp Gln Leu Ala Ser Val Glu Ala Gly Ala Val Leu Gly
 305 310 315 320
 Asp Ile Cys Thr Tyr Ala Ser Tyr Gly Tyr Thr Ala Ala Arg Ala Gln
 325 330 335
 Glu Leu Ala Arg Leu Thr Gly Cys Ser Leu Glu Pro Asp His Thr Pro
 340 345 350
 Ile Ala Gly Ala Leu Arg Asp Ser Leu Cys Leu Leu Gln Lys Ser Tyr
 355 360 365
 Arg Phe Gly Ser Asp Ser Gly Ile Gly Gln Leu Ala Ala Val Asn
 370 375 380
 Arg Gly Asp Arg His Ala Thr Arg Thr Val Phe Asp Gly Thr Phe Thr
 385 390 395 400
 Asp Ile Glu Lys Lys Ser Leu Gln Ser Gly Glu Glu Tyr Gln Ala Met
 405 410 415
 Leu Glu Glu Ala Leu Gln Gly Tyr Gln His Phe Leu Ser Cys Val Gln
 420 425 430
 Gln Cys Ser Gln Pro Gly Gln Val Ile Ala Ala Phe Gly Glu Tyr Gln
 435 440 445
 Leu Leu Cys Ala Leu Arg Glu Gly Pro Phe Gly Val Thr Gly Leu Asn
 450 455 460
 Asp Arg Leu Glu Gln Leu Leu Val Gln Lys Arg Lys Ile Asn Arg Gln
 465 470 475 480
 Leu His Ser Arg Trp Tyr Glu Gly Arg Pro Val Met Ile Ser Arg Asn
 485 490 495
 Asp Ser Ala Leu Gly Leu Phe Asn Gly Asp Ile Gly Ile Ala Leu Asp
 500 505 510
 Arg Gly Asn Gly Leu Arg Val Trp Phe Gln Leu Pro Asp Gly Ser Val
 515 520 525
 Lys Ser Val Gln Pro Ser Arg Leu Pro Glu His Glu Thr Ala Trp Ala
 530 535 540
 Met Thr Val His Lys Ser Gln Gly Ser Glu Phe Asn His Ala Ala Leu
 545 550 555 560
 Ile Leu Pro Thr Gln Leu Ser Pro Val Val Thr Arg Glu Leu Val Tyr
 565 570 575
 Thr Ala Ile Thr Arg Ala Arg Gln Arg Leu Ser Leu Tyr Ala Asp Glu
 580 585 590
 Arg Val Leu Ser Gln Ala Ile Ala Thr Arg Thr Glu Arg Arg Ser Gly
 595 600 605
 Leu Ser Ala Ile Phe Glu Ser Val
 610 615

<210> 7790

<211> 120

<212> PRT

<213> *Enterobacter cloacae*

<400> 7790

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Arg Gly Ser Phe Arg Pro Arg Gly Glu Asp Leu Ala Ser Thr Arg Asn
1      5      10      15
Trp Leu Arg Tyr Lys Leu Pro Lys Arg Leu Val Arg Trp Asp Thr Lys
      20      25      30
Pro Val Cys Ile Gly Gln Lys Gln Lys Trp Phe Leu Leu Gln Leu Val
      35      40      45
Gly Asn Asp Ser Asp Ile Asn Met Gln Thr Ser Ser Thr Pro Glu Phe
      50      55      60
Asp Gly Trp Arg Trp Val Ser Tyr Trp Tyr Pro Val Arg Gln Val Val
      65      70      75
Ser Phe Lys Arg Asp Val Tyr Arg Arg Val Met Lys Glu Phe Ala Ser
      85      90      95
Val Val Met Gln Leu Gln Glu Thr Pro Lys Pro Gln Ser Ala Pro
      100      105      110
Ala Trp Arg Arg Lys Arg Gly
      115      120

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<210> 7791

<211> 753

<212> PRT

<213> *Enterobacter cloacae*

<400> 7791

```

Ala Thr Gln Ile Met Leu Thr Arg Leu Arg Glu Ile Val Glu Lys Val
1      5      10      15
Ala Ser Ala Pro Arg Leu Asn Glu Ala Leu Asn Ile Leu Val Thr Asp
      20      25      30
Ile Cys Leu Ala Met Glu Thr Glu Val Cys Ser Val Tyr Leu Ala Asp
      35      40      45
His Asp Arg Arg Cys Tyr Tyr Leu Met Ala Thr Arg Gly Leu Lys Lys
      50      55      60
Pro Arg Gly Arg Thr Val Thr Leu Ala Phe Asp Glu Gly Ile Val Gly
      65      70      75
Leu Val Gly Arg Leu Ala Glu Pro Ile Asn Leu Ala Asp Ala Gln Lys
      85      90      95
His Pro Ser Phe Lys Tyr Ile Pro Ser Val Lys Glu Glu Arg Phe Arg
      100      105      110
Ala Phe Leu Gly Val Pro Ile Ile Gln Arg Arg Gln Leu Gly Val
      115      120      125
Leu Val Val Gln Gln Arg Glu Leu Arg Gln Tyr Asp Glu Ser Glu Glu
      130      135      140
Ser Phe Leu Val Thr Leu Ala Thr Gln Met Ala Ala Ile Leu Ser Gln
      145      150      155
Ser Gln Leu Ala Ala Leu Phe Gly Gln Tyr Arg His Thr Arg Ile Arg
      165      170      175
Ala Leu Pro Ala Ser Pro Gly Val Ala Ile Ala Glu Gly Trp Met Asp
      180      185      190
Ala Thr Leu Pro Leu Met Glu Gln Val Tyr Glu Ala Ser Thr Leu Asp
      195      200      205
Glu Ala Leu Glu Arg Glu Arg Leu Thr Ala Ala Leu Glu Glu Ala Ala
      210      215      220
Asn Glu Phe Arg Arg Tyr Ser Lys Arg Phe Ala Ala Gly Ala Gln Lys
      225      230      235
Glu Thr Ala Ala Ile Phe Asp Leu Tyr Ser His Leu Leu Ser Asp Ala
      245      250      255
Arg Leu Arg Arg Glu Leu Phe Ala Glu Val Asp Lys Gly Ser Val Ala
      260      265      270

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Glu Trp Ala Val Lys Lys Val Ile Glu Lys Phe Ala Glu Gln Phe Ala
 275 280 285
 Val Leu Thr Asp Gly Tyr Leu Lys Glu Arg Ala Gly Asp Leu Arg Ala
 290 295 300
 Leu Gly Gln Arg Leu Leu Phe His Leu Asp Asp Thr Ile Gln Gly Ala
 305 310 315 320
 Asn Ala Trp Pro Asn Arg Phe Val Leu Val Ala Asp Glu Leu Ser Ala
 325 330 335
 Thr Thr Leu Ala Glu Leu Pro Gln Asp Arg Leu Ala Gly Val Val Val
 340 345 350
 Arg Asp Gly Ala Ala Asn Ser His Ala Ala Ile Met Val Arg Ala Leu
 355 360 365
 Gly Ile Pro Thr Val Met Gly Ala Asp Ile Gln Pro Ser Val Leu His
 370 375 380
 Arg Arg Thr Leu Val Val Asp Gly Tyr Arg Gly Glu Leu Leu Val Asp
 385 390 395 400
 Pro Glu Pro Val Leu Leu Gln Glu Tyr Gln Arg Leu Ile Ser Glu Glu
 405 410 415
 Asn Glu Leu Ser Lys Leu Ala Glu Asp Asp Val Asn Leu Pro Ala Gln
 420 425 430
 Leu Lys Ser Gly Glu Arg Val Lys Val Met Leu Asn Ala Gly Leu Ser
 435 440 445
 Pro Glu His Glu Glu Lys Leu Gly Ser Arg Ile Asp Gly Ile Gly Leu
 450 455 460
 Tyr Arg Thr Glu Ile Pro Phe Met Leu Gln Ser Gly Phe Pro Ser Glu
 465 470 475 480
 Glu Glu Gln Val Ala Gln Tyr Gln Gly Met Leu Gln Met Phe Asn Asp
 485 490 495
 Lys Pro Val Thr Leu Arg Thr Leu Asp Val Gly Ala Asp Lys Gln Leu
 500 505 510
 Pro Tyr Met Pro Ile Ser Glu Glu Asn Pro Cys Leu Gly Trp Arg Gly
 515 520 525
 Ile Arg Ile Thr Leu Asp Gln Pro Glu Ile Phe Leu Ile Gln Val Arg
 530 535 540
 Ala Met Leu Arg Ala Asn Ala Ala Thr Gly Asn Leu Ser Ile Leu Leu
 545 550 555 560
 Pro Met Val Thr Ser Ile Asp Glu Ile Asp Glu Ala Arg Arg Leu Ile
 565 570 575
 Glu Arg Ala Gly Arg Glu Val Glu Glu Met Ile Gly Tyr Ala Ile Pro
 580 585 590
 Lys Pro Arg Ile Gly Val Met Leu Glu Val Pro Ser Met Val Phe Met
 595 600 605
 Leu Pro Gln Leu Ala Thr Arg Val Asp Phe Ile Ser Val Gly Thr Asn
 610 615 620
 Asp Leu Thr Gln Tyr Ile Leu Ala Val Asp Arg Asn Asn Thr Arg Val
 625 630 635 640
 Ala Ser Ile Tyr Asp Ser Leu His Pro Ala Met Leu Arg Ala Leu Ala
 645 650 655
 Met Ile Ala Arg Glu Ala Glu Gln His Asn Ile Asp Leu Arg Leu Cys
 660 665 670
 Gly Glu Met Ala Gly Asp Pro Met Cys Val Ala Ile Leu Ile Gly Leu
 675 680 685
 Gly Phe Arg His Leu Ser Met Asn Gly Arg Ser Val Ala Arg Val Lys
 690 695 700
 Tyr Leu Leu Arg His Ile Glu Gln Asp Glu Ala Arg Glu Leu Ala Ala
 705 710 715 720
 Arg Ser Leu Glu Ala Gln Leu Ala Ala Glu Val Arg His Gln Val Ala
 725 730 735
 Ala Phe Met Glu Arg Arg Gly Met Gly Gly Leu Ile Arg Gly Gly Arg
 740 745 750

<210> 7792
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 7792
 Ser Ser Gly Leu Thr Leu Ala Pro Phe Leu Leu Phe Leu His Thr Pro
 1 5 10 15
 Ala Met Lys Asn Glu Gln Gly Phe Thr Leu Ile Glu Thr Leu Ile Ala
 20 25 30
 Val Ser Leu Ala Val Ile Leu Ser Ala Thr Gly Leu Tyr Gly Trp Asp
 35 40 45
 Ser Trp Gln Gln Arg Gln Arg Leu Trp Gln Thr Ala Cys Gln Val Arg
 50 55 60
 Asp Tyr Leu Val Phe Leu Arg Asn Asp Ala Asn Arg His Asn Ser Glu
 65 70 75 80
 His Arg Ile Ala Leu Tyr Asn Asp Gly Glu Lys Asn Cys Leu Thr Ser
 85 90 95
 Ser Ala Val Thr Gly Cys Asp Ser Gly Gly Pro Phe Val Met Lys Pro
 100 105 110
 Met Trp Pro Gly Val Thr Ile Ser Asp Ile Thr Pro Ala Leu Gly Phe
 115 120 125
 Tyr Gly Leu Arg Asp Thr Ala Trp Ala Gly His Ile Arg Val Gln Ser
 130 135 140
 Arg Ala Gly Gly Trp Trp Val Ile Val Ser Asn Gly Gly Arg Ile Arg
 145 150 155 160
 Leu Cys Asn Ala Ala Gly Glu Gly Ala Cys Gln
 165 170

<210> 7793
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 7793
 Gly Lys Tyr Ala Met Ser Val Trp Leu Ser Arg Gln Lys Gly Phe Ser
 1 5 10 15
 Met Val Glu Val Leu Leu Ala Met Met Leu Leu Val Val Val Thr
 20 25 30
 Ala Leu Ser Gly Tyr His Arg Ala Leu Ala Ala Arg Tyr Ala Ala Leu
 35 40 45
 Ser Gln Tyr Arg Gln Leu Trp His His Ala Trp Asn Gln Ser Gln Ile
 50 55 60
 Ser Thr Leu Thr Leu Pro Pro Gly Trp Gln Val Ser Arg Gly Gln Thr
 65 70 75 80
 Thr Gln Ser Gly Cys Val Ser Ile Thr Val Thr Leu Ile Ser Pro Met
 85 90 95
 Gly Arg Gln Gly Ala Leu Thr Arg Leu His Cys Pro Val Ser Arg
 100 105 110

<210> 7794
 <211> 1129
 <212> PRT
 <213> Enterobacter cloacae

<400> 7794
 Ser Gly Ala Phe Met Leu Arg Val Tyr His Ser Asn Arg Leu Asp Val
 1 5 10 15
 Leu Glu Ala Leu Met Glu Tyr Ile Val Glu Gln Glu Arg Leu Asp Asp

		20				25				30			
Pro	Phe	Glu	Pro	Glu	Met	Val	Leu	Val	Gln	Ser	Thr	Gly	Met
		35					40					45	Ala
Trp	Leu	Gln	Met	Ser	Leu	Ser	Gln	Lys	Phe	Gly	Ile	Ala	Ala
		50					55				60	Asn	Ile
Asp	Phe	Pro	Leu	Pro	Ala	Ser	Phe	Ile	Trp	Glu	Met	Phe	Val
		65			70				75			80	Arg
Leu	Pro	Asp	Ile	Pro	Glu	Gln	Ser	Ala	Phe	Asn	Lys	Gln	Ser
				85					90			95	Met
Trp	Lys	Leu	Met	Thr	Leu	Leu	Pro	Asp	Met	Leu	Ala	Arg	Asp
			100					105				110	Glu
Ala	Met	Leu	Arg	His	Tyr	Leu	Asn	Asp	Asp	Thr	Asp	Lys	Arg
		115					120					125	Lys
Phe	Gln	Leu	Ala	Ser	Arg	Thr	Ala	Asp	Leu	Tyr	Asp	Gln	Tyr
		130					135				140		Leu
Tyr	Arg	Ala	Asp	Trp	Leu	Ile	Arg	Trp	Glu	Ala	Gly	Glu	Leu
		145			150				155			160	Val
Gly	Leu	Pro	Glu	Ala	Gln	Ile	Trp	Gln	Ala	Pro	Leu	Trp	Lys
			165					170				175	Ala
Val	Glu	His	Thr	Gly	Lys	Leu	Gly	Gln	Pro	Lys	Trp	His	Arg
		180					185					190	Ala
Leu	Tyr	Asp	Arg	Phe	Ile	Ser	Ile	Leu	Glu	Asn	Ser	Ala	Glu
		195					200					205	Arg
Ala	Arg	Leu	Pro	Ser	Arg	Val	Phe	Ile	Cys	Gly	Ile	Ser	Ala
		210					215				220		Leu
Pro	Val	Tyr	Leu	Asn	Ala	Leu	Lys	Ala	Leu	Gly	Lys	His	Thr
		225			230					235			Asp
His	Ile	Leu	Phe	Thr	Asn	Pro	Cys	Arg	His	Tyr	Trp	Gly	Asp
			245					250				255	Ile
Asp	Pro	Arg	Trp	Leu	Ser	Arg	Leu	Val	Thr	Arg	Gln	Arg	Lys
		260						265				270	Arg
Phe	Glu	Glu	Arg	Ala	Val	Pro	Leu	Phe	Lys	Asp	Ser	Glu	Asn
		275					280					285	Ala
Gln	Leu	Phe	Asp	Glu	Glu	Gly	Ile	Gln	Asn	Leu	Pro	Asn	Pro
		290					295				300		Leu
Ala	Ser	Trp	Gly	Lys	Leu	Gly	Arg	Asp	Tyr	Ile	Tyr	Leu	Leu
		305			310					315		320	Ser
Ile	Thr	Ser	Ser	Gly	Glu	Gly	Asp	Val	Asp	Ala	Phe	Ala	Asp
			325					330				335	Ile
Pro	Asp	Ser	Leu	Leu	His	Asn	Ile	Gln	Leu	Asp	Ile	Leu	Asp
			340					345				350	Leu
Asn	Arg	Ala	Val	Ala	Gly	Ile	Thr	Ala	Glu	Glu	Phe	Ala	Arg
		355					360					365	Ser
Lys	Lys	Arg	Lys	Leu	Asp	Pro	Asp	Asp	Arg	Ser	Ile	Ala	Ile
		370					375				380		His
Cys	His	Ser	Pro	Gln	Arg	Glu	Val	Glu	Ile	Leu	His	Asp	Arg
		385			390					395			Leu
Ala	Met	Leu	Gln	Asp	Asp	Pro	Thr	Leu	Thr	Pro	Arg	Asp	Ile
			405						410			415	Val
Met	Val	Ala	Asp	Ile	Asp	Ser	Tyr	Ser	Pro	Phe	Ile	Gln	Ala
		420						425				430	Val
Gly	Ser	Ala	Thr	Gly	Asp	Arg	Tyr	Leu	Pro	Tyr	Ala	Ile	Ser
		435					440					445	Asp
Arg	Ala	Arg	Gln	Ser	His	Pro	Ala	Leu	Gln	Ala	Phe	Ile	Ser
		450					455				460		Leu
Ser	Leu	Pro	Asp	Ser	Arg	Phe	Ile	Ser	Glu	Asp	Val	Leu	Ala
		465			470				475			480	Leu
Asp	Val	Pro	Val	Leu	Ala	Ala	Arg	Phe	Asn	Ile	Asn	Glu	Glu
			485					490				495	Gly
Arg	Tyr	Leu	Arg	Gln	Trp	Val	Asn	Glu	Ser	Gly	Val	Arg	Trp
		500					505					510	Gly

Asp Asp Asp Asn Val Gln Glu Phe Glu Leu Pro Ala Thr Gly Gln His
 515 520 525
 Thr Trp Gln Phe Gly Leu Thr Arg Met Leu Leu Gly Tyr Ala Met Glu
 530 535 540
 Ser Ile His Gly Glu Trp Asn Asp Val Leu Pro Tyr Asp Glu Ser Ser
 545 550 555 560
 Gly Leu Ile Ala Glu Leu Val Gly His Leu Ala Thr Leu Leu Met Gln
 565 570 575
 Leu Asn Arg Trp Arg Arg Ala Leu Met Gln Pro Arg Leu Leu Glu Glu
 580 585 590
 Trp Leu Pro Val Cys Arg Glu Met Leu Asn Asp Phe Phe Leu Pro Asp
 595 600 605
 Ser Glu Thr Glu Ala Ala Met Ala Leu Ile Glu Lys Gln Trp Gln Ala
 610 615 620
 Ile Val Asp Glu Gly Val Asn Ser His Tyr His Glu Ala Val Pro Leu
 625 630 635 640
 Ser Leu Leu Arg Asp Glu Leu Thr Gln Arg Leu Asp Gln Glu Arg Ile
 645 650 655
 Ser Gln Arg Phe Leu Ala Gly Pro Val Asn Ile Cys Thr Leu Met Pro
 660 665 670
 Met Arg Ser Ile Pro Phe Lys Val Val Cys Leu Leu Gly Met Asn Asp
 675 680 685
 Gly Ile Tyr Pro Arg Ala Leu Pro Pro Leu Gly Phe Asp Leu Met Ser
 690 695 700
 Ala Gln Pro Lys Arg Gly Asp Arg Ser Arg Arg Asp Asp Arg Tyr
 705 710 715 720
 Leu Phe Leu Glu Ala Leu Met Ser Ala Gln Ser Arg Leu Tyr Ile Ser
 725 730 735
 Tyr Ile Gly Arg Ser Ile Gln Asp Asn Ser Glu Arg Phe Pro Ser Val
 740 745 750
 Leu Val Gln Glu Leu Val Asp Tyr Ile Gly Gln Ser His Tyr Leu Pro
 755 760 765
 Gly Asp Glu Ala Cys Asn Cys Asp Glu Ser Glu Arg Arg Val Ile Ala
 770 775 780
 His Ile Thr Cys His His Ser Arg Met Pro Phe Asp Pro Val Asn Tyr
 785 790 795 800
 Val Pro Asp Glu Leu Gln Ser Tyr Ala Arg Glu Trp Leu Pro Ala Ala
 805 810 815
 Lys Lys Ala Gly Thr Pro Gln Thr Asp Phe Ile Gln Ala Leu Glu Pro
 820 825 830
 Arg Ala Ile Asp Thr Leu Thr Phe Glu Gln Leu Gln Arg Phe Trp Ala
 835 840 845
 His Pro Val Arg Ala Phe Phe Gln Gln Arg Leu Gln Val Asn Phe Arg
 850 855 860
 Ser Glu Glu Ser Glu Ile Pro Asp Ala Glu Pro Phe Ile Leu Asp Gly
 865 870 875 880
 Leu Glu Arg Phe Lys Leu Asn Ser Gln Leu Leu Asn Ala Leu Val Asp
 885 890 895
 Glu Glu Asp Ala Ser Lys Leu Phe Arg Arg Tyr Arg Ala Ser Gly Leu
 900 905 910
 Leu Pro Tyr Gly Ala Phe Gly Glu Ile Val Trp Asp Ala Gln Cys Glu
 915 920 925
 Glu Met Arg Ala Leu Ala Asp Arg Val Ile Ala Cys Arg Gln Pro Ala
 930 935 940
 Ser Ser Ile Glu Ile Asp Leu Asp Cys Asn Gly Met His Leu Ser Gly
 945 950 955 960
 Trp Leu Thr His Val Gln Ser Asp Gly Leu Leu Arg Trp Arg Pro Ser
 965 970 975
 Met Leu Ser Val Ser His Gly Leu Gln Leu Trp Leu Glu His Leu Val
 980 985 990
 Tyr Ser Ala Ser Gly His Glu Gly Glu Ser Arg Leu Phe Val Arg Lys

995 1000 1005
 Asp Gly Glu Trp Arg Phe Pro Arg Met Glu Pro Glu Gln Ala Leu Met
 1010 1015 1020
 Tyr Leu Ser Leu Tyr Ile Glu Gly Tyr Arg Gln Gly Met Asn Lys Pro
 1025 1030 1035 1040
 Leu Leu Leu Leu Pro Glu Ser Gly Gly Ala Trp Ile Lys Ala Cys Tyr
 1045 1050 1055
 Asp Ala Gln Asn Asp Ala Met Leu Thr Asp Glu Ala Ser Leu Gln Lys
 1060 1065 1070
 Ala Arg Ser Lys Phe Leu Gln Ala Tyr Glu Gly Asn Met Met Val Arg
 1075 1080 1085
 Gly Glu Gly Asp Asp Val Trp Tyr Gln Arg Leu Trp Arg Thr Leu Glu
 1090 1095 1100
 Pro Glu Tyr Phe Asp Ile Ile Thr Gln Glu Ala Gln Arg Tyr Leu Leu
 1105 1110 1115 1120
 Pro Leu Tyr Lys Phe Asn Gln Ser
 1125

<210> 7795

<211> 1183

<212> PRT

<213> Enterobacter cloacae

<400> 7795

Glu Arg Met Thr His Thr Ala Glu Pro Leu Asp Pro Leu Ser Leu Pro
 1 5 10 15
 Leu Gln Gly Glu Arg Leu Ile Glu Ala Ser Ala Gly Thr Gly Lys Thr
 20 25 30
 Tyr Thr Ile Ala Ala Leu Tyr Leu Arg Leu Leu Leu Gly Leu Gly Gly
 35 40 45
 Asn Ala Ala Phe Ser Arg Pro Leu Ser Val Glu Glu Leu Val Val
 50 55 60
 Thr Phe Thr Glu Ala Ala Thr Ala Glu Leu Arg Gly Arg Ile Arg Ser
 65 70 75 80
 Asn Ile His Glu Leu Arg Ile Ala Cys Leu Arg Gln Thr Thr Asp Asn
 85 90 95
 Pro Leu Tyr Ala Ser Leu Leu Asp Glu Ile Ala Asp Lys Gln Gln Ala
 100 105 110
 Ala Gln Trp Leu Leu Leu Ala Glu Arg Gln Met Asp Glu Ala Ser Val
 115 120 125
 Phe Thr Ile His Gly Phe Cys Gln Arg Met Leu Ser Leu Asn Ala Phe
 130 135 140
 Glu Ser Gly Met Leu Phe Glu Gln Gln Leu Ile Glu Asp Glu Ser Glu
 145 150 155 160
 Leu Arg Tyr Gln Ala Cys Ala Asp Phe Trp Arg Arg His Cys Tyr Pro
 165 170 175
 Leu Gln Arg Asp Ile Ala Glu Ala Val His Ala Leu Trp Lys Gly Pro
 180 185 190
 Glu Glu Leu Leu Arg Ala Ile Asp Arg Tyr Leu Gln Gly Glu Ala Pro
 195 200 205
 Val Ile Lys Ser Pro Pro Pro Ala Asp Glu Thr Leu Ala Ser Arg His
 210 215 220
 Glu Lys Ile Val Ala Lys Ile Ala Ala Leu Lys Gln Lys Trp Asn Glu
 225 230 235 240
 Ser Val Gly Glu Ile Asp Ala Ile Ile Glu Asn Ser Gly Ile Asp Arg
 245 250 255
 Arg Lys Phe Asn Arg Gly Asn Gln Gly Lys Trp Ile Glu Lys Ile Ser
 260 265 270
 Ala Trp Ala Gln Glu Glu Thr Arg Gly Tyr Gln Leu Pro Asp Ala Leu
 275 280 285
 Glu Lys Phe Ser Gln Arg Phe Leu Thr Glu Arg Thr Lys Ala Asp Gly

290		295		300	
Ile Val Pro Glu His	Pro Leu Phe Val Ala	Ile Glu Ala Leu Leu Ala			
305	310	315		320	
Glu Pro Leu Thr	Leu Asn Asp Leu Met Ile	Thr Arg Ala Met Thr Glu			
	325	330		335	
Ile Arg Gln Ala Val	Ala Arg Glu Lys Arg Arg	Gly Glu Leu Gly			
	340	345		350	
Phe Asp Asp Met Leu Ser Arg	Leu Asp Glu Ala Leu Ser Ser	Glu Asn			
	355	360		365	
Gly Glu Ala Leu Ala Ser Ala	Ile Arg Thr Arg Phe Pro Val Ala Met				
	370	375		380	
Ile Asp Glu Phe Gln Asp Thr	Asp Pro Gln Gln Tyr Arg Ile Phe Arg				
385	390	395		400	
Arg Ile Trp Arg Gln Gln Pro	Asp Thr Ala Leu Leu Ile Gly Asp				
	405	410		415	
Pro Lys Gln Ala Ile Tyr Ala	Phe Arg Gly Ala Asp Ile Phe Thr Tyr				
	420	425		430	
Met Lys Ala Arg Ser Glu Val	Val Ala His Tyr Thr Leu Asp Thr Asn				
	435	440		445	
Trp Arg Ser Ala Pro Gly Met	Val Glu Ser Val Asn Ala Leu Phe Ser				
	450	455		460	
Arg Met Glu Thr Ala Phe Met	Phe Lys Glu Ile Pro Phe Leu Pro Val				
465	470	475		480	
Lys Ser Ala Pro Lys Asn Ala	Ser Leu Arg Phe Glu Val Ser Gly Ala				
	485	490		495	
Glu Gln Pro Ala Met Thr Phe	Trp Leu Leu Glu Glu Glu Tyr Gly				
	500	505		510	
Val Ala Asp Tyr Gln Ala Ala	Met Ala Gln His Cys Ala Ala Gln Ile				
	515	520		525	
Arg Asp Trp Leu Ser Ala Gly	Asn Arg Gly Glu Ala Leu Leu Trp Lys				
	530	535		540	
Gly Glu Gln Ala Asn Pro Val	Lys Ala Ser Asp Ile Thr Val Leu Val				
545	550	555		560	
Arg Ser Arg Gln Glu Ala Ala	Leu Ile Arg Asp Ala Leu Thr Leu Leu				
	565	570		575	
Asp Ile Pro Ser Val Tyr Leu	Ser Asn Arg Asp Ser Val Phe Asp Thr				
	580	585		590	
Leu Glu Ala Gln Glu Met Leu	Trp Leu Leu Gln Ala Val Leu Ala Pro				
	595	600		605	
Glu Arg Glu Asn Thr Leu Arg	Ser Ala Leu Ala Ser Ser Met Leu Gly				
	610	615		620	
Leu Asn Ala Arg Asp Ile Asp	Glu Leu Asn His Asp Glu Asn Ala Trp				
625	630	635		640	
Asp Ala Val Val Glu Glu Phe	Val His Tyr Arg Glu Arg Trp Gln Lys				
	645	650		655	
Arg Gly Val Met Ala Met Leu	Arg Glu Leu Met Thr Arg Arg Gln Ile				
	660	665		670	
Ala Glu Asn Met Leu Ala Ser	Ser Gly Gly Glu Arg Arg Leu Thr Asp				
	675	680		685	
Ile Leu His Ile Ser Glu Leu	Leu Gln Glu Ala Gly Thr Gln Leu Glu				
	690	695		700	
Ser Glu His Ala Leu Val Arg	Trp Leu Ala Gln Gln Ile Ala Asp Pro				
705	710	715		720	
Asn Ser Asn Ala Ser Ser Gln	Gln Met Arg Leu Glu Ser Asp Lys His				
	725	730		735	
Leu Val Gln Ile Val Thr Ile	His Lys Ser Lys Gly Leu Glu Tyr Pro				
	740	745		750	
Leu Val Trp Leu Pro Phe Ile	Ala Asn Tyr Arg Val Gln Asp Gln Ala				
	755	760		765	
Tyr Tyr His Asp Arg Glu Thr	Phe Asp Ala Val Leu Asp Leu Ser Lys				
770	775	780			

Ala Glu Thr Ser Val Glu Leu Ala Glu Ala Glu Arg Leu Ala Glu Asp
 785 790 800
 Leu Arg Leu Leu Tyr Val Ala Leu Thr Arg Ser Val Trp His Cys Ser
 805 810 815
 Leu Gly Val Ala Pro Val Phe Arg Arg Arg Gly Glu Lys Thr Gly Glu
 820 825 830
 Ser Asp Phe His Leu Ser Ala Leu Gly Arg Leu Ile Gln His Gly Glu
 835 840 845
 Pro Lys Asp Ala Ala Gly Leu Arg Leu Cys Ile Glu Ser Leu Cys Gly
 850 855 860
 Asp Asp Ile Ala Leu His Ile Pro Ser Leu Pro Asp Asn Ser Arg Trp
 865 870 875 880
 Glu Met Ala Gln Glu Pro Val Thr Asp Leu Asn Ala Arg Gln Ile Thr
 885 890 895
 Arg Val Leu Ala Asp Asp Trp Arg Val Thr Ser Tyr Ser Gly Leu Gln
 900 905 910
 Gln His Gly Gln Ser Ile Ala Gln Asp Leu Met Pro Lys Leu Asp Val
 915 920 925
 Asp Ala Ala Gly Val Gly Asp Val Pro Val Glu Pro Thr Leu Thr Pro
 930 935 940
 His Gln Phe Pro Arg Gly Ala Ser Pro Gly Thr Phe Leu His Ser Leu
 945 950 955 960
 Phe Glu Glu Leu Asp Phe Thr Gln Pro Val Ser Glu Glu Trp Val Leu
 965 970 975
 Lys Met Leu Gln Ser Gly Gly Tyr Asp Ala His Trp Gln Pro Val Leu
 980 985 990
 Thr Asp Trp Ile Asn Ala Ile Leu Gln Ala Pro Leu Thr Ala Gln Gly
 995 1000 1005
 Phe Ser Leu Arg Gln Leu Thr Ala Lys Asn Lys Gln Val Glu Met Glu
 1010 1015 1020
 Phe Tyr Leu Pro Val Ala Gly Pro Leu Lys Ala Asp Ala Leu Asp Ala
 1025 1030 1035 1040
 Leu Ile Arg Gln Tyr Asp Pro Leu Ser Ala Gly Cys Pro Pro Leu Asn
 1045 1050 1055
 Phe Arg Gln Val Gln Gly Met Leu Lys Gly Phe Ile Asp Leu Val Phe
 1060 1065 1070
 Arg His Glu Gly Arg Tyr Tyr Leu Leu Asp Tyr Lys Ser Asn Trp Leu
 1075 1080 1085
 Gly Glu Asn Ser Ala Ala Tyr Thr Gln Gln Ala Met Ala Ala Met
 1090 1095 1100
 Gln Met His Arg Tyr Asp Leu Gln Tyr Gln Leu Tyr Thr Leu Ala Leu
 1105 1110 1115 1120
 His Arg Tyr Leu Arg His Arg Ile Ala Asp Tyr Arg Tyr Asp Asp His
 1125 1130 1135
 Phe Gly Gly Val Ile Tyr Leu Phe Leu Arg Gly Val Asp Ala Ala Asp
 1140 1145 1150
 Pro Arg Ser Gly Ile Phe Ser Thr Arg Pro Asp Ala Glu Leu Ile Asn
 1155 1160 1165
 Lys Met Asp Asn Leu Phe Ala Ala Asn Thr Glu Glu Met Ala
 1170 1175 1180

<210> 7796

<211> 451

<212> PRT

<213> Enterobacter cloacae

<400> 7796

Thr Phe Thr Lys Gly Cys Ile Met Val Lys Glu Arg Arg Thr Glu Leu
 1 5 10 15
 Val Gln Gly Phe Arg His Ser Val Pro Tyr Ile Asn Thr His Arg Gly
 20 25 30

Lys Thr Phe Val Ile Met Leu Gly Gly Glu Ala Ile Glu His Glu Asn
 35 40 45
 Phe Ser Ser Ile Val Asn Asp Ile Gly Leu Leu His Ser Leu Gly Ile
 50 55 60
 Arg Leu Val Val Val Tyr Gly Ala Arg Pro Gln Ile Glu Ala Asn Leu
 65 70 75 80
 Ala Ala His His His Glu Pro Ile Tyr His Lys His Thr Arg Val Thr
 85 90 95
 Asp Ala Lys Thr Leu Glu Leu Val Lys Gln Ala Ala Gly Leu Leu Gln
 100 105 110
 Leu Asp Ile Thr Ala Arg Leu Ser Met Ser Leu Asn Asn Thr Pro Leu
 115 120 125
 Gln Gly Ala His Ile Asn Val Val Ser Gly Asn Phe Ile Ile Ala Gln
 130 135 140
 Pro Leu Gly Val Asp Asp Gly Val Asp Tyr Cys His Ser Gly Arg Ile
 145 150 155 160
 Arg Arg Ile Asp Glu Asp Ala Ile His Arg Gln Leu Asp Asn Gly Ala
 165 170 175
 Ile Val Leu Met Gly Pro Val Ala Val Ser Val Thr Gly Glu Ser Phe
 180 185 190
 Asn Leu Thr Ser Glu Glu Ile Ala Thr Gln Leu Ala Ile Lys Leu Lys
 195 200 205
 Ala Glu Lys Met Ile Gly Phe Cys Ser Ser Gln Gly Val Val Asn Asp
 210 215 220
 Glu Gly Val Ile Val Pro Glu Leu Phe Pro Asn Glu Ala Gln Ala Arg
 225 230 235 240
 Val Glu Ala Leu Glu Ala Glu Gly Asp Tyr Tyr Ser Gly Thr Val Arg
 245 250 255
 Phe Leu Arg Gly Ala Val Lys Ala Cys Arg Ser Gly Val Arg Arg Ser
 260 265 270
 His Leu Ile Ser Tyr Gln Glu Asp Gly Ala Leu Leu Gln Glu Leu Phe
 275 280 285
 Ser Arg Asp Gly Ile Gly Thr Gln Ile Val Met Glu Ser Ala Glu Gln
 290 295 300
 Ile Arg Arg Ala Thr Ile Asn Asp Ile Gly Gly Ile Leu Glu Leu Ile
 305 310 315 320
 Arg Pro Leu Glu Gln Gln Gly Ile Leu Val Arg Arg Ser Arg Glu Gln
 325 330 335
 Leu Glu Met Glu Ile Asp Lys Phe Thr Ile Ile Gln Arg Asp Asn Leu
 340 345 350
 Thr Ile Ala Cys Ala Ala Leu Tyr Pro Phe Pro Glu Glu Gln Ile Gly
 355 360 365
 Glu Met Ala Cys Val Ala Val His Pro Asp Tyr Arg Ser Ser Ser Arg
 370 375 380
 Gly Glu Leu Leu Leu Glu Arg Val Ala Ala Gln Ala Arg Gln Met Gly
 385 390 395 400
 Leu Ser Lys Leu Phe Val Leu Thr Thr Arg Ser Ile His Trp Phe Gln
 405 410 415
 Glu Arg Gly Phe Thr Pro Val Asp Ile Asp Ser Leu Pro Glu Ser Lys
 420 425 430
 Lys Glu Met Tyr Asn Tyr Gln Arg Arg Ser Lys Val Leu Met Ala Asp
 435 440 445
 Leu Gly
 450

<210> 7797

<211> 242

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(18)

<400> 7797

Ser Ser Asp Gly Asp Leu Arg Tyr Leu Ser Phe Ile Pro Leu Thr Glu
 1 5 10 15
 Leu Xaa Met Gln Tyr Pro Ile Asn Glu Met Phe Gln Thr Leu Gln Gly
 20 25 30
 Glu Gly Tyr Phe Thr Gly Val Pro Ala Ile Phe Ile Arg Leu Gln Gly
 35 40 45
 Cys Pro Val Gly Cys Ala Trp Cys Asp Thr Lys His Thr Trp Asp Lys
 50 55 60
 Leu Ala Asp Arg Glu Val Ser Leu Phe Ser Ile Leu Ala Lys Thr Lys
 65 70 75 80
 Glu Ser Asp Lys Trp Gly Ala Gly Ser Ala Glu Asp Leu Leu Ala Ile
 85 90 95
 Ile Gly Arg Gln Gly Trp Thr Ala Arg His Val Val Ile Thr Gly Gly
 100 105 110
 Glu Pro Cys Ile His Asp Leu Met Pro Leu Thr Glu Leu Leu Glu Lys
 115 120 125
 Asn Gly Tyr Ser Cys Gln Ile Glu Thr Ser Gly Thr His Glu Val Arg
 130 135 140
 Cys Ser His Ser Thr Trp Val Thr Val Ser Pro Lys Val Asn Met Arg
 145 150 155 160
 Gly Gly Tyr Asp Val Leu Ser Gln Ala Leu Glu Arg Ala Asp Glu Ile
 165 170 175
 Lys His Pro Val Gly Arg Val Arg Asp Ile Glu Ala Leu Asp Glu Leu
 180 185 190
 Leu Ala Thr Leu Thr Asp Glu Lys Gln Arg Val Ile Ala Leu Gln Pro
 195 200 205
 Ile Ser Gln Lys Asp Asp Ala Thr Arg Leu Cys Ile Glu Thr Cys Ile
 210 215 220
 Ala Arg Asn Trp Arg Leu Ser Met Gln Thr His Lys Tyr Leu Asn Ile
 225 230 235 240
 Ala

<210> 7798

<211> 584

<212> PRT

<213> Enterobacter cloacae

<400> 7798

Ala Ala Arg Arg Ala Pro Leu Ser Ala Arg Cys Leu Leu Met Ser Glu
 1 5 10 15
 Lys His Pro Gly Pro Leu Val Val Glu Gly Lys Leu Ser Asp Ala Glu
 20 25 30
 Arg Met Lys Val Glu Ser Asn Tyr Leu Arg Gly Thr Ile Ala Glu Asp
 35 40 45
 Leu Asn Asp Gly Leu Thr Gly Gly Phe Lys Gly Asp Asn Phe Leu Leu
 50 55 60
 Ile Arg Phe His Gly Met Tyr Gln Gln Asp Asp Arg Asp Ile Arg Ala
 65 70 75 80
 Glu Arg Ala Glu Gln Lys Leu Glu Pro Arg His Ala Met Leu Leu Arg
 85 90 95
 Cys Arg Leu Pro Gly Gly Ile Ile Thr Thr Lys Gln Trp Gln Ala Ile
 100 105 110
 Asp Lys Phe Ala His Asp Asn Thr Ile Tyr Gly Ser Ile Arg Leu Thr
 115 120 125
 Asn Arg Gln Thr Phe Gln Phe His Gly Ile Leu Lys Lys Asn Val Lys
 130 135 140

Pro Val His Gln Met Leu His Ser Val Gly Leu Asp Ala Leu Ala Thr
 145 150 155 160
 Ala Asn Asp Met Asn Arg Asn Val Leu Cys Thr Ser Asn Pro Tyr Glu
 165 170 175
 Ser Glu Leu His Ala Glu Ala Tyr Glu Trp Ala Lys Lys Ile Ser Glu
 180 185 190
 His Leu Leu Pro Arg Thr Arg Ala Tyr Ala Glu Ile Trp Leu Asp Gln
 195 200 205
 Glu Lys Val Ala Thr Thr Asp Glu Glu Pro Ile Leu Gly Gln Thr Tyr
 210 215 220
 Leu Pro Arg Lys Phe Lys Thr Thr Val Val Ile Pro Pro Gln Asn Asp
 225 230 235 240
 Ile Asp Leu His Ala Asn Asp Met Asn Phe Val Ala Ile Ala Glu Asn
 245 250 255
 Gly Lys Leu Val Gly Phe Asn Leu Leu Val Gly Gly Gly Leu Ser Ile
 260 265 270
 Glu His Gly Asn Lys Lys Thr Tyr Ala Arg Thr Ala Ser Glu Phe Gly
 275 280 285
 Phe Leu Pro Leu Glu His Thr Leu Ala Val Ala Glu Ala Val Val Thr
 290 295 300
 Thr Gln Arg Asp Trp Gly Asn Arg Thr Asp Arg Lys Asn Ala Lys Thr
 305 310 315 320
 Lys Tyr Thr Leu Glu Arg Val Gly Val Glu Thr Phe Lys Glu Glu Val
 325 330 335
 Glu Arg Arg Ala Gly Ile Lys Phe Glu Pro Ile Arg Pro Tyr Glu Phe
 340 345 350
 Thr Gly Arg Gly Asp Arg Ile Gly Trp Val Lys Gly Ile Asp Asn Lys
 355 360 365
 Trp His Leu Thr Leu Phe Ile Glu Asn Gly Arg Ile Leu Asp Tyr Pro
 370 375 380
 Gly Arg Pro Leu Lys Thr Gly Leu Leu Glu Ile Ala Lys Ile His Lys
 385 390 395 400
 Gly Glu Phe Arg Ile Thr Ala Asn Gln Asn Leu Ile Val Ala Ser Val
 405 410 415
 Pro Glu Ser Glu Lys Ala Arg Ile Glu Glu Leu Ala Arg Glu His Gly
 420 425 430
 Leu Met Asn Ala Val Ser Val Gln Arg Glu Asn Ser Met Ala Cys Val
 435 440 445
 Ser Phe Pro Thr Cys Pro Leu Ala Met Ala Glu Ala Glu Arg Phe Leu
 450 455 460
 Pro Ser Phe Thr Asp Lys Val Glu Ala Ile Leu Glu Lys His Gly Ile
 465 470 475 480
 Pro Asp Glu His Ile Val Met Arg Val Thr Gly Cys Pro Asn Gly Cys
 485 490 495
 Gly Arg Ala Met Leu Ala Glu Leu Gly Leu Val Gly Lys Ala Pro Gly
 500 505 510
 Arg Tyr Asn Leu His Leu Gly Gly Asn Arg Ile Gly Thr Arg Ile Pro
 515 520 525
 Arg Met Phe Arg Glu Asn Ile Thr Glu Pro Glu Ile Leu Asp Ser Leu
 530 535 540
 Asp Val Leu Ile Gly Arg Trp Ala Lys Glu Arg Glu Ala Gly Glu Gly
 545 550 555 560
 Phe Gly Asp Phe Thr Val Arg Ala Gly Ile Ile Arg Pro Val Leu Asp
 565 570 575
 Pro Ala Arg Asp Phe Trp Glu
 580

<210> 7799

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 7799

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Pro Arg Glu Val Ile Met Ser Val Leu Asp Leu Asn Ala Leu Asn Ala
1      5      10      15
Leu Pro Lys Val Glu Arg Ile Leu Ala Leu Ala Glu Thr Asn Ala Gln
      20      25      30
Leu Glu Lys Leu Asp Ala Glu Gly Arg Val Ala Trp Ala Leu Glu Asn
      35      40      45
Leu Pro Gly Asp Tyr Val Leu Ser Ser Phe Gly Ile Gln Ala Ala
      50      55      60
Val Ser Leu His Leu Val Asn Gln Ile Arg Pro Asp Ile Pro Val Ile
65      70      75      80
Leu Thr Asp Thr Gly Tyr Leu Phe Pro Glu Thr Tyr Gln Phe Ile Asp
      85      90      95
Glu Leu Thr Asp Lys Leu Arg Leu Asn Leu Lys Val Tyr Arg Ala Thr
      100      105      110
Glu Ser Ala Ala Trp Gln Glu Ala Arg Tyr Gly Lys Leu Trp Glu Gln
      115      120      125
Gly Val Glu Gly Ile Glu Lys Tyr Asn Glu Ile Asn Lys Val Glu Pro
      130      135      140
Met Asn Arg Ala Leu Lys Glu Leu Asn Ala Gln Thr Trp Phe Ala Gly
145      150      155      160
Leu Arg Arg Glu Gln Ser Gly Ser Arg Ala Thr Leu Pro Val Leu Ala
      165      170      175
Val Gln Arg Gly Val Phe Lys Val Leu Pro Ile Ile Asp Trp Asp Asn
      180      185      190
Arg Thr Val Tyr Gln Tyr Leu Gln Lys His Gly Leu Lys Tyr His Pro
      195      200      205
Leu Trp Asp Gln Gly Tyr Leu Ser Val Gly Asp Thr His Thr Thr Arg
      210      215      220
Lys Trp Glu Pro Gly Met Ala Glu Glu Glu Thr Arg Phe Phe Gly Leu
225      230      235      240
Lys Arg Glu Cys Gly Leu His Glu Gly
      245      250

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<210> 7800

<211> 125

<212> PRT

<213> *Enterobacter cloacae*

<400> 7800

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Asn Pro Ala Val Glu Ser Ser Gly Lys Leu Trp Asp Asp Asp Ala Val
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Phe Ser Gly Gly Arg Met Gly Lys Leu Thr Leu Leu Leu Ala Leu
      20      25      30
Leu Val Trp Leu Gln Tyr Ser Leu Trp Phe Gly Lys Asn Gly Leu His
      35      40      45
Asp Tyr Ser Arg Val Ser Asp Asp Val Ala Ala Gln Gln Ala Thr Asn
      50      55      60
Ala Lys Leu Lys Ala Arg Asn Asp Gln Leu Phe Ala Glu Ile Asp Asp
65      70      75      80
Leu Asn Gly Gly Gln Glu Ala Ile Glu Glu Arg Ala Arg Asn Glu Leu
      85      90      95
Ser Met Thr Lys Pro Gly Glu Thr Phe Tyr Arg Leu Val Pro Asp Ala
      100      105      110
Ser Lys Arg Asn Gln Gly Ser Ala Gln Asn Asn Arg
      115      120      125

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<210> 7801

<211> 186

<212> PRT

<213> Enterobacter cloacae

<400> 7801

Tyr Lys Ser Asp Ala Pro Gly Arg Leu Thr Ala Arg Gly Ile Leu Ser
 1 5 10 15
 Tyr Pro Tyr Asp Pro Ser Gly Glu Gly Ile Met Arg Ile Gly His Gly
 20 25 30
 Phe Asp Val His Ala Phe Gly Gly Val Gly Pro Ile Ile Ile Gly Gly
 35 40 45
 Val Arg Ile Pro Tyr Glu Lys Gly Leu Leu Ala His Ser Asp Gly Asp
 50 55 60
 Val Ala Leu His Ala Leu Thr Asp Ala Leu Leu Gly Ala Ala Ala Leu
 65 70 75 80
 Gly Asp Ile Gly Lys Leu Phe Pro Asp Thr Asp Pro Ala Phe Lys Gly
 85 90 95
 Ala Asp Ser Arg Glu Leu Leu Arg Glu Ala Trp Arg Arg Ile Gln Ala
 100 105 110
 Lys Gly Tyr Thr Leu Gly Asn Val Asp Val Thr Ile Ile Ala Gln Ala
 115 120 125
 Pro Lys Met Leu Pro His Ile Pro Gln Met Arg Val Phe Ile Ala Glu
 130 135 140
 Asp Leu Gly Cys His Met Asp Asp Val Asn Val Lys Ala Thr Thr Thr
 145 150 155 160
 Glu Lys Leu Gly Phe Thr Gly Arg Gly Glu Gly Ile Ala Cys Glu Ala
 165 170 175
 Val Ala Leu Leu Val Lys Ala Ala Lys
 180 185

<210> 7802

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 7802

Pro Ser Ser Tyr Ala Ser Gly Cys Arg Gln Val Ala Leu Pro Pro Val
 1 5 10 15
 Leu Ser Gly Asn Leu Ser Thr Arg Arg Val Ile Met Arg Ile Leu Leu
 20 25 30
 Ser Asn Asp Asp Gly Ile His Ala Pro Gly Ile Gln Thr Leu Ala Lys
 35 40 45
 His Leu Arg Glu Phe Ala Asp Val Gln Val Val Ala Pro Asp Arg Asn
 50 55 60
 Arg Ser Gly Ala Ser Asn Ser Leu Thr Leu Glu Ser Ser Leu Arg Thr
 65 70 75 80
 Phe Thr Phe Glu Asn Gly Asp Ile Ala Val Gln Met Gly Thr Pro Thr
 85 90 95
 Asp Cys Val Phe Leu Gly Val Asn Ala Leu Met Arg Pro Arg Pro Asp
 100 105 110
 Val Val Val Ser Gly Ile Asn Ala Gly Pro Asn Leu Gly Asp Asp Val
 115 120 125
 Ile Tyr Ser Gly Thr Val Ala Ala Ala Met Glu Gly Arg His Leu Gly
 130 135 140
 Phe Pro Ala Leu Ala Val Ser Leu Asn Gly His Thr His Tyr Asp Thr
 145 150 155 160
 Ala Ala Ala Val Thr Cys Ser Ile Leu Arg Ala Leu Gly Arg Glu Pro
 165 170 175
 Leu Arg Thr Gly Arg Ile Leu Asn Ile Asn Val Pro Asp Leu Pro Leu
 180 185 190
 Asp Glu Ile Lys Gly Ile Arg Val Thr Arg Cys Gly Ser Arg His Pro
 195 200 205
 Ala Asp Gln Val Ile Pro Gln Gln Asp Pro Arg Gly Asn Thr Leu Tyr

210		215		220
Trp Ile Gly Pro Pro Gly Asp Lys Cys Asp Ala Gly Pro Asp Thr Asp				
225		230		235
Phe Ala Ala Val Asp Glu Gly Tyr Val Ser Val Thr Pro Leu His Val				
	245		250	
Asp Leu Thr Ala Tyr Ser Ala His Asp Val Val Ser Asp Trp Leu Asp				
	260		265	270
Arg Val Gly Val Asn Ala Gln Trp				
	275		280	

<210> 7803

<211> 67

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(29)

<220>

<221>UNSURE

<222>(53)

<220>

<221>UNSURE

<222>(67)

<400> 7803

Arg Gln Ile Pro Gly Cys Trp Lys Leu Ala Pro Val Gln Gly Ile Arg				
1	5		10	15
Pro Arg Ser Trp Pro Thr Leu Cys Thr Met Ser Val Xaa Val Glu Arg				
	20		25	30
Ile Lys Gly Leu Gln Trp Gln Ala Arg Arg Arg Leu Lys Gln Leu Asp				
	35		40	45
Leu His Lys Phe Xaa Leu Gln Pro Pro Arg Ala Trp Lys Asp His Ala				
	50	55		60
Trp Val Xaa				
65				

<210> 7804

<211> 214

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(204)

<400> 7804

Arg Gly Ser Gly His Leu Trp Pro Ala Arg His His Tyr Gln Lys Arg				
1	5		10	15
Ser Gly Arg Asp Leu Ile Val Met Lys Thr Val Leu Asp Asn Leu Lys				
	20		25	30
Gly Lys Leu Val Val Ser Cys Gln Ala Leu Glu Asn Glu Pro Leu His				
	35		40	45
Ser Pro Phe Ile Met Ser Arg Met Ala Leu Ala Ala Ala Gln Gly Gly				
	50	55		60
Ala Ala Ala Ile Arg Ala Asn Ser Val Val Asp Ile Glu Ala Ile Lys				
	65	70	75	80
Gly Leu Val Ser Leu Pro Val Ile Gly Ile Lys Arg Asp Tyr Pro				
	85		90	95

Asp Ser Glu Val Phe Ile Thr Ala Thr Leu Lys Glu Val Asp Glu Leu
 100 105 110
 Met Ala Val Ala Pro Glu Ile Val Ala Leu Asp Ala Thr Ala Arg Lys
 115 120 125
 Arg Pro Gly Gly Val Ser Leu Asp Met Leu Ile Ala Gln Ile Arg Thr
 130 135 140
 Arg Tyr Pro Ser Leu Leu Met Ala Asp Ile Ala Thr Val Gln Glu
 145 150 155 160
 Ala Val Thr Ala Gln Ala Leu Gly Phe Asp Cys Val Gly Thr Thr Leu
 165 170 175
 Tyr Gly Tyr Thr Ala Glu Thr Ala Gly His Ser Leu Pro Glu Asn Asp
 180 185 190
 Cys Ala Phe Leu Lys Glu Leu Arg Ser Ala Val Xaa Ile Pro Gly Asp
 195 200 205
 Cys Arg Lys Val Thr
 210

<210> 7805

<211> 604

<212> PRT

<213> *Enterobacter cloacae*

<400> 7805

Arg Arg Met Thr Thr Gln Ala Pro Pro Ser Asn Leu Leu Pro Leu Asn
 1 5 10 15
 Pro Glu Gln Leu Ala Arg Leu Gln Ala Ala Thr Ser Asp Phe Ser Pro
 20 25 30
 Thr Gln Leu Ala Trp Val Ser Gly Tyr Phe Trp Gly Met Leu Asn Gln
 35 40 45
 Gln Pro Gly Ala Val Ala Gly Val Pro Pro Thr Ala Val Glu Ile Pro
 50 55 60
 Ala Ile Thr Leu Ile Ser Ala Ser Gln Thr Gly Asn Ala Arg Arg Val
 65 70 75 80
 Ala Glu Ala Leu Arg Asp Asp Leu Leu Ala Ala Lys Leu Asn Val Asn
 85 90 95
 Leu Val Asn Ala Gly Asp Tyr Lys Phe Lys Gln Ile Ala Ser Glu Lys
 100 105 110
 Leu Leu Val Val Val Ala Ser Thr Gln Gly Glu Gly Glu Pro Ala Glu
 115 120 125
 Glu Ala Val Ala Leu His Lys Phe Leu Phe Ser Lys Lys Ala Pro Lys
 130 135 140
 Leu Glu Gly Thr Ala Phe Ala Val Phe Gly Leu Gly Asp Thr Ser Tyr
 145 150 155 160
 Glu Phe Phe Cys Gln Ser Gly Lys Asp Phe Asp Ser Lys Leu Ala Glu
 165 170 175
 Leu Gly Ala Glu Arg Leu Leu Asp Arg Val Asp Ala Asp Val Glu Tyr
 180 185 190
 Gln Ala Ala Ala Ala Glu Trp Arg Ala Arg Ile Val Glu Val Leu Lys
 195 200 205
 Ala Arg Val Pro Lys Glu Thr Pro Ala Gln Ala Ala Val Thr Ala Ala
 210 215 220
 Gly Thr Val Asn Glu Ile His Thr Ser Pro Tyr Thr Lys Glu Ala Pro
 225 230 235 240
 Leu Thr Ala Ser Leu Ser Val Asn Gln Lys Ile Thr Gly Arg Asp Ser
 245 250 255
 Glu Lys Asp Val Arg His Ile Glu Ile Asp Leu Gly Asp Ser Gly Leu
 260 265 270
 Arg Tyr Gln Pro Gly Asp Ala Leu Gly Val Trp Tyr Gln Asn Asp Pro
 275 280 285
 Ala Leu Val Lys Glu Leu Val Glu Leu Leu Trp Leu Lys Gly Thr Glu
 290 295 300

Pro Val Gln Val Glu Gly Lys Thr Leu Pro Leu Ser Glu Ala Leu Gln
 305 310 315 320
 Trp His Phe Glu Leu Thr Val Asn Thr Ala Asn Ile Val Glu Asn Tyr
 325 330 335
 Ala Thr Leu Thr Arg Ser Glu Ser Leu Leu Pro Leu Val Gly Asp Lys
 340 345 350
 Ala Lys Leu Gln Gln Tyr Ala Ala Thr Thr Pro Ile Val Asp Met Val
 355 360 365
 Arg Phe Ser Pro Ala Gln Leu Asp Ala Asp Ala Leu Ile Gly Leu Leu
 370 375 380
 Arg Pro Leu Thr Pro Arg Leu Tyr Ser Ile Ala Ser Ser Gln Ala Glu
 385 390 395 400
 Val Glu Asn Glu Val His Ile Thr Val Gly Val Val Arg Tyr Asp Ile
 405 410 415
 Glu Gly Arg Ala Arg Ala Gly Gly Ala Ser Gly Phe Leu Ala Asp Arg
 420 425 430
 Val Glu Glu Glu Gly Glu Val Arg Val Phe Ile Glu His Asn Asp Asn
 435 440 445
 Phe Arg Leu Pro Ala Asn Pro Glu Thr Pro Val Ile Met Ile Gly Pro
 450 455 460
 Gly Thr Gly Ile Ala Pro Phe Arg Ala Phe Met Gln Gln Arg Ala Ala
 465 470 475 480
 Asp Glu Ala Pro Gly Lys Asn Trp Leu Phe Phe Gly Asn Pro His Phe
 485 490 495
 Thr Glu Asp Phe Leu Tyr Gln Val Glu Trp Gln Arg Tyr Val Lys Glu
 500 505 510
 Gly Val Leu Thr Arg Ile Asp Leu Ala Trp Ser Arg Asp Gln Lys Glu
 515 520 525
 Lys Val Tyr Val Gln Asp Lys Leu Arg Glu Gln Gly Ala Glu Leu Trp
 530 535 540
 Arg Trp Ile Asn Asp Gly Ala His Ile Tyr Val Cys Gly Asp Ala Asn
 545 550 555 560
 Arg Met Ala Lys Asp Val Glu Gln Ala Leu Leu Glu Val Ile Ala Glu
 565 570 575
 Phe Gly Gly Met Asp Ala Glu Thr Ala Asp Glu Phe Leu Ser Glu Leu
 580 585 590
 Arg Val Glu Arg Arg Tyr Gln Arg Asp Val Tyr
 595 600

<210> 7806

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 7806

Ala Leu Pro Ala Leu Gly Arg Thr Arg Ser Ala Gly Arg Gln Val Met
 1 5 10 15
 Ala Ala His Asp Glu Asn Val Val Trp His Pro His Pro Val Thr Val
 20 25 30
 Ala Gln Arg Glu Gln Leu His Gly His Arg Gly Val Val Leu Trp Phe
 35 40 45
 Thr Gly Leu Ser Gly Ser Gly Lys Ser Thr Val Ala Gly Ala Leu Glu
 50 55 60
 Glu Ala Leu His Gln Gln Gly Val Ser Thr Tyr Leu Leu Asp Gly Asp
 65 70 75 80
 Asn Val Arg His Gly Leu Cys Ser Asp Leu Gly Phe Ser Asp Glu Asp
 85 90 95
 Arg Lys Glu Asn Ile Arg Arg Val Gly Glu Val Ala Ser Leu Met Ala
 100 105 110
 Asp Ala Gly Leu Val Val Leu Thr Ala Phe Ile Ser Pro His Arg Ala
 115 120 125

Glu Arg Gln Met Val Arg Glu Arg Val Gly Gln Asn Arg Phe Ile Glu
 130 135 140
 Val Phe Val Asp Thr Pro Leu Ala Ile Cys Glu Ala Arg Asp Leu Lys
 145 150 155 160
 Gly Leu Tyr Lys Lys Ala Arg Ala Gly Glu Leu Arg Asn Phe Thr Gly
 165 170 175
 Ile Asp Ser Val Tyr Glu Ala Pro Glu Ser Pro Glu Ile His Leu Glu
 180 185 190
 Gly Gln Gln Leu Val Thr Asn Leu Val Ser Gln Leu Leu Asp Leu Leu
 195 200 205
 Arg Arg Asp Asp Ile Ile Arg Ser
 210 215

<210> 7807

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7807

Leu Ser Arg Ala Lys Arg Phe Ile Ala Trp Phe Arg Met Arg Leu Asn
 1 5 10 15
 Ala Ile Arg Ala Pro His Lys Thr Ile Asp Asn Gln Ala Gln Asp Tyr
 20 25 30
 Asp Met Ala Ala Thr Phe Ser Asp Val Cys Ala Val Val Pro Ala Ala
 35 40 45
 Gly Phe Gly Arg Arg Met Gln Thr Glu Cys Pro Lys Gln Tyr Leu Ser
 50 55 60
 Ile Gly Asp Lys Thr Ile Leu Glu His Ala Val Ala Ala Leu Leu Ala
 65 70 75 80
 His Ser Arg Val Lys Arg Val Val Ile Ala Ile Ser Pro Gly Asp Ala
 85 90 95
 Leu Phe Ala Gln Leu Pro Leu Ala Asn His Pro Gln Ile Thr Val Val
 100 105 110
 Asp Gly Gly Ala Glu Arg Ala Asp Ser Val Leu Ala Gly Ile Gln Ala
 115 120 125
 Ala Gly Asn Ala Gln Trp Val Leu Val His Asp Ala Ala Arg Pro Cys
 130 135 140
 Leu His His Asp Asp Leu Ser Arg Leu Leu Ala Leu Ser Glu Thr Ser
 145 150 155 160
 Asn Val Gly Gly Ile Leu Ala Ala Pro Val Arg Asp Thr Met Lys Arg
 165 170 175
 Ala Glu Pro Gly Lys Pro Ala Ile Ala His Thr Val Glu Arg Val Asp
 180 185 190
 Leu Trp His Ala Leu Thr Pro Gln Phe Phe Pro Arg Glu Leu Leu His
 195 200 205
 Asp Cys Leu Thr Arg Ala Leu Lys Glu Gly Ala Thr Ile Thr Asp Glu
 210 215 220
 Ala Ser Ala Leu Glu Tyr Cys Gly Phe His Pro Thr Leu Val Glu Gly
 225 230 235 240
 Arg Ala Asp Asn Ile Lys Val Thr Arg Pro Glu Asp Leu Gln Leu Ala
 245 250 255
 Glu Phe Tyr Leu Thr Arg Thr Thr Pro Gln Glu Lys Ala
 260 265 270

<210> 7808

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 7808

Glu Lys Glu Ala Leu Ala Asp Glu Asp Thr Leu Pro Gln Ser Glu Arg

1		5		10		15
Ala	Ala	Ala	Val	Ile	Ala	Gly
		20				25
Val	Asp	Cys	Cys	Ala	Thr	Arg
		35				40
Lys	Val	Asn	Glu	Ser	Ala	Leu
		50				55
Val	Arg	Gly	Asn	Gly	Val	Gln
		65				70
Ile	Lys	Asn	Glu	Val	Glu	Glu
		85				90

<210> 7809

<211> 799

<212> PRT

<213> Enterobacter cloacae

<400> 7809

Gln	Lys	Arg	Ala	Gly	His	Tyr	Leu	Ser	Leu	Val	Arg	Gly	Lys	Met	Ala
1				5					10					15	
Gln	Arg	Gly	Asp	Glu	Phe	Trp	Ile	Glu	Ile	Gln	Asp	Ile	Arg	His	Cys
		20						25						30	
Val	Glu	Asp	Glu	Gly	Asp	Thr	Leu	Thr	Leu	Leu	Trp	Met	Leu	Glu	Gly
		35				40						45			
Arg	Ala	Glu	Leu	Asn	Thr	Asp	Ala	Gly	Arg	Asp	Thr	Leu	Glu	Ala	Asn
		50				55				60					
Thr	Leu	Ala	Ile	Ile	Asn	Arg	His	Arg	Arg	Trp	Gln	Phe	Thr	Ser	Glu
		65			70				75					80	
Thr	Ala	Asn	Val	Thr	Leu	Arg	Val	Thr	Leu	Ser	Gly	Arg	Trp	Val	Val
		85						90						95	
Gln	Leu	Cys	Asn	Asp	Phe	Phe	Ala	His	Asp	Tyr	Ala	Val	Pro	Ala	Glu
		100					105							110	
Ala	Gly	Gly	Val	Trp	Pro	Gln	Cys	Asp	Ala	Leu	Arg	Asp	Leu	Leu	Arg
		115					120					125			
Gln	Leu	Leu	Val	Val	Thr	Leu	Ile	Asn	Asp	Pro	His	Arg	Tyr	Arg	Leu
		130				135					140				
Glu	Ala	Tyr	Arg	Trp	Leu	Ser	Glu	Ile	Leu	Leu	Leu	Leu	Thr	Ser	Arg
		145			150				155					160	
Phe	Gln	Gln	Pro	Ala	Arg	Met	Leu	Ser	Arg	Glu	Leu	Ser	Ser	Ala	His
		165							170					175	
Ser	Lys	Arg	Ile	Ala	Arg	Val	Ile	Glu	Arg	Ile	Asn	Ala	Ser	Tyr	Ser
		180					185						190		
Arg	Arg	Ile	Thr	Leu	Ala	Glu	Ile	Ala	Ala	Ser	Glu	Tyr	Val	Ser	Glu
		195				200						205			
Ala	Trp	Leu	Ser	Arg	Leu	Phe	Arg	Lys	Glu	Val	Gly	Ile	Ser	Phe	Met
		210				215					220				
Gln	Tyr	Ile	Thr	Arg	Leu	Arg	Leu	Glu	Lys	Ala	Ala	Asn	Ala	Leu	Arg
		225			230				235					240	
Leu	Thr	Asn	Arg	Pro	Leu	His	Gln	Ile	Ala	Leu	Glu	Gln	Gly	Phe	Ala
		245						250						255	
Ser	Thr	Arg	Met	Met	Ser	Asp	Arg	Phe	Arg	Arg	Val	His	Asn	Met	Ser
		260					265					270			
Pro	Gly	Glu	Phe	Arg	Lys	Ala	Arg	Arg	Gln	His	Pro	Glu	Ala	Ala	Arg
		275					280					285			
Val	Arg	Ala	Asp	Arg	Arg	Glu	Gln	Arg	Tyr	Pro	Val	Ala	Val	Asp	Lys
		290				295				300					
Leu	Phe	Ser	Leu	Leu	Asn	Glu	Pro	Val	Ala	Arg	Gly	Trp	Gly	Ala	Ser
		305			310				315					320	
Pro	Leu	Val	Val	His	Pro	Gln	Gln	Glu	Gln	Arg	Leu	Asp	Leu	Glu	Gln
		325						330						335	
Leu	Asn	Pro	Leu	Ser	Ala	Ser	Leu	Arg	Arg	Met	Arg	Val	Val	Ile	Thr

340 345 350
 Leu Arg Glu Leu Asp Asp Leu Leu Arg Glu Asp Val Arg Gln Asn Leu
 355 360 365
 Glu Ala Ile Asn Glu Ala Ile Pro Ile Glu Gly Ile Asp Ile Ala Glu
 370 375 380
 Pro Phe Leu Ser Ser Arg Leu Phe Ala Thr Gly Trp Asp Asp Pro Gln
 385 390 395 400
 Met Ala Gly Tyr Ala Cys Trp Tyr Asn Leu His Gln Leu Phe Thr Trp
 405 410 415
 Leu Ala Lys Lys Gln Trp Thr Val Leu Leu His Thr Gly Val Thr Thr
 420 425 430
 Arg Arg Asp Leu Leu Thr Arg Phe Leu Gln Gln Ser Val Asn His Phe
 435 440 445
 Ala Pro Glu Ile Thr Ala Gly Trp His Phe Val Met His Trp Ser Thr
 450 455 460
 Gln Ala Ser Glu Glu Thr Arg Glu Gln Val Trp Leu Ala Gln Gln Lys
 465 470 475 480
 Ala Ile Arg Thr Tyr Leu Pro Gln Ala Lys Phe Gly Leu Trp His Arg
 485 490 495
 Phe Ala Pro Val Ser Ala Gly Val Ser Asp Asp Thr Leu Phe Ser Ser
 500 505 510
 Ala Ile Leu Met Gln Ala Asp Phe Leu Ala Cys Ser Ala Asp Ala Asn
 515 520 525
 Glu Leu Leu Asp Pro Ala Gln Leu Glu Val Thr Pro Leu Ser Ser Thr
 530 535 540
 Glu Asn Tyr Pro Ile Leu Lys Val Arg Gln Ile Leu Ala Ala Leu Arg
 545 550 555 560
 Leu Arg Lys Cys Ser Leu Pro Val Trp Leu Leu Ser Trp Asn Thr Leu
 565 570 575
 Thr Gly Asn Thr Arg Ala Thr Asn Gly Trp Phe Phe Arg Gly Ala Leu
 580 585 590
 Leu Met Gln Asn Leu Leu Gly Leu Ser Glu Gln Val Trp Leu Ala Gly
 595 600 605
 Phe Trp Leu Asn Ser Gly Leu Gln Gly Glu Ala Arg Ala Asn Asn Thr
 610 615 620
 Ile Asp Thr Ser Ser Leu Ala Leu Gln Tyr Asn His Gly Leu Pro Arg
 625 630 635 640
 Pro Val Tyr Trp Val Leu Trp Leu Trp Gln Arg Leu Arg Gly Glu Val
 645 650 655
 Leu Val Asn Asp Lys Arg Val Leu Leu Thr Arg His Arg Asn Gly Tyr
 660 665 670
 Gln Leu Leu Arg Asn Val Val Phe Asn Pro Leu Leu Ser Ser
 675 680 685
 Glu Glu Ala Phe Ile Gln Arg Phe Arg Gln Gln Tyr His Leu His Leu
 690 695 700
 Lys Gly Met Arg Gly Lys Trp Arg Ile Lys Cys His Leu Phe Asp Gln
 705 710 715 720
 His Asn Gly Ala Leu Tyr Pro Leu Leu Glu Gly Val Gly Ser Glu Ser
 725 730 735
 Gly Pro Asp Glu Glu Met Trp Arg Trp Ile Ala His Lys Ala Arg Pro
 740 745 750
 Thr Leu Ser Val Arg Asp Glu Arg Leu Tyr Asp Gly Trp Gln Leu Ser
 755 760 765
 Glu Ser Leu Glu Ser Asn Ala Leu Val Leu Tyr Glu Phe Thr Pro Leu
 770 775 780
 Val Pro His Glu Ala Glu Thr Glu Glu Ile His Ser Pro Arg
 785 790 795

<210> 7810

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 7810

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Leu Leu Ile Pro Ile Arg Asn Phe Ile Arg Ser Lys Pro Pro Pro Ile
1      5      10      15
Val Pro Leu Phe Val Val Val Ser Glu Leu Leu Pro Val Asp Tyr Leu
20      25      30
Pro Leu Phe Ala Ala Leu Lys Asp Arg Pro Val Leu Val Val Gly Thr
35      40      45
Gly Glu Ile Ala Asp Arg Lys Ile Ala Phe Leu Gln Arg Ala Gly Ala
50      55      60
Gln Val Gln Ile Val Ala Glu Ala Asp Phe Ala Glu Ser Gln Ile Asp
65      70      75      80
Ser Val Val Leu Val Ile Ala Ala Thr Glu Asp Arg Ala Leu Asn Ser
85      90      95
Arg Ile Ser Asp Ala Ala Gln Ala Arg His Arg Leu Val Asn Val Val
100     105     110
Asp Asp Gln Pro Leu Cys Ser Phe Ile Phe Pro Ser Ile Val Asp Arg
115     120     125
Ser Pro Leu Leu Val Ala Ile Ser Ser Gly Gly Thr Ala Pro Val Leu
130     135     140
Ala Arg Val Leu Arg Glu Lys Ile Glu Ala Leu Leu Pro Thr Ser Leu
145     150     155     160
Gly Arg Met Ala Glu Lys Ala Ser Tyr Trp Arg Asn His Leu Lys Thr
165     170     175
Arg Leu Thr Ser Val Thr Glu Arg Arg Arg Phe Trp Glu Arg Val Phe
180     185     190
Arg Gly Arg Phe Ala Ser Leu Met Gln Ala Gly Asn Glu Thr Ala Ala
195     200     205
Gln Gln Ile Leu Glu Asp Glu Leu Asp Asn Pro Gly Ser Thr Gly Gly
210     215     220
Glu Ile Ile Leu Val Gly Ala Gly Pro Gly Asp Ala Gly Leu Leu Thr
225     230     235     240
Leu Arg Gly Leu Gln Val Leu Gln Asp Ala Asp Val Val Phe Tyr Asp
245     250     255
His Leu Val Thr Asp Gly Ile Arg Glu Leu Ile Arg Arg Asp Ala Glu
260     265     270
Gln Ile Cys Val Gly Lys Arg Ala Gly Glu His Ser Val Pro Gln His
275     280     285
Asp Thr Asn Gln Met Leu Ile Ala Ala Lys Ala Gly Lys Thr Val
290     295     300
Val Arg Leu Lys Gly Gly Asp Pro Phe Ile Phe Gly Arg Gly Gly Glu
305     310     315     320
Glu Leu Gln Ala Ala Ala Glu Ala Gly Val Pro Phe Gln Val Val Pro
325     330     335
Gly Ile Thr Ala Ala Ser Ala Val Thr Ala Tyr Ala Gly Ile Pro Leu
340     345     350
Thr His Arg Asp Tyr Ala Gln Ser Val Thr Phe Val Thr Gly His Tyr
355     360     365
Lys Ala Asp Ser Thr Pro Phe Asp Trp Ser His Leu Ala Gln Ser Arg
370     375     380
Gln Thr Leu Ala Ile Tyr Met Gly Thr Met Lys Ala Ala Asp Ile Ser
385     390     395     400
Glu Gln Leu Ile Gln His Gly Arg Asp Ala Ala Thr Pro Val Ala Val
405     410     415
Ile Ser Arg Gly Thr Arg Val Asp Gln His Val Ala Ile Gly Thr Leu
420     425     430
Gln Asp Leu Ala Thr Leu Ala Lys Asp Ala Pro Met Pro Ala Leu Ile
435     440     445
Val Val Gly Glu Val Val Gln Leu His Ser Thr Leu Ala Trp Phe Gln
450     455     460

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His Thr Thr Asp Thr Glu Gly Phe Gly Ala Ser Val Ile Asn Leu Ala
 465 470 475 480

<210> 7811

<211> 306

<212> PRT

<213> *Enterobacter cloacae*

<400> 7811

Gly Thr Val Met Asp Gln Lys Arg Leu Thr His Leu Arg Gln Leu Glu
 1 5 10 15
 Ala Glu Ser Ile His Ile Ile Arg Glu Val Ala Ala Glu Phe Ser Asn
 20 25 30
 Pro Val Met Met Tyr Ser Ile Gly Lys Asp Ser Ser Val Met Leu His
 35 40 45
 Leu Ala Arg Lys Ala Phe Tyr Pro Gly Thr Leu Pro Phe Pro Leu Leu
 50 55 60
 His Val Asp Thr Gly Trp Lys Phe Arg Glu Met Tyr Glu Phe Arg Asp
 65 70 75 80
 Arg Thr Ala Lys Ala Tyr Gly Cys Glu Leu Val His Lys Asn Pro
 85 90 95
 Glu Gly Val Ala Met Gly Ile Asn Pro Phe Val His Gly Ser Ala Lys
 100 105 110
 His Thr Asp Ile Met Lys Thr Glu Gly Leu Lys Gln Ala Leu Asn Lys
 115 120 125
 Tyr Gly Phe Asp Ala Ala Phe Gly Gly Ala Arg Arg Asp Glu Glu Lys
 130 135 140
 Ser Arg Ala Lys Glu Arg Ile Tyr Ser Phe Arg Asp Arg Phe His Arg
 145 150 155 160
 Trp Asp Pro Lys Asn Gln Arg Pro Glu Leu Trp His Asn Tyr Asn Gly
 165 170 175
 Gln Ile Asn Lys Gly Glu Ser Ile Arg Val Phe Pro Leu Ser Asn Trp
 180 185 190
 Thr Glu Leu Asp Ile Trp Gln Tyr Ile Tyr Leu Glu Asn Ile Glu Ile
 195 200 205
 Val Pro Leu Tyr Leu Ala Ala Glu Arg Pro Val Leu Glu Arg Asp Gly
 210 215 220
 Met Leu Met Met Ile Asp Asp Arg Ile Asp Leu Gln Pro Gly Glu
 225 230 235 240
 Val Ile Lys Lys Gln Met Val Arg Phe Arg Thr Leu Gly Cys Trp Pro
 245 250 255
 Leu Thr Gly Ala Val Glu Ser Ser Ala Gln Thr Leu Pro Glu Ile Ile
 260 265 270
 Glu Glu Met Leu Val Ser Thr Thr Ser Glu Arg Gln Gly Arg Val Ile
 275 280 285
 Asp Arg Asp Gln Ala Gly Ser Met Glu Leu Lys Lys Arg Gln Gly Tyr
 290 295 300
 Phe
 305

<210> 7812

<211> 478

<212> PRT

<213> *Enterobacter cloacae*

<400> 7812

Gly Ala Ala Met Asn Thr Thr Ile Ala Gln Gln Ile Ala Asp Glu Gly
 1 5 10 15
 Gly Val Glu Ala Tyr Leu His Ala Gln Gln Tyr Lys Ser Leu Leu Arg


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<210> 7813
<211> 116
<212> PRT
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<213> Enterobacter cloacae

<400> 7813

Val Thr Val Thr Gly Leu Ala Met Arg Asn Ser Glu Asn Tyr Met Ile
 1 5 10 15
 Thr Thr Gly Ser Glu Pro Leu Thr Thr Asp Asp Glu Thr Thr Trp Ser
 20 25 30
 Phe Pro Gly Ala Ile Val Gly Phe Val Ser Trp Leu Leu Ala Leu Gly
 35 40 45
 Ile Pro Phe Leu Ile Tyr Gly Gly Asn Thr Leu Phe Phe Phe Leu Tyr
 50 55 60
 Thr Trp Pro Phe Phe Leu Ala Leu Met Pro Val Ala Val Val Val Gly
 65 70 75 80
 Val Ala Leu His Ser Leu Phe Asn Gly Lys Leu Leu Tyr Ser Thr Leu
 85 90 95
 Ile Thr Ile Ala Thr Val Val Val Ile Phe Gly Leu Leu Phe Leu Trp
 100 105 110
 Leu Met Gly
 115

<210> 7814

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 7814

Ser Arg Gly Ala Ala Gly Glu Gly Gly Gln Met Thr Asp Phe Asp Asn
 1 5 10 15
 Leu Thr Tyr Leu His Gly Glu Pro Gln Gly Lys Gly Leu Leu Lys Ala
 20 25 30
 Asn Pro Glu Asp Phe Val Val Val Glu Asp Leu Gly Phe Glu Pro Asp
 35 40 45
 Gly Glu Gly Glu His Ile Leu Val Arg Ile Leu Lys Asn Gly Cys Asn
 50 55 60
 Thr Arg Phe Val Ala Asp Ala Leu Ala Lys Phe Leu Asn Ile His Ala
 65 70 75 80
 Arg Glu Val Ser Phe Ala Gly Gln Lys Asp Lys His Ala Val Thr Glu
 85 90 95
 Gln Trp Leu Cys Ala Arg Val Pro Gly Asn Ala Met Pro Asp Leu Ser
 100 105 110
 Lys Phe Glu Leu Glu Gly Cys Lys Val Leu Glu Tyr Ala Arg His Lys
 115 120 125
 Arg Lys Leu Arg Leu Gly Ala Leu Lys Gly Asn Ala Phe Thr Leu Val
 130 135 140
 Leu Arg Glu Val Thr Glu Arg Glu Asp Val Glu Lys Arg Leu Lys Ala
 145 150 155 160
 Ile Asn Glu Arg Gly Val Pro Asn Tyr Phe Gly Ala Gln Arg Phe Gly
 165 170 175
 Ile Gly Gly Ser Asn Leu Leu Gly Ala Leu Arg Trp Ala Gln Ser Gly
 180 185 190
 Ala Pro Val Arg Asp Arg Asn Lys Arg Ser Phe Trp Leu Ser Ala Ala
 195 200 205
 Arg Ser Ala Leu Phe Asn Gln Ile Val Ser Glu Arg Leu Lys Lys Pro
 210 215 220
 Asp Ala Asn Gln Val Val Val Gly Asp Ala Leu Gln Leu Ala Gly Arg
 225 230 235 240
 Gly Ser Trp Phe Val Ala Thr Ala Asp Glu Met Ala Asp Val Gln Ser
 245 250 255
 Arg Val Asp Ala Lys Thr Leu Met Ile Thr Ala Ala Leu Pro Gly Ser
 260 265 270
 Gly Asp Trp Gly Thr Gln Gly Glu Ala Leu Ala Ala Glu Gln Ser Ala

275 280 285
 Val Ala Asp Ala Pro Glu Leu Gln Ser Leu Leu Val Arg Glu Lys Val
 290 295 300
 Glu Ala Ala Arg Arg Ala Met Leu Leu Tyr Pro Gln Gln Leu Ser Trp
 305 310 315 320
 Asn Trp Trp Asp Asp Val Thr Val Glu Leu Arg Phe Trp Leu Pro Ala
 325 330 335
 Gly Ser Phe Ala Thr Ser Val Val Arg Glu Leu Ile Asn Thr Ser Gly
 340 345 350
 Asp Tyr Ala Asn Ile Ala Glu
 355 360

<210> 7815

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 7815

Cys Gly Val Gly Leu Val Arg Ser Gly Arg Ser Glu Arg Ala Met Val
 1 5 10 15
 Ser Lys Arg Val Gln Thr Leu Leu Glu Gln Leu Arg Ala Gln Gly Ile
 20 25 30
 Ala Asn Glu Gln Val Leu Asp Ala Leu Ala Gln Val Pro Arg Glu Lys
 35 40 45
 Phe Val Asp Glu Ala Phe Glu His Lys Ala Trp Glu Asn Val Ala Leu
 50 55 60
 Pro Ile Gly Gln Gly Gln Thr Ile Ser Gln Pro Tyr Met Val Ala Arg
 65 70 75 80
 Met Thr Glu Leu Leu Glu Leu Thr Pro Asp Ser Arg Val Leu Glu Ile
 85 90 95
 Gly Thr Gly Ser Gly Tyr Gln Thr Ala Ile Leu Ala His Leu Val His
 100 105 110
 His Val Cys Ser Arg Gly Thr Asp
 115 120

<210> 7816

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 7816

Gly Leu Thr Met Phe Ser Ala Met Arg His Arg Phe Val Ala Leu Ala
 1 5 10 15
 Leu Gly Val Cys Phe Ile Leu Pro Ala Gln Ala Lys Asn Pro Ser Tyr
 20 25 30
 Gly Glu Ile Ala Ser Met Gln Ala Arg His Ile Ala Thr Val Phe Pro
 35 40 45
 Gly Arg Met Thr Gly Thr Pro Ala Glu Met Leu Ser Ala Asp Tyr Ile
 50 55 60
 Arg Gln Gln Phe Ala Asp Met Gly Tyr Glu Ser Asp Ile Arg Ala Phe
 65 70 75 80
 His Ser Arg Tyr Ile Tyr Thr Thr Arg Asn Lys Thr Gln Asn Trp His
 85 90 95
 Asn Val Thr Gly Ser Thr Val Ile Ala Ala His Glu Gly Lys Thr Ala
 100 105 110
 Glu Gln Ile Ile Ile Met Ala His Leu Asp Thr Tyr Thr Pro Leu Ser
 115 120 125
 Asp Ala Asp Val Asp Asn Asn Leu Gly Gly Leu Thr Leu Gln Gly Leu
 130 135 140
 Asp Asp Asn Ala Ala Gly Leu Gly Val Met Leu Glu Leu Ala Glu Arg
 145 150 155 160

Leu Lys Asn Ile Pro Thr Lys Tyr Ser Ile Arg Phe Val Ala Thr Ser
 165 170 175
 Gly Glu Glu Glu Gly Lys Leu Gly Ala Glu Asn Leu Leu Lys Arg Met
 180 185 190
 Ser Ala Glu Glu Lys Lys Asn Thr Leu Leu Val Ile Asn Leu Asp Asn
 195 200 205
 Leu Ile Val Gly Asp Lys Leu Tyr Phe Asn Ser Gly Gln Ser Thr Pro
 210 215 220
 Ser Ser Val Arg Lys Leu Thr Arg Asp Arg Ala Leu Ala Leu Ala Arg
 225 230 235 240
 Thr His Gly Val Tyr Ala Ala Thr Asn Pro Gly Gly Asn Pro Glu Tyr
 245 250 255
 Pro Lys Gly Thr Gly Cys Cys Asn Asp Gly Glu Val Phe Asp Lys Ala
 260 265 270
 Gly Ile Pro Val Leu Tyr Val Glu Ala Thr Asn Trp Ala Leu Gly Lys
 275 280 285
 Lys Asp Gly Tyr Gln Gln Arg Ser Lys Ser Lys Ala Phe Pro Asp Gly
 290 295 300
 Thr Ser Trp His Asp Val Arg Leu Asp Asn Gln Gln His Ile Asp Lys
 305 310 315 320
 Ala Leu Pro Gln Arg Ile Glu His Arg Ser Arg Asp Val Val Lys Val
 325 330 335
 Met Leu Pro Leu Val Lys Glu Leu Ala Lys Ala Gly Lys Ala
 340 345 350

<210> 7817

<211> 431

<212> PRT

<213> *Enterobacter cloacae*

<400> 7817

Leu Asn Cys Met Lys Asn Asn Gln Asn Lys Ala Val Ala Leu Gln Gln
 1 5 10 15
 Lys Ile Ala Phe Ser Gly Ser Thr Ile Val Ile Asp Ser Lys Leu Ser
 20 25 30
 Ser Phe Gly Arg Lys Arg Ile Thr Lys Met Thr His Pro Ile Ile Glu
 35 40 45
 Ala Leu Arg Gly Asn Glu Ala Arg Phe Thr Glu Leu Arg Arg Tyr Phe
 50 55 60
 His Gln His Pro Glu Ile Gly Phe Glu Glu His Asn Thr Ser Asp Arg
 65 70 75 80
 Val Ala Ala Leu Leu Gln Glu Trp Gly Tyr Glu Val His Arg Gly Leu
 85 90 95
 Ala Lys Thr Gly Val Val Gly Thr Leu Lys Val Gly Asn Gly His Lys
 100 105 110
 Arg Leu Gly Leu Arg Ala Asp Met Asp Ala Leu Pro Met Gln Glu Asn
 115 120 125
 Asn Gly Lys Ala Trp Ser Ser Thr Val Glu Gly Lys Phe His Gly Cys
 130 135 140
 Gly His Asp Gly His Thr Thr Thr Leu Leu Tyr Ala Ala Glu Tyr Leu
 145 150 155 160
 Ala Arg Thr Arg Asn Phe Asn Gly Thr Leu His Leu Ile Phe Gln Pro
 165 170 175
 Ala Glu Glu Leu Leu Tyr Gly Gly Arg Val Met Val Glu Asp Gly Leu
 180 185 190
 Phe Asp Leu Phe Pro Cys Asp His Ile Phe Gly Leu His Asn Met Pro
 195 200 205
 Ser Gln Pro Leu Gly Lys Ile Gly Leu Arg Asp Gly Ala Met Met Ala
 210 215 220
 Ser Ser Asp Thr Leu His Ile Glu Val Asn Gly Val Gly Gly His Gly
 225 230 235 240

Ala Val Pro Glu His Thr Val Asp Ala Thr Leu Val Ala Cys His Ile
 245 250 255
 Thr Ile Ala Leu Gln Ser Ile Val Ser Arg Asn Ile Thr Pro Phe Gln
 260 265 270
 Pro Ala Val Val Thr Val Gly Ser Ile Gln Ala Gly His Ala Pro Asn
 275 280 285
 Ile Ile Asn Asp Lys Val Leu Met Lys Leu Thr Val Arg Thr Leu Asp
 290 295 300
 Glu Arg Val Arg Gln Thr Val Leu Gln Arg Ile His Asp Ile Ala Val
 305 310 315 320
 Ala Gln Ala Glu Ser Phe Asn Ala Thr Ala Thr Ile Arg His Ile Asn
 325 330 335
 Gly Ser Pro Val Leu Lys Asn Asn Pro Gln Ala Asn Glu Met Val Arg
 340 345 350
 Ser Val Ala Thr Asp Leu Phe Gly Gln Asp Ala Val Ala Glu Val Asn
 355 360 365
 Ala Phe Met Gly Ser Glu Asp Phe Ala Phe Met Leu Glu Lys Asn Pro
 370 375 380
 Asn Gly Cys Tyr Phe Thr Leu Gly Ala Gly Asp Glu Pro Asp Arg Cys
 385 390 395 400
 Met Val His Asn Pro Gly Tyr Asp Phe Asn Asn Asn Ile Leu Leu Thr
 405 410 415
 Gly Ala Ala Leu Trp Ala Ala Leu Thr Glu His Asn Leu Arg
 420 425 430

<210> 7818

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 7818

Phe Ala Pro Ser Arg Glu Gly Cys Thr Met Ser Thr Val Ser Leu Thr
 1 5 10 15
 Gly Ala Ser Ala Tyr Ala Gly Asn Asp Arg Leu Leu Ala Gly Ile Val
 20 25 30
 Met Ser Val Leu Thr Phe Trp Leu Phe Ala Gln Ser Val Ile Asn Val
 35 40 45
 Val Pro Ala Met Gln Asn Ser Leu Asp Ile Ala Leu Glu Thr Leu Thr
 50 55 60
 Leu Ala Val Ser Leu Ser Ala Leu Phe Ser Gly Cys Phe Val Val Ala
 65 70 75 80
 Cys Gly Gly Phe Ala Asp Lys Tyr Gly Arg Met Arg Leu Thr Met Ile
 85 90 95
 Gly Leu Ile Leu Ser Met Ile Gly Ser Gly Leu Leu Phe Ile Ser Trp
 100 105 110
 Glu Pro Val Leu Phe Leu Leu Gly Arg Ala Ile Gln Gly Leu Ser Ala
 115 120 125
 Ala Cys Ile Met Pro Ala Thr Leu Ala Leu Ile Lys Thr Trp Tyr Asp
 130 135 140
 Gly Lys Ala Arg Gln Arg Ala Ile Ser Phe Trp Val Ile Gly Ser Trp
 145 150 155 160
 Gly Gly Ser Gly Leu Ser Ser Phe Val Gly Gly Ala Ile Ala Thr Thr
 165 170 175
 Leu Gly Trp Arg Trp Ile Phe Ile Phe Ser Met Val Val Ala Leu Ala
 180 185 190
 Ala Leu Leu Ile Ile Arg Ala Thr Pro Glu Ser Arg Ser His Asp Ala
 195 200 205
 Cys Arg His Lys Leu Asp Ile Ser Gly Leu Val Ser Phe Val Leu Met
 210 215 220
 Leu Val Leu Phe Asn Leu Phe Ile Ser Lys Gly His Ser Trp Gly Trp
 225 230 235 240

Ser Ser Ser Leu Ser Leu Leu Val Leu Cys Gly Ala Val Ile Ala Leu
 245 250 255
 Met Cys Phe Val Val Thr Gly Arg Arg Lys Gly Asp Ala Ala Leu Ile
 260 265 270
 Asp Phe Ala Leu Phe Lys Asn Arg Ala His Ser Ala Ser Val Phe Ser
 275 280 285
 Asn Phe Leu Leu Asn Gly Cys Ile Gly Thr Met Met Ile Ala Ser Ile
 290 295 300
 Trp Leu Gln Gln Gly His His Leu Ser Pro Leu Gln Thr Gly Met Met
 305 310 315 320
 Thr Leu Gly Tyr Leu Val Thr Val Leu Ala Met Ile Arg Val Gly Glu
 325 330 335
 Lys Leu Leu Gln Arg Tyr Gly Ala Arg Leu Pro Met Met Thr Gly Pro
 340 345 350
 Leu Leu Thr Ala Thr Gly Ile Ser Leu Ile Ser Cys Thr Phe Leu Ser
 355 360 365
 Lys Glu Val Tyr Ile Val Thr Val Phe Leu Ser Asn Ile Leu Phe Gly
 370 375 380
 Leu Gly Leu Gly Cys Tyr Ala Thr Pro Ser Thr Asp Thr Ala Val Met
 385 390 395 400
 Asn Ala Pro Glu Asn Lys Val Gly Val Ala Ser Gly Ile Tyr Lys Met
 405 410 415
 Gly Ser Ser Leu Gly Gly Ala Met Gly Ile Ala Val Thr Ala Ser Leu
 420 425 430
 Tyr Ala Leu Trp Leu Pro Met Gly Thr Ala Ser Ala Ala Gln Tyr Ala
 435 440 445
 Leu Leu Phe Asn Ser Ala Ile Cys Leu Gly Ser Ala Val Val Thr Trp
 450 455 460
 Ala Leu Leu Pro Thr Thr Lys Ala Pro Arg
 465 470 475

<210> 7819

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 7819

Leu Ser Phe Leu Thr Ile Lys Ala Ile Lys Gln Leu Ser Glu Ile Lys
 1 5 10 15
 Gln Gln Lys Ser Ile Asn Thr Met Asn Thr Arg Arg Arg Gln Phe Arg
 20 25 30
 Ala Val Leu Val Asn Asp Lys Asn Cys Ala Phe Arg Tyr Ala Ala
 35 40 45
 Val Phe Ser Ala Phe Leu Arg Ala Met Met Ser Thr Thr Leu Phe Lys
 50 55 60
 Asp Phe Thr Phe Glu Ala Ala His His Leu Pro His Val Pro Ala Gly
 65 70 75 80
 His Lys Cys Gly Arg Leu His Gly His Ser Phe Met Val Arg Leu Glu
 85 90 95
 Ile Thr Gly Glu Val Asp Pro His Thr Gly Trp Ile Met Asp Phe Ala
 100 105 110
 Glu Leu Lys Ala Ala Phe Lys Pro Thr Tyr Asp Arg Leu Asp His Tyr
 115 120 125
 Tyr Leu Asn Asp Ile Pro Gly Leu Glu Asn Pro Thr Ser Glu Val Leu
 130 135 140
 Ala Lys Trp Ile Trp Asp Gln Met Lys Pro Leu Val Pro Leu Leu Ser
 145 150 155 160
 Ala Val Met Ile Lys Glu Thr Cys Thr Ala Gly Cys Val Tyr Arg Gly
 165 170 175
 Glu

<210> 7820
 <211> 108
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 7820
 His Phe Arg Ala Ile Ser Trp Leu His Ile Asn Gly Arg Glu Trp Lys
 1 5 10 15
 His Ile Arg Glu Val Leu Ile Tyr Ala Phe Ile Tyr Glu Gly Val Pro
 20 25 30
 Ser Trp Asp Lys Thr Asp Gly Val Val Thr Ile His Val Pro Asp Gln
 35 40 45
 Pro Pro Ile Glu Thr Arg Leu Thr Glu Gly Glu Asn Arg Arg Thr Leu
 50 55 60
 Cys Ala Ile Ala Arg Leu Val Asn Glu Asn Gly Ala Ile Lys Val Glu
 65 70 75 80
 Arg Ile Asn Gln Tyr Phe Lys Gly Gln Asp Glu Met Asp Arg Ala Phe
 85 90 95
 Gly Trp Gly Phe Arg Trp Ser Ala Gly Ser Lys
 100 105

<210> 7821
 <211> 102
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 7821
 Gly Gln Leu Met Ile Asn Asn Asp Tyr Pro Leu Asn Thr Leu Asn Gln
 1 5 10 15
 Leu Arg Pro Leu Ile Gly Phe Arg Lys Ala Asn Gly Leu Thr Gln
 20 25 30
 Lys Asp Leu Ser Glu Arg Leu Gly Val Thr Gln Gln Thr Tyr Ser Arg
 35 40 45
 Leu Glu Ala Asn Pro Ala Ser Ala Ser Ile Glu Arg Leu Phe Lys Val
 50 55 60
 Phe Thr Val Leu Gly Val Lys Ile Ser Phe Ser Ser Ala Thr Thr Ser
 65 70 75 80
 Ser Glu Arg Lys Gln Thr Glu Asp Ile Tyr Lys Leu Asn Ser Pro Ala
 85 90 95
 Pro Gln Glu Asp Trp
 100

<210> 7822
 <211> 276
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 7822
 Glu Glu Ile Lys Met Arg Glu Pro Arg Pro Arg His Thr Leu Gln Val
 1 5 10 15
 Ile Arg Val Pro Ser Leu Glu Val Gln Asp Leu Gly Leu Thr Ser Phe
 20 25 30
 Asp Ser Trp Leu Asp Glu His Gly Tyr Asp Lys Thr Asn Ala Arg Asn
 35 40 45
 Asn Arg Thr Ile Trp Ala Arg Glu Gly Gly Trp His Leu Lys Arg Cys
 50 55 60
 Arg Asn Leu Glu Thr Gly Thr Asp Asp Phe Trp Phe Ile Ala Phe Asp
 65 70 75 80
 Gly Lys Gly Gly Lys Ile Tyr Pro Leu Lys Thr Gln Arg Asp Tyr Arg
 85 90 95

Ala Ala Tyr Arg Lys Leu Glu Ala Glu Gly Tyr Ala Pro Ala Val Ile
 100 105 110
 Glu Gln Met Thr Thr Gly Ala Ala Tyr Asn Leu Ala Tyr Pro Arg Ser
 115 120 125
 Thr Leu Lys Gln Val Glu Thr Ala Thr Ser Glu Pro Met Arg Lys Pro
 130 135 140
 Asp Val Asp Ile Gln Gly Glu His Cys Glu Arg Val Val Thr Gln Arg
 145 150 155 160
 Ser Gly Val Ala Gln Gly Lys Phe Lys Ala Leu Ile Glu Asn Phe
 165 170 175
 Ala Gly Arg Cys Ala Val Thr Gly Trp Val Asn Gly Gly Val Leu Asp
 180 185 190
 Ala Ala His Ile Glu His Gly Thr Arg Tyr Asn Pro Ser Asn Gly Ile
 195 200 205
 Leu Met Thr Pro Thr Met His Ala Leu Phe Asp Ala Asp Leu Met Gly
 210 215 220
 Ile Asp Pro Ala Thr Leu Thr Val His Phe Lys Pro Gly Ile Glu Val
 225 230 235 240
 Gly Glu Leu Phe Glu Gly Arg Lys Ile Thr Pro Leu Val Tyr Asp Leu
 245 250 255
 Asp Leu Glu Arg Leu Ala Val Arg Trp Ala Glu Tyr Gln Gly Leu Ala
 260 265 270
 Gln Asp Gln
 275

<210> 7823

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7823

Trp Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
 1 5 10 15
 Arg Trp Pro Gln His Asp Phe Pro Pro Phe Lys Lys Leu Arg Pro Gln
 20 25 30
 Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
 35 40 45
 Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
 50 55 60
 Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
 65 70 75 80
 Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
 85 90 95
 Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
 100 105 110
 Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
 115 120 125
 Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
 130 135 140
 Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
 145 150 155 160
 Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 7824

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 7824

Thr Lys Thr Ala Gln Leu Lys Ser Ser Glu Leu Thr Ser Thr Ser Lys

1 5 10 15
 Ala Arg Thr Lys Trp Thr Gly His Leu Ala Gly Asp Phe Ala Gly Ala
 20 25 30
 Pro Val Leu Asn Asn Thr Ala Thr Lys Glu Thr Gly Met Ser Phe Phe
 35 40 45
 Asp Lys Val Lys Gly Ala Ile Asn Ser Gly Arg Asp Glu Leu Thr Arg
 50 55 60
 Gln Val Gly Arg Phe Lys Asn Lys Lys Phe Met Gln Gly Thr Val Ala
 65 70 75 80
 Val Cys Ala Arg Ile Ala Val Ser Ser Asp Gly Val Ser Ser Glu Glu
 85 90 95
 Lys Gln Lys Met Met Gly Phe Leu Arg Ser Ser Glu Glu Leu Lys Val
 100 105 110
 Phe Asp Thr Asn Glu Val Ile Glu Phe Phe Asn Lys Leu Val Ser Ser
 115 120 125
 Phe Asp Phe Asp Val Glu Ile Gly Lys Gly Glu Thr Met Lys Tyr Ile
 130 135 140
 Leu Ala Leu Lys Asp Gln Pro Glu Ala Ala Gln Leu Ala Leu Arg Val
 145 150 155 160
 Gly Ile Ala Val Ala Lys Ser Asp Gly Asn Phe Asp Gln Asp Glu Lys
 165 170 175
 Leu Ala Ser Arg Glu Ile Ala Ile Ala Leu Gly Phe Asp Pro Ala Glu
 180 185 190
 Phe Gly Leu
 195

<210> 7825

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 7825

Leu Phe Tyr Pro Gly Leu Leu Met Gln Pro Ser Phe Asn Cys Leu Gln
 1 5 10 15
 Glu Leu Lys Met Ala Val Ser Leu Val Lys Gly Gly Asn Val Ser Leu
 20 25 30
 Thr Lys Glu Ala Pro Thr Met Asn Val Ala Met Val Gly Leu Gly Trp
 35 40 45
 Asp Ala Arg Val Thr Asp Gly Gln Gly Phe Asp Leu Asp Ala Ser Val
 50 55 60
 Phe Ala Val Gly Glu Asp Gly Lys Val Leu Ser Asp Ala His Phe Ile
 65 70 75 80
 Phe Phe Asn Asn Lys Thr Ser Pro Asp Gly Ala Val Glu His Gln Gly
 85 90 95
 Asp Asn Arg Thr Gly Glu Gly Asp Gly Asp Glu Gln Val Lys Ile
 100 105 110
 Asp Leu Thr Lys Val Ser Ala Asp Ile Lys Lys Leu Val Phe Ala Val
 115 120 125
 Thr Ile Tyr Asp Ala Glu Ala Arg Lys Gln Asn Phe Gly Met Val Ser
 130 135 140
 Asn Ser Phe Met Arg Val Tyr Asn Asn Asp Asn Gly Thr Glu Ile Ala
 145 150 155 160
 Arg Phe Asp Leu Ser Glu Asp Ala Ser Thr Glu Thr Ala Met Val Phe
 165 170 175
 Gly Glu Leu Tyr Arg His Gly Ala Glu Trp Lys Phe Lys Ala Val Gly
 180 185 190
 Gln Gly Phe Ala Gly Gly Leu Ala Ala Leu Ala Ser Gln His Gly Val
 195 200 205
 Asn Ile
 210

<210> 7826

<211> 421

<212> PRT

<213> Enterobacter cloacae

<400> 7826

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Ser Lys Ile Arg Arg Val Asn Val Asn Leu Gln Ser Gly Gln Asn Ile
1      5      10      15
Pro Leu Gln Gln Ser Ala Ile Arg Leu Asn Leu Gln Tyr Pro Thr Lys
20      25      30
Ser Gly Phe Lys Gly Glu Pro Asp Thr Cys Leu Phe Leu Leu Asn Ala
35      40      45
Gln Gly Lys Val Ser Gly Asp Ser Asp Phe Ile Phe Tyr Asn Asn Leu
50      55      60
Ser Ser Pro Glu Gly Ala Val Lys Leu Val Thr Gly Ser Gln Gln Ser
65      70      75      80
Ser Ile Glu Ile Ala Leu Asp Arg Val Pro Ala Asn Ile Ser Lys Ile
85      90      95
Ala Ile Thr Val Val Ile Asp Gly Glu Asp Thr Ile Ser Gly Leu Ser
100     105     110
Ser Leu Ser Met Gln Ala Gln Gly Ile Ala Glu Phe Gln Ala Glu Thr
115     120     125
Gln Gly Arg Ser Glu Lys Ala Ile Ile Leu Gly Glu Val Tyr Arg His
130     135     140
Asn Gly Ala Trp Lys Leu Arg Ala Leu Gly Gln Gly Phe Asn Gly Gly
145     150     155     160
Leu Glu Pro Leu Ala Ile Ser Tyr Gly Val Asp Val Ala Gln Pro Ala
165     170     175
Pro Gln Pro Ala Lys Pro Ala Arg Ile Ser Leu Glu Lys Lys Leu Glu
180     185     190
Thr Arg Ser Pro Arg Leu Val Ser Leu Ala Lys Lys Ala Ser Val Ser
195     200     205
Leu Thr Lys Asn Lys Leu Asp Thr Leu Glu Ala Ala Val Ala Phe Val
210     215     220
Leu Asp Ala Ser Gly Ser Met Ser Gly Gln Phe Ser Lys Gly Asn Val
225     230     235     240
Gln Ser Val Leu Asp Arg Ile Ala Val Leu Ala Ala Gln Phe Asp Asp
245     250     255
Asp Gly Glu Met Asp Val Trp Gly Phe Gly Glu Lys His Lys Tyr
260     265     270
Pro Asn Val Thr Leu Asp Asn Leu Asp Thr Tyr Ile Gln Ser Ile Arg
275     280     285
Gly Ala Gly Lys Arg Ser Ala Trp Glu Asn Leu Pro Gly Leu Gly Gly
290     295     300
Thr Asn Asn Glu Pro Pro Val Met Glu Glu Ile Val Asp Tyr Phe Lys
305     310     315     320
Asp Ser Lys Ile Pro Val Tyr Val Val Phe Ile Thr Asp Gly Gly Ile
325     330     335
Ser Lys Thr Arg Ala Ile Lys Asp Ala Ile Arg Arg Ser Ala Asn Tyr
340     345     350
Pro Ile Phe Trp Lys Phe Val Gly Leu Gly Gly Ser Tyr Gly Ile
355     360     365
Leu Lys Asn Leu Asp Asp Phe Thr Asp Arg Arg Val Asp Asn Thr His
370     375     380
Phe Phe Ala Met Asp Asp Phe Gly Ser Ile Ser Asp Glu Lys Leu Tyr
385     390     395     400
Asp Asn Leu Leu Glu Glu Phe Arg Pro Trp Ile Asp Glu Thr Lys Arg
405     410     415
Leu Gly Ile Leu
420

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<210> 7827

<211> 453

<212> PRT

<213> Enterobacter cloacae

<400> 7827

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Ile His Leu His His Arg Arg Ile Gly Asn Tyr Met Ser Arg Lys Gln
1      5      10      15
Gln Arg Leu Val Ile Trp Met Asn Gly Ile Lys Ile Gly Tyr Trp Glu
20      25      30
Lys Ser Lys Gly Val Asp Ser Leu Glu Tyr Leu Pro Glu Trp Val Ala
35      40      45
Asp Glu Gln Gly Arg Pro Leu Ser Leu Ser Leu Pro Phe Thr Pro Gly
50      55      60
Asn Gln Val Trp Arg Gly Asn Val Val Arg Asp Tyr Phe Asp Asn Leu
65      70      75      80
Leu Pro Asp Ser Glu Gly Ile Arg Arg Arg Leu Ala Met Arg Tyr Lys
85      90      95
Ala Asp Ser Leu Glu Pro Phe Asp Leu Leu Thr Glu Leu Gly Lys Asp
100      105      110
Cys Val Gly Ala Ile Gln Leu Leu His Asp Gly Asp Glu Pro Thr Asp
115      120      125
Leu Tyr Ser Val Lys Tyr His Pro Leu Thr Glu Ser Glu Ile Ala Ala
130      135      140
Thr Leu Arg Asn Thr Thr Glu Thr Leu Leu Pro Gly Arg Pro Glu Asp
145      150      155      160
Asn Asp Asp Leu Arg Leu Ser Ile Ala Gly Ala Gln Glu Lys Thr Ala
165      170      175
Leu Leu Trp His Glu Asp Arg Trp Cys Met Pro Glu Gly Asn Thr Pro
180      185      190
Thr Thr His Ile Phe Lys Leu Pro Leu Gly Leu Val Gly Asn Met Lys
195      200      205
Ala Asp Met Ser Ser Ser Val Glu Asn Glu Trp Leu Cys Ser Val Leu
210      215      220
Leu Asp Gln Tyr Gly Leu Pro Val Ala Arg Thr Gln Ile Ala His Phe
225      230      235      240
Glu Asp Gln Lys Ala Leu Val Val Glu Arg Phe Asp Arg Lys Trp Ser
245      250      255
Gly Asp Gly Gln Trp Ile Ile Arg Leu Pro Gln Glu Asp Met Cys Gln
260      265      270
Ala Leu Gly Val Ser Pro Leu Arg Lys Tyr Gln Ala Asp Gly Gly Pro
275      280      285
Gly Ile Ser Glu Ile Met Glu Val Leu Ser Asn Ser Asp Arg Ala Glu
290      295      300
Arg Asp Lys Ala Gln Phe Phe Met Thr Gln Ile Ile Phe Trp Met Met
305      310      315      320
Ala Ala Thr Asp Gly His Ala Lys Asn Phe Ser Ile Ser Ile Gly Pro
325      330      335
Gln Gly Arg Tyr His Leu Thr Pro Leu Tyr Asp Val Leu Ser Ala Trp
340      345      350
Pro Val Ile Gly His Gly Asn Asn Gln Ile Ser Trp Gln Lys Cys Lys
355      360      365
Leu Ala Met Ala Val Arg Gly Ser Ser Asn Tyr Tyr Gln Ile Tyr Arg
370      375      380
Ile Gln Arg Arg His Trp Ile Arg His Gly Glu Ile Thr Gly Leu Ser
385      390      395      400
Lys Gln Gln Thr Glu Ala Met Ile Glu Glu Ile Ile Ala Arg Thr Pro
405      410      415
Gly Val Ile Glu Arg Val Ser Gly Leu Leu Pro Asp Gln Phe Pro Gln
420      425      430
Gln Leu Ala Glu Ser Ile Phe Asp Gly Met Arg Gln Gln Cys Arg Arg

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435
Leu Ala Glu Lys
450

440

445

<210> 7828
<211> 95
<212> PRT
<213> Enterobacter cloacae

<400> 7828
Gly Ala Pro Val Ala Ser Val Ser Ile Ser Cys Pro Ser Cys Ser Ala
1 5 10 15
Thr Asp Gly Val Val Arg Asn Gly Lys Ser Thr Ala Gly His Gln Arg
20 25 30
Tyr Leu Cys Ser His Cys Arg Lys Thr Trp Gln Leu Gln Phe Thr Tyr
35 40 45
Thr Ala Ser Gln Pro Gly Thr His Gln Lys Ile Ile Asp Met Ala Met
50 55 60
Asn Gly Val Gly Cys Arg Ala Thr Ala Arg Ile Met Gly Val Gly Leu
65 70 75 80
Asn Thr Ile Phe Arg His Leu Lys Asn Ser Gly Arg Ser Arg
85 90 95

<210> 7829
<211> 348
<212> PRT
<213> Enterobacter cloacae

<400> 7829
Asn Met Val Ser Thr His Ile Gly Phe Pro Thr Glu Thr Val Ile Val
1 5 10 15
Phe Ile Ala Leu Ser Val Gly Ala Ile Phe Ile Asp Leu Phe Met His
20 25 30
Arg Asp Asp Lys Pro Ile Ser Leu Lys Ser Ala Ala Leu Trp Ser Val
35 40 45
Phe Trp Val Val Val Ala Met Ala Phe Ala Gly Phe Leu Tyr Ile His
50 55 60
His Gly Ala Glu Val Ala Ser Leu Phe Val Thr Gly Tyr Ala Leu Glu
65 70 75 80
Lys Val Leu Ser Val Asp Asn Leu Phe Val Met Met Ala Ile Phe Ser
85 90 95
Trp Phe Ala Val Pro Asp Arg Tyr Arg His Arg Val Leu Tyr Trp Gly
100 105 110
Ile Ile Gly Ala Ile Val Phe Arg Gly Ile Phe Val Ala Ile Gly Thr
115 120 125
Ser Leu Leu Ser Leu Gly Pro Tyr Val Glu Val Val Phe Ala Ile Ile
130 135 140
Val Ala Trp Thr Ala Val Met Met Leu Lys Ser Gly Asp Asp Asp Asp
145 150 155 160
Glu Ile Glu Asp Tyr Ser Gln His Leu Ala Tyr Arg Met Val Lys Arg
165 170 175
Phe Phe Pro Ile Trp Pro Lys Leu Arg Gly His Ala Phe Leu Leu Asn
180 185 190
Gln Lys Glu Val Asp Ala Glu Leu Ala Lys Pro Glu Asn Ser Asp Val
195 200 205
Thr Ile Gly Arg Gly Lys Lys Ala Ala Leu Tyr Ala Thr Pro Leu Phe
210 215 220
Leu Cys Val Ala Val Val Glu Leu Ser Asp Val Met Phe Ala Phe Asp
225 230 235 240
Ser Val Pro Ala Ile Ile Ala Val Ser Arg Glu Pro Leu Ile Val Tyr
245 250 255

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Ser Ala Met Met Phe Ala Ile Leu Gly Leu Arg Thr Leu Tyr Phe Val
                260                265                270
Leu Glu Ala Leu Lys Gln Tyr Leu Val His Leu Glu Lys Ala Val Ile
                275                280                285
Val Leu Leu Phe Phe Ile Ala Ala Lys Leu Gly Leu Asn Ala Thr Asp
                290                295                300
His Ile Trp His His Gly Tyr Ser Ile Ala Ala Thr Thr Ser Leu Tyr
                305                310                315                320
Val Val Leu Gly Val Leu Ala Leu Gly Ile Leu Ala Ser Val Met Phe
                325                330                335
Pro Gly Lys Pro Glu Ser Glu Glu Lys Gly Ser
                340                345

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<210> 7830

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 7830

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Thr Ile Thr Asn Arg Arg Gly Tyr Phe Met Ser Val Ser Leu Ser Lys
1                5                10                15
Gly Gly Asn Val Ser Leu Ser Lys Ala Ala Pro Ser Met Lys Asn Val
                20                25                30
Leu Val Gly Leu Gly Trp Asp Ala Arg Ser Thr Asp Gly Gln Asp Phe
                35                40                45
Asp Leu Asp Ala Ser Ala Phe Leu Leu Ala Ser Asn Gly Lys Val Arg
                50                55                60
Gly Asp Ser Asp Phe Ile Phe Tyr Asn Asn Leu Thr Ser Ser Asp Gly
65                70                75                80
Ser Val Thr His Thr Gly Asp Asn Arg Thr Gly Glu Gly Asp Gly Asp
                85                90                95
Asp Glu Ser Leu Lys Ile Lys Leu Asp Ala Val Pro Ser Glu Val Asp
                100                105                110
Lys Ile Ile Phe Val Val Thr Ile His Asp Ala Gln Ala Arg Arg Gln
                115                120                125
Ser Phe Gly Gln Val Ser Gly Ala Phe Ile Arg Leu Val Asn Asp Asp
                130                135                140
Asn Gln Thr Glu Val Ala Arg Tyr Asp Leu Thr Glu Asp Ala Ser Thr
145                150                155                160
Glu Thr Ala Met Leu Phe Gly Glu Leu Tyr Arg His Asn Gly Glu Trp
                165                170                175
Lys Phe Arg Ala Val Gly Gln Gly Tyr Ala Gly Gly Leu Ala Ser Val
                180                185                190
Cys Ala Gln Tyr Gly Ile Asn Ala Ser
                195                200

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<210> 7831

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 7831

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Cys Cys Gln Leu Thr Asp Leu Val Tyr Asp Gly Val Phe Glu Val Leu
1                5                10                15
Gln Trp Leu Leu Phe Leu Ser Ala Val Pro Pro Val Gln Leu Leu Thr
                20                25                30
Gly Trp Cys Val Thr Ala Lys Ala Pro Pro Asp Ile Ser Ala Ile Ser
                35                40                45
Ala Leu Thr Ala Val Lys His Gly Asn Cys Ser Ser Leu Thr Pro Leu
                50                55                60
Leu Asn Pro Val Arg Thr Arg Lys Ser Leu Ile Trp Pro

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65

70

75

<210> 7832

<211> 681

<212> PRT

<213> *Enterobacter cloacae*

<400> 7832

Gly Met Thr Lys Arg Leu Thr Trp Glu Gln Lys Ser Ile Val Ser His
 1 5 10 15
 Asp Thr Gly His Ala Leu Val Lys Ala Val Pro Gly Ser Gly Lys Thr
 20 25 30
 Thr Thr Leu Val Lys Arg Val Glu Arg Leu Val Lys Thr Gly Thr Asp
 35 40 45
 Pro Arg Ser Ile Leu Ile Leu Met Tyr Asn Lys Ser Ala Gln Val Ser
 50 55 60
 Phe Thr Glu Lys Leu Lys Thr Ala Leu Met Ser Ser Val Ile Pro Glu
 65 70 75 80
 Ile Arg Thr Phe His Ser Leu Ala Leu Lys Ile Val Gly Tyr Gly Glu
 85 90 95
 Arg Gln Gln Ile Ile Lys Lys Lys Asp Leu Ile Thr Pro Ser Asp Tyr
 100 105 110
 Arg Tyr Glu Gln Leu Val Lys Gln Ala Tyr Arg Tyr Gly Phe Asp His
 115 120 125
 Glu Ala Asn Tyr Ile Asp Pro Asn Glu Ile Glu Asn Phe Glu Leu Phe
 130 135 140
 Ile Ala Arg Cys Arg Ala Ala Ala Val Thr Pro Val Asp Ala Ala Asn
 145 150 155 160
 Asp Pro Thr Phe Ser Asn Ile Lys Arg Glu Phe Ile His Ala Tyr Gly
 165 170 175
 Arg Tyr Cys Glu Leu Leu Glu Glu Asn Ser Leu Arg Thr Phe Asp Asp
 180 185 190
 Cys Leu Ile Glu Ala Val Ala Leu Leu Arg Asn Asp Ser Ser Leu Gly
 195 200 205
 Ala His Phe Lys His Ile Ile Val Asp Glu Tyr Gln Asp Val Asn Leu
 210 215 220
 Ile Gln His Asp Met Thr Arg Leu Leu Ser Lys Ser Asp Thr Ser Val
 225 230 235 240
 Met Ala Val Gly Asp Val Asn Gln Cys Ile Tyr Glu Trp Arg Gly Ala
 245 250 255
 Arg Pro Asp Phe Ile Gly Gly Leu Phe Glu Arg His Tyr Pro Asn Thr
 260 265 270
 Lys Val Phe Gln Leu Ser Cys Thr Phe Arg Phe Gly His Glu Leu Ser
 275 280 285
 Leu Met Ala Asn Ser Val Ile Arg Arg Asn Ser Thr Lys Leu Thr Lys
 290 295 300
 Leu Cys Val Ser His Pro Ser Thr Pro Lys Thr Glu Val Arg Leu His
 305 310 315 320
 Phe Asp Asn Cys Leu Ser Lys Val Leu Ser Asn Leu Ser Val Ser Ser
 325 330 335
 Gly Thr Gln Ala Ile Leu Ser Arg Thr Lys Ala Asn Leu Ala Glu Ala
 340 345 350
 Glu Ile Ala Leu Arg Leu Cys Gly Leu Pro Tyr Arg Tyr Leu Asn Gly
 355 360 365
 Ser Ser Ala Leu His Thr Arg Thr Glu Ile Gly Ile Leu Val Val Gly
 370 375 380
 Val Leu Leu Ser Val Tyr Gly Asp Leu Arg Leu Leu Glu Asn His Pro
 385 390 395 400
 Asn Lys Gln Ala Ile Val Tyr Gly Phe Leu Lys Glu Ala Gly Phe Ser
 405 410 415
 Trp Gln Lys Gly Gln Phe Lys Ala Ala Leu Ser Gly Leu Met Ala Pro

420 425 430
 His Ala Asp Leu Trp Ser Ala Leu Gly Gln Leu Phe Glu Gly Ala Gln
 435 440 445
 Tyr Gln Lys Asp Arg Leu Gly Arg Leu Ala Thr Ile Cys Gln Lys Asp
 450 455 460
 Gly Glu Glu Thr Pro Ala Ile Asp Val Leu Arg Arg Leu Ser Met Glu
 465 470 475 480
 Gly Phe Ile Asp Ser Val Gly Ser Glu Gly Val Thr Arg Thr Gly Ser
 485 490 495
 Asn Asp Gln Gln Arg Gly Val Val Arg Ile Gly Glu Leu Leu Asp Ser
 500 505 510
 Ser Lys Ile Asp Ser Arg Thr Phe Leu Asn Leu Ile Leu Asn Pro Gly
 515 520 525
 Glu Ala Ala Thr Asp Cys Asp Pro Phe Ile Leu Ser Thr Leu His Gly
 530 535 540
 Ser Lys Gly Leu Glu Trp Asp Asn Val Ile Leu Ile Gly Leu Asn Glu
 545 550 555 560
 Gln Glu Phe Pro Gly Gly Lys Pro Asp Asp Val Tyr Ser Val Arg Thr
 565 570 575
 Ser Met Asn Thr Pro Pro Ala Glu Glu Glu Ile Glu Glu Glu Arg Arg
 580 585 590
 Leu Phe Tyr Val Gly Ile Thr Arg Thr Lys Gln Gln Leu Asn Leu Val
 595 600 605
 Val Pro Leu Asp Glu Gly Leu Ala Arg Trp Leu Lys Asn Arg Trp Asp
 610 615 620
 Ser Thr Pro Lys Lys Ser Pro Ile Ala Thr Arg Phe Val Tyr Glu Ala
 625 630 635 640
 Gly Trp Thr Ala Cys Ala Val Thr Ser Asp Ala Ile Tyr Asn Ser Thr
 645 650 655
 Val Glu Lys Gln Lys Ala Asp Phe Ser Lys Phe His Gln Trp Tyr Leu
 660 665 670
 Arg Asp Leu Gln Arg Leu Lys Val
 675 680

<210> 7833

<211> 816

<212> PRT

<213> Enterobacter cloacae

<400> 7833

Thr Leu Thr Ala Gln Val Glu Lys Gln His Lys Ser Ala Leu Asp Ser
 1 5 10 15
 Leu Leu Ile Ser Glu Gly Glu Gln Ala Ser Arg Leu Ala Leu Leu Leu
 20 25 30
 Gln Pro Pro Gly Lys Ile Asn Gly Lys Asn Val Leu Gln His Ile Asp
 35 40 45
 Arg Leu Asn Ser Ile Ala Ala Leu Gly Leu Pro Asp Gly Ile Ala Leu
 50 55 60
 Ser Val His Gln Asn Arg Leu Leu Lys Leu Ala Arg Glu Gly Arg Lys
 65 70 75 80
 Met Ser Ser Arg Asp Leu Ala Lys Phe Thr Asp Val Arg Arg Tyr Ala
 85 90 95
 Thr Leu Val Cys Ile Ile Thr Glu Ala Arg Ala Thr Leu Thr Asp Glu
 100 105 110
 Val Ile Asp Leu His Glu Arg Ile Leu Gly Ser Leu Phe Ser Arg Ala
 115 120 125
 Lys Arg Thr Gln Ala Glu Arg Leu Gln Gln Thr Gly Lys Leu Ile Gln
 130 135 140
 Ser Lys Leu Lys Gln Tyr Val Thr Val Gly Gln Ala Leu Leu Asn Ala
 145 150 155 160
 Arg Glu Ser Gly Glu Asp Pro Trp Thr Ala Ile Glu Asp Val Leu Pro

165										170										175									
Trp	Gln	Glu	Phe	Ile	Asn	Ser	Val	Glu	Glu	Thr	Arg	Phe	Leu	Ser	Arg														
180										185						190													
Lys	Gly	Asn	Phe	Asp	Ala	Leu	His	Leu	Ile	Thr	Glu	Lys	Tyr	Ser	Thr														
195										200						205													
Leu	Arg	Lys	Tyr	Ala	Pro	Arg	Met	Leu	Ser	Ala	Leu	Gln	Phe	Met	Ala														
210										215						220													
Thr	Pro	Ala	Ala	Gln	Ala	Leu	Ser	Asp	Ala	Leu	Asp	Thr	Ile	Thr	Glu														
225										230						235													
Met	Tyr	Arg	Lys	Gln	Leu	Arg	Lys	Val	Pro	Pro	Ser	Ala	Pro	Thr	Gly														
240										245						250													
Phe	Ile	Pro	Glu	Ser	Trp	Arg	Lys	Leu	Val	Leu	Thr	Pro	Ser	Gly	Ile														
255										260						265													
Asp	Arg	Lys	Tyr	Tyr	Glu	Phe	Cys	Val	Leu	Asn	Glu	Leu	Lys	Gly	Ala														
270										275						280													
Leu	Arg	Ser	Gly	Asp	Ile	Trp	Val	Lys	Gly	Ser	Arg	Arg	Tyr	Lys	Asn														
285										290						295													
Phe	Asp	Asp	Tyr	Leu	Ile	Pro	Thr	Ala	Glu	Phe																			

Lys Leu Ala Ser Tyr Pro Lys Gln Asn Gly Leu Ala Lys Ala Leu Arg
 660 665 670
 Glu Ile Gly Arg Ile Glu Arg Thr Leu Phe Met Leu Asp Trp Phe Arg
 675 680 685
 Asp Pro Gly Leu Arg Arg Arg Val Gln Ala Gly Leu Asn Lys Gly Glu
 690 695 700
 Ala Arg Asn Ala Leu Ala Arg Ala Val Phe Leu His Arg Leu Gly Glu
 705 710 715 720
 Ile Arg Asp Arg Gly Leu Glu Asn Gln Ser Tyr Arg Ala Ser Gly Leu
 725 730 735
 Thr Leu Leu Thr Ala Ala Ile Thr Leu Trp Asn Thr Val Tyr Ile Glu
 740 745 750
 Arg Ala Ile Glu Ser Leu Lys Arg Lys Gly Ile Pro Ile Asn Glu Gln
 755 760 765
 Leu Val Ser His Leu Ser Pro Leu Gly Trp Glu His Ile Asn Leu Ser
 770 775 780
 Gly Asp Tyr Val Trp Arg Asn Asn Leu Lys Leu Gly Ser Gly Lys Tyr
 785 790 795 800
 Arg Ser Leu Arg Thr Val Asp Thr Ala Leu Tyr Lys Lys Gln Ser
 805 810 815

<210> 7834

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 7834

Ala Phe Ile Arg Arg Thr Ile Met Glu Asn Ile Ala Leu Ile Gly Ile
 1 5 10 15
 Asp Leu Gly Lys Asn Ser Phe His Ile His Cys Gln Asp Arg Arg Gly
 20 25 30
 Lys Ala Val Tyr Arg Lys Lys Phe Thr Arg Pro Lys Leu Ile Glu Phe
 35 40 45
 Leu Ala Thr Cys Pro Ala Thr Thr Ile Ala Met Glu Ala Cys Gly Gly
 50 55 60
 Ser His Phe Met Ala Arg Lys Leu Glu Glu Leu Gly His Phe Pro Lys
 65 70 75 80
 Leu Ile Ser Pro Gln Phe Val Arg Pro Phe Val Lys Ser Asn Lys Asn
 85 90 95
 Asp Phe Val Asp Ala Glu Ala Ile Cys Glu Ala Ala Ser Arg Pro Ser
 100 105 110
 Met Arg Phe Val Gln Pro Arg Thr Glu Ser Gln Gln Ala Met Arg Ala
 115 120 125
 Leu His Arg Val Arg Glu Ser Leu Val Gln Asp Lys Val Lys Thr Thr
 130 135 140
 Asn Gln Met His Ala Phe Leu Leu Glu Phe Gly Ile Ser Val Pro Arg
 145 150 155 160
 Gly Ala Ala Val Ile Ser Arg Leu Ser Thr Leu Leu Glu Asp Asn Ser
 165 170 175
 Leu Pro Leu Tyr Leu Ser Gln Leu Leu Leu Lys Leu Gln Gln His Tyr
 180 185 190
 His Tyr Leu Val Glu Gln Ile Lys Asp Leu Glu Ser Gln Leu Lys Arg
 195 200 205
 Lys Leu Asp Glu Asp Glu Ile Gly Gln Arg Leu Leu Ser Ile Pro Cys
 210 215 220
 Val Gly Thr Leu Thr Ala Ser Thr Ile Ser Thr Glu Ile Gly Asp Gly
 225 230 235 240
 Lys Gln Tyr Ala Ser Ser Arg Asp Phe Ala Ala Ala Thr Gly Leu Val
 245 250 255
 Pro Arg Gln Tyr Ser Thr Gly Gly Arg Thr Thr Leu Leu Gly Ile Ser
 260 265 270

Lys Arg Gly Asn Lys Lys Ile Arg Thr Leu Leu Val Gln Cys Ala Arg
 275 280 285
 Val Phe Ile Gln Lys Leu Glu His Gln Ser Gly Lys Leu Ala Asp Trp
 290 295 300
 Val Arg Asp Leu Leu Cys Arg Lys Ser Asn Phe Val Val Thr Cys Ala
 305 310 315 320
 Leu Ala Asn Lys Leu Ala Arg Ile Ala Trp Ala Leu Thr Ala Arg Gln
 325 330 335
 Gln Thr Tyr Val Ala
 340

<210> 7835

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7835

Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser
 1 5 10 15
 Asp Phe Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
 20 25 30
 Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
 35 40 45
 Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
 50 55 60
 Thr Ser Lys Gly Asp Ser Arg Leu Ile Arg Arg Pro Ser Val Ala Ile
 65 70 75 80
 Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
 85 90 95
 Tyr Ala

<210> 7836

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 7836

Ala Ala Val His Ser Thr Ala Ser Arg Ser Thr Thr Tyr His Leu Pro
 1 5 10 15
 Ala Val Arg Ser Val Leu Ser Trp Ile Phe Leu Gly Gly Tyr Ala Val
 20 25 30
 Met Thr Thr Gln Ser Ser Ser Ile Gln Tyr Ala Tyr Ala Leu Asp Gly
 35 40 45
 Glu Gly Thr Leu Thr His Ile Gly Ala Ala Leu Arg Ser His Thr Tyr
 50 55 60
 Thr Cys Pro Gly Cys Lys Ser Pro Leu Thr Pro Val Met Gly Glu Phe
 65 70 75 80
 Asn Ala Lys His Phe Arg His Ser Glu Glu Cys Cys Ala Leu Glu Thr
 85 90 95
 Tyr Leu His Lys Cys Gly Lys Glu Ala Phe Phe Tyr Arg Tyr Gln Gln
 100 105 110
 Ala Leu Ser Arg Glu Met Pro Ile Ser Leu Glu Leu Glu Arg Arg Val
 115 120 125
 Ala Cys Asn Gly Ser His Leu Ala Leu Val Arg Asp Glu Ala Arg Gln
 130 135 140
 Cys Val Lys Ser Val Pro Ala Arg Tyr Asn Leu Thr Gln Phe Phe Asp
 145 150 155 160
 Gln Ala Glu Leu Glu Lys His Asp Lys Val Thr Gly Leu Arg Pro Asp
 165 170 175
 Val Met Leu Tyr Asp Thr Thr Gly Glu Arg Arg Cys Tyr Val Glu Ile

Trp	Leu	Asp	Leu	Gly	Gly	Leu	Ser	Ser	Leu	Ser	Ala	Glu	Glu	Tyr	Phe
Gly	Ala	Ser	Leu	Trp	Gln	Leu	Tyr	Lys	Ser	Ile	Asp	Ser	Pro	Tyr	Lys
Ala	Val	Leu	Lys	Thr	Leu	Leu	Leu	Glu	Ala	Tyr	Ser	Trp	Glu	Tyr	Pro
Thr	Pro	Arg	Leu	Leu	Ala	Lys	Asp	Ile	Lys	Gln	Arg	Leu	His	Asp	Gly
Glu	Ile	Val	Ser	Tyr	Gly	Leu	Asp	Ala	Tyr	Cys	Met	Met	Leu	Glu	Arg
Val	Thr	Glu	Tyr	Leu	Thr	Ala	Ile	Glu	Asp	Ala	Thr	Arg	Leu	Asp	Leu
Val	Arg	Arg	Cys	Phe	Tyr	Leu	Lys	Val	Cys	Glu	Lys	Leu	Ser	Arg	Glu
Arg	Ala	Cys	Val	Gly	Trp	Arg	Arg	Glu	Val	Val	Ser	Gln	Leu	Val	Lys
Glu	Trp	Gly	Trp	Asp	Glu	Ala	Arg	Leu	Ala	Met	Leu	Asp	Asn	Arg	Ala
Asn	Trp	Lys	Ile	Asp	Gln	Val	Arg	Glu	Ala	His	Asn	Glu	Leu	Leu	Asp
Ala	Met	Met	Gln	Ser	Tyr	Arg	Asn	Leu	Ile	Arg	Phe	Ala	Arg	Arg	Asn
Asn	Leu	Ser	Val	Ser	Ala	Ser	Pro	Gln	Asp	Ile	Gly	Val	Leu	Thr	Arg
Lys	Leu	Tyr	Ala	Ala	Phe	Glu	Ala	Leu	Pro	Gly	Lys	Val	Thr	Leu	Val
Asn	Pro	Gln	Ile	Ser	Pro	Asp	Leu	Ser	Glu	Pro	Asn	Leu	Thr	Phe	Ile
Tyr	Val	Pro	Pro	Gly	Arg	Ala	Asn	Arg	Thr	Gly	Trp	Tyr	Leu	Tyr	Asn
Arg	Ala	Pro	Ser	Met	Asp	Ser	Ile	Ile	Ser	His	Gln	Pro	Leu	Glu	Tyr
Asn	Arg	Tyr	Leu	Asn	Lys	Leu	Val	Ala	Trp	Ala	Trp	Phe	Asn	Gly	Leu
Leu	Thr	Ser	Arg	Thr	Arg	Leu	Phe	Ile	Lys	Gly	Asn	Glu	Val	Val	Asp
Leu	Ala	Lys	Leu	Gln	Glu	Met	Val	Ala	Asp	Val	Ser	His	His	Phe	Pro
Leu	Arg	Leu	Pro	Ala	Pro	Thr	Pro	Lys	Ala	Leu	Tyr	Ser	Pro	Cys	Glu
Ile	Arg	His	Leu	Ala	Ile	Ile	Val	Asn	Leu	Glu	Tyr	Asp	Pro	Thr	Ala
Ala	Phe	Arg	Asn	Gln	Val	Val	His	Phe	Asp	Phe	Arg	Lys	Leu	Asp	Val
Phe	Ser	Phe	Gly	Glu	Gln	Gln	Asn	Cys	Leu	Val	Gly	Ser	Val	Asp	Leu
Leu	Tyr	Arg	Asn	Ser	Trp	Asn	Glu	Val	Arg	Thr	Leu	His	Phe	Asn	Gly
Glu	Gln	Ala	Met	Ile	Glu	Ala	Leu	Lys	Thr	Ile	Leu	Gly	Lys	Met	His
Gln	Asp	Ala	Ala	Pro	Pro	Asp	Ser	Val	Glu	Phe	Cys	Tyr	Ser	Gln	
His	Leu	Arg	Gly	Leu	Ile	Arg	Thr	Arg	Val	Gln	Gln	Leu	Val	Ser	Glu
Cys	Ile	Glu	Leu	Arg	Leu	Ser	Ser	Thr	Arg	Gln	Glu	Thr	Gly	Arg	Phe
Lys	Ala	Leu	Arg	Val	Ser	Gly	Gln	Thr	Trp	Gly	Leu	Phe	Glu	Arg	
Leu	Asn	Val	Ser	Val	Gln	Lys	Leu	Glu	Asn	Ala	Ile	Glu	Phe	Tyr	Gly

Ala Ile Ser His Asn Lys Leu His Gly Leu Ser Val Gln Val Glu Thr
 740 745 750
 Asn His Val Lys Leu Pro Gln Val Val Asp Gly Phe Ala Ser Glu Gly
 755 760 765
 Ile Ile Gln Phe Phe Phe Glu Glu Ser Gly Asp Asn Ala Gly Phe Asn
 770 775 780
 Ile Tyr Ile Leu Asp Glu Thr Asn Arg Ala Glu Val Tyr His His Cys
 785 790 795 800
 Glu Gly Ser Lys Glu Glu Leu Val Arg Asp Val Ser Arg Phe Tyr Ser
 805 810 815
 Ser Ser His Asp Arg Phe Thr Tyr Gly Ser Ser Phe Ile Asn Phe Asn
 820 825 830
 Leu Pro Gln Phe Tyr Gln Ile Val Asn Val Asp Gly Arg Ala Gln Val
 835 840 845
 Ile Pro Phe Arg Thr Gln Ala Ile Thr Pro Ala Ala Pro Ala Asn Gln
 850 855 860
 Glu Thr Ala Pro Leu Leu Gln Gln Tyr Phe Ser
 865 870 875

<210> 7838

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7838

Arg Arg Pro Asp Ser Gly Gln Ser Leu Thr Ile Thr Phe Cys Thr Arg
 1 5 10 15
 Ala Met Glu Gln Met Met Gln Phe Ser Lys Met His Gly Leu Gly Asn
 20 25 30
 Asp Phe Met Val Val Asp Ala Val Thr Gln Asn Val Phe Phe Ser Pro
 35 40 45
 Glu Leu Ile Arg Arg Leu Ala Asp Arg His Val Gly Val Gly Phe Asp
 50 55 60
 Gln Leu Leu Val Val Glu Pro Pro Tyr Asp Pro Asp Leu Asp Phe His
 65 70 75 80
 Tyr Arg Ile Phe Asn Ala Asp Gly Ser Glu Val Ser Gln Cys Gly Asn
 85 90 95
 Gly Ala Arg Cys Phe Ala Arg Phe Val Arg Leu Lys Gly Leu Thr Asn
 100 105 110
 Lys Arg Asp Ile Arg Val Ser Thr Ala Asn Gly Arg Met Val Leu Ser
 115 120 125
 Val Thr Asp Asp Glu Leu Val Arg Val Asn Met Gly Glu Pro Asn Phe
 130 135 140
 Glu Pro Ser Ala Val Pro Phe Arg Ala Asn Lys Ala Glu Lys Thr Tyr
 145 150 155 160
 Ile Met Arg Ala Ala Glu Gln Thr Val Leu Cys Gly Val Val Ser Met
 165 170 175
 Gly Asn Pro His Cys Val Ile Gln Val Asp Asp Val Gln Thr Ala Ala
 180 185 190
 Val Glu Thr Leu Gly Pro Val Leu Glu Ser His Glu Arg Phe Pro Glu
 195 200 205
 Arg Ala Asn Ile Gly Phe Met Gln Val Val Lys Arg Glu His Ile Arg
 210 215 220
 Leu Arg Val Tyr Glu Arg Gly Ala Gly Glu Thr Gln Ala Cys Gly Ser
 225 230 235 240
 Gly Ala Cys Ala Ala Val Ala Val Gly Ile Ser Gln Gly Leu Leu Ala
 245 250 255
 Glu Glu Val Arg Val Glu Leu Pro Gly Gly Arg Leu Asp Ile Ala Trp
 260 265 270
 Lys Gly Ala Gly His Pro Leu Tyr Met Thr Gly Pro Ala Thr His Val
 275 280 285

Tyr Asp Gly Phe Ile His Leu
290 295

<210> 7839

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 7839

Arg Gly Ala Ser Thr Arg Gln Thr Gly Glu Ile Met Arg Phe Tyr Arg
1 5 10 15
Pro Leu Gly Gln Ile Ser Ala Leu Thr Phe Asp Leu Asp Asp Thr Leu
20 25 30
Tyr Asp Asn Arg Pro Val Ile Leu Arg Thr Glu Gln Glu Ser Leu Ala
35 40 45
Phe Val Gln Asn Tyr His Pro Ala Leu Lys Thr Met Gln Asn Lys Asp
50 55 60
Phe Gln Lys Leu Arg Gln Ser Leu Arg Glu Thr Glu Pro Glu Ile Tyr
65 70 75 80
His Asp Val Thr Glu Trp Arg Arg Arg Ala Val Glu Gln Ala Met Leu
85 90 95
Asn Ala Gly Leu Ser Ala Gln Asp Ala Ala Thr Gly Ala Glu Ala Ala
100 105 110
Met Glu Asn Phe Ala Lys Trp Arg Ser Arg Ile Asp Val Pro Gln Glu
115 120 125
Thr His Asp Thr Leu Ala Lys Leu Ala Glu Lys Trp Pro Leu Val Ala
130 135 140
Ile Thr Asn Gly Asn Ala Gln Pro Glu Leu Phe Gly Leu Gly Asn Tyr
145 150 155 160
Phe Gln Phe Val Leu Arg Ala Gly Pro His Gly Arg Ser Lys Pro Phe
165 170 175
Asn Asp Met Tyr His Leu Ala Ala Glu Lys Leu Asp Leu Pro Leu Gly
180 185 190
Glu Ile Leu His Val Gly Asp Asp Leu Thr Thr Asp Val Ala Gly Ala
195 200 205
Ile Arg Cys Gly Met Gln Ala Cys Trp Ile Lys Pro Glu Asn Ala Asp
210 215 220
Leu Met Thr Thr Pro Asp Ser Arg Leu Leu Pro His Val Glu Ile Ser
225 230 235 240
Arg Leu Ala Ser Leu Thr Thr Leu Ile
245 250

<210> 7840

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 7840

Trp Ser Glu Thr Gln Phe Val Ser Val Cys Pro Pro Asn Cys Pro Ile
1 5 10 15
Phe Phe Ala Leu Gly Val Pro Val Met Leu Ser Ala Phe Gln Leu Glu
20 25 30
Asn Asn Arg Leu Thr Arg Leu Glu Ala Glu Glu Ser Gln Pro Leu Ile
35 40 45
Asp Ala Val Trp Val Asp Leu Val Glu Pro Asp Asp Glu Arg Leu
50 55 60
Arg Val Gln Ser Glu Leu Gly Gln Ser Leu Ala Thr Arg Pro Glu Leu
65 70 75 80
Glu Asp Ile Glu Ala Ser Ala Arg Phe Glu Asp Glu Asp Gly Leu
85 90 95
His Ile His Ser Phe Phe Phe Phe Glu Asp Ala Glu Asp His Ala Gly

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      100      105      110
Asn Ser Thr Val Ala Phe Thr Ile Arg Asp Gly Arg Leu Phe Thr Leu
      115      120      125
Arg Glu Arg Glu Leu Pro Ala Phe Arg Leu Tyr Arg Met Arg Ala Arg
      130      135      140
Ser Gln Ala Met Met Asp Gly Asn Ala Tyr Glu Leu Leu Leu Asp Leu
145      150      155      160
Phe Glu Thr Lys Ile Glu Gln Leu Ala Asp Glu Ile Glu Asn Ile Tyr
      165      170      175
Ser Asp Leu Glu Lys Leu Ser Arg Val Ile Met Glu Gly His Gln Gly
      180      185      190
Asp Glu Tyr Asp Glu Ala Leu Ser Thr Leu Ala Glu Leu Glu Asp Ile
      195      200      205
Gly Trp Lys Val Arg Leu Cys Leu Met Asp Thr Gln Arg Ala Leu Asn
      210      215      220
Phe Leu Val Arg Lys Ala Arg Leu Pro Gly Gly Gln Leu Glu Gln Ala
225      230      235      240
Arg Glu Ile Leu Arg Asp Ile Glu Ser Leu Leu Pro His Asn Glu Ser
      245      250      255
Leu Phe Gln Lys Val Asn Phe Leu Met Gln Ala Ala Met Gly Phe Ile
      260      265      270
Asn Ile Glu Gln Asn Arg Ile Ile Lys Ile Phe Ser Val Val Ser Val
      275      280      285
Val Phe Leu Pro Pro Thr Leu Val Ala Ser Ser Tyr Gly Met Asn Phe
      290      295      300
Glu Phe Met Pro Glu Leu Lys Trp Ser Phe Gly Tyr Pro Gly Ala Ile
305      310      315      320
Ile Phe Met Ile Leu Ala Gly Leu Ala Pro Tyr Leu Tyr Phe Lys Arg
      325      330      335
Lys Asn Trp Leu
      340

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<210> 7841

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 7841

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Asn Ala Arg Thr Lys Leu Phe Ile Lys Cys His His Phe Arg Arg Thr
1      5      10
Pro Pro Met Arg Thr Tyr Leu Gly Trp Leu Leu Ala Val Ala Leu
      20      25      30
Pro Leu Thr Ala Tyr Ala Gln Glu Ala Thr Ile Lys Glu Val His Asp
      35      40      45
Lys Pro Ala Val Lys Gly Ser Ile Ile Ala Asn Met Leu Gln Glu His
      50      55      60
Asp Asn Pro Phe Thr Leu Tyr Pro Tyr Asp Thr Asn Tyr Val Ile Tyr
65      70      75      80
Thr Gln Thr Ser Asp Leu Asn Lys Glu Ala Ile Ser Ser Tyr Asn Trp
      85      90      95
Ser Asp Asn Ala Arg Lys Asp Glu Val Lys Phe Gln Leu Ser Leu Ala
      100      105      110
Phe Pro Phe Trp Arg Gly Ile Leu Gly Pro Asn Ser Val Leu Gly Ala
      115      120      125
Ser Tyr Thr Gln Lys Ser Trp Trp Gln Leu Ser Asn Ser Gly Glu Ser
      130      135      140
Ser Pro Phe Arg Glu Thr Asn Tyr Glu Pro Gln Leu Phe Leu Gly Phe
145      150      155      160
Ala Thr Asp Tyr Glu Phe Ala Gly Trp Thr Leu Arg Asp Val Glu Val
      165      170      175
Gly Tyr Asn His Asp Ser Asn Gly Arg Ser Asp Pro Thr Ser Arg Ser

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180 185 190
 Trp Asn Arg Ile Tyr Thr Arg Leu Met Ala Gln Asn Gly Asn Phe Met
 195 200 205
 Val Glu Val Lys Pro Trp Tyr Val Val Gly Ser Thr Asp Asp Asn Pro
 210 215 220
 Asp Ile Thr Lys Tyr Met Gly Tyr Tyr Gln Leu Lys Val Gly Tyr Gln
 225 230 235 240
 Leu Gly Asp Ala Val Leu Ser Ala Lys Gly Gln Tyr Asn Trp Asn Thr
 245 250 255
 Gly Tyr Gly Gly Ala Glu Leu Gly Leu Ser Tyr Pro Val Thr Lys His
 260 265 270
 Val Arg Leu Tyr Thr Gln Val Tyr Ser Gly Tyr Gly Glu Ser Leu Ile
 275 280 285
 Asp Tyr Asn Phe Asn Gln Thr Arg Val Gly Val Gly Val Met Leu Asn
 290 295 300
 Asp Ile Phe
 305

<210> 7842

<211> 632

<212> PRT

<213> Enterobacter cloacae

<400> 7842

Thr Leu Lys Phe Leu Ser Gln Ala Leu Lys Ile Ala Pro Val Ser Phe
 1 5 10 15
 Leu Ala Tyr Gly Val Asn Val Ala Gln Ala Glu Val Leu Asn Gln Glu
 20 25 30
 Ser Leu Ala Lys Gln Val Leu His Glu Thr Phe Gly Tyr Gln Gln Phe
 35 40 45
 Arg Pro Gly Gln Glu Thr Ile Ile Glu Thr Val Leu Glu Gly Arg Asp
 50 55 60
 Cys Leu Val Val Met Pro Thr Gly Gly Gly Lys Ser Leu Cys Tyr Gln
 65 70 75 80
 Val Pro Ala Leu Val Leu Asn Gly Leu Thr Val Val Val Ser Pro Leu
 85 90 95
 Ile Ser Leu Met Lys Asp Gln Val Asp Gln Leu Leu Ala Asn Gly Val
 100 105 110
 Ala Ala Ala Cys Leu Asn Ser Thr Gln Thr Arg Glu Gln Gln Gln Glu
 115 120 125
 Val Met Ala Gly Cys Arg Thr Gly Gln Val Arg Leu Leu Tyr Ile Ala
 130 135 140
 Pro Glu Arg Leu Met Leu Asp Asn Phe Leu Asp His Leu Ala His Trp
 145 150 155 160
 Asn Pro Val Leu Leu Ala Val Asp Glu Ala His Cys Ile Ser Gln Trp
 165 170 175
 Gly His Asp Phe Arg Pro Glu Tyr Ala Ala Leu Gly Gln Leu Arg Gln
 180 185 190
 Arg Phe Pro Glu Leu Pro Phe Met Ala Leu Thr Ala Thr Ala Asp Asp
 195 200 205
 Thr Thr Arg Gln Asp Ile Val Arg Leu Leu Gly Leu Asn Asp Pro Tyr
 210 215 220
 Ile Gln Val Ser Ser Phe Asp Arg Pro Asn Ile Arg Tyr Met Leu Met
 225 230 235 240
 Glu Lys Phe Lys Pro Leu Asp Gln Leu Leu Arg Tyr Val Gln Glu Gln
 245 250 255
 Arg Gly Lys Ser Gly Ile Ile Tyr Cys Asn Ser Arg Ala Lys Val Glu
 260 265 270
 Asp Thr Ala Ala Arg Leu Gln Asn Arg Gly Phe Ser Ala Ala Ala Tyr
 275 280 285
 His Ala Gly Leu Glu Asn His Ile Arg Ala Asp Val Gln Glu Lys Phe

290 295 300
 Gln Arg Asp Asp Leu Gln Ile Val Val Ala Thr Val Ala Phe Gly Met
 305 310 315 320
 Gly Ile Asn Lys Pro Asn Val Arg Phe Val Val His Phe Asp Ile Pro
 325 330 335
 Arg Asn Ile Glu Ser Tyr Tyr Gln Glu Thr Gly Arg Ala Gly Arg Asp
 340 345 350
 Gly Leu Pro Ala Glu Ala Met Leu Phe Tyr Asp Pro Ala Asp Met Ala
 355 360 365
 Trp Leu Arg Arg Cys Leu Glu Glu Lys Pro Gln Gly Gln Leu Gln Asp
 370 375 380
 Ile Glu Arg His Lys Leu Asn Ala Met Gly Ala Phe Ala Glu Ala Gln
 385 390 395 400
 Thr Cys Arg Arg Leu Val Leu Leu Asn Tyr Phe Gly Glu Gly Arg Gln
 405 410 415
 Ala Pro Cys Gly Asn Cys Asp Ile Cys Leu Asp Pro Pro Lys Gln Tyr
 420 425 430
 Asp Gly Leu Met Asp Ala Arg Lys Ala Leu Ser Thr Ile Gly Arg Val
 435 440 445
 Asn Gln Arg Phe Gly Met Gly Tyr Val Val Glu Val Leu Arg Gly Ala
 450 455 460
 Asn Asn Gln Arg Ile Arg Asp Met Gly His Asp Lys Leu Pro Val Tyr
 465 470 475 480
 Gly Ile Gly Lys Asp Gln Ser His Glu His Trp Val Ser Ile Ile Arg
 485 490 495
 Gln Leu Ile His Leu Gly Phe Ala Thr Gln Asn Ile Ala Gln His Ser
 500 505 510
 Ala Leu Gln Leu Thr Glu Ala Ala Arg Pro Val Leu Arg Gly Glu Val
 515 520 525
 Glu Leu Lys Leu Ala Val Pro Arg Val Val Ala Leu Lys Pro Arg Val
 530 535 540
 Met Gln Lys Ser Tyr Gly Gly Asn Tyr Asp Arg Lys Leu Phe Ala Lys
 545 550 555 560
 Leu Arg Lys Leu Arg Lys Ala Ile Ala Asp Glu Glu Asn Ile Pro Pro
 565 570 575
 Tyr Val Val Phe Asn Asp Ala Thr Leu Ile Glu Met Ala Glu Gln Met
 580 585 590
 Pro Leu Ser Ala Ser Glu Met Leu Ser Val Asn Gly Val Gly Thr Arg
 595 600 605
 Lys Leu Glu Arg Phe Gly Lys Glu Phe Met Ala Leu Ile Arg Ser His
 610 615 620
 Ala Asp Gly Asp Asp Glu Glu
 625 630

<210> 7843

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 7843

Ile Thr Gly Gly Gly Asn Pro Met Phe Gln Gln Lys Lys Asp Trp Glu
 1 5 10 15
 Thr Arg Glu Asn Ala Phe Ala Ala Phe Ser Met Gly Pro Leu Thr Asp
 20 25 30
 Phe Trp Arg Gln Arg Glu Glu Asp Glu Phe Met Gly Val Gly Glu Ile
 35 40 45
 Pro Val Arg Phe Val Arg Phe Arg Asp Glu Lys Asn Asp Arg Val Ile
 50 55 60
 Val Val Cys Pro Gly Arg Ile Glu Ser Tyr Ile Lys Tyr Ala Glu Leu
 65 70 75 80
 Ala Tyr Asp Leu Phe His Leu Gly Phe Asp Val Leu Ile Ile Asp His

Arg	Gly	Gln	Gly	Leu	Ser	Gly	Arg	Met	Leu	Pro	Asp	Thr	His	Arg	Gly
			100					105						110	
His	Val	Asp	Asn	Phe	Ser	Asp	Trp	Val	Asp	Asp	Leu	Ala	Ala	Phe	Trp
		115					120					125			
Gln	Gln	Glu	Val	Gln	Pro	Gly	Pro	Trp	Arg	Lys	Arg	Gly	Ile	Leu	Ala
		130				135					140				
His	Ser	Met	Gly	Gly	Ala	Ile	Ser	Thr	Leu	Phe	Leu				
145					150					155					

<210> 7844

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 7844

[illegible]

<210> 7845

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 7845

1	Ala	Arg	Met	Thr	Asp	Gly	Leu	Leu	Ala	Thr	Asp	Val	Asn	Arg	Phe	Leu
				5						10					15	
1	Arg	Tyr	Leu	Gly	Val	Glu	Arg	Gln	Leu	Ser	Pro	Ile	Thr	Leu	Leu	Asn
				20					25					30		
	Tyr	Gln	Arg	Gln	Leu	Asp	Ala	Ile	Met	Gln	Ile	Ala	Asp	Glu	Ile	Gly
			35					40					45			
	Leu	Lys	Ser	Trp	Gln	Gln	Cys	Asp	Ala	Ala	Thr	Val	Arg	Gly	Phe	Val
		50					55					60				
	Val	Arg	Ser	Arg	Lys	Lys	Asn	Leu	Ser	Pro	Ala	Ser	Leu	Ala	Leu	Arg
65					70						75				80	
	Leu	Ser	Ala	Leu	Arg	Ser	Phe	Phe	Asp	Trp	Leu	Val	Ser	Gln	Gly	Gly
				85					90					95		
	Leu	Lys	Ala	Asn	Pro	Ala	Lys	Gly	Ile	Ala	Thr	Pro	Lys	Ala	Pro	Arg
			100						105					110		
	His	Leu	Pro	Lys	Asn	Ile	Asp	Val	Asp	Asp	Val	Asn	Arg	Leu	Leu	Asp
		115					120						125			
	Ile	Asp	Leu	Asn	Asp	Pro	Leu	Ala	Val	Arg	Asp	Arg	Ala	Met	Leu	Glu
		130					135					140				

Val Met Tyr Gly Ala Gly Leu Arg Leu Ser Glu Leu Val Asn Leu Asp
 145 150 155 160
 Leu Lys His Leu Asp Leu Glu Ser Gly Glu Val Trp Val Met Gly Lys
 165 170 175
 Gly Ser Lys Glu Arg Arg Leu Pro Ile Gly Arg Asn Ala Val Ser Trp
 180 185 190
 Ile Glu His Trp Leu Asp Leu Arg Gly Leu Phe Gly Ala Asp Glu Asp
 195 200 205
 Ala Leu Phe Leu Ser Lys Leu Gly Lys Arg Ile Ser Ala Arg Asn Val
 210 215 220
 Gln Lys Arg Phe Ala Glu Trp Gly Ile Lys Gln Gly Leu Asn Ser His
 225 230 235 240
 Val His Pro His Lys Leu Arg His Ser Phe Ala Thr His Met Leu Glu
 245 250 255
 Ser Ser Gly Asp Leu Arg Gly Val Gln Glu Leu Leu Gly His Ala Asn
 260 265 270
 Leu Ser Thr Thr Gln Ile Tyr Thr His Leu Asp Phe Gln His Leu Ala
 275 280 285
 Ser Val Tyr Asp Ala Ala His Pro Arg Ala Lys Arg Gly Lys
 290 295 300

<210> 7846

<211> 739

<212> PRT

<213> Enterobacter cloacae

<400> 7846

Gln Gly Phe Gly Glu Trp Lys His Leu Pro Ala Arg His Asp Val Thr
 1 5 10 15
 Val Pro Met Asp Val Ser Tyr Leu Leu Asp Ser Leu Asn Asp Lys Gln
 20 25 30
 Arg Asp Ala Val Ala Ala Ser Arg Thr Asn Leu Leu Val Leu Ala Gly
 35 40 45
 Ala Gly Ser Gly Lys Thr Arg Val Leu Val His Arg Ile Ala Trp Leu
 50 55 60
 Gln Ser Val Glu Asn Cys Ser Pro Tyr Ser Ile Met Ala Val Thr Phe
 65 70 75 80
 Thr Asn Lys Ala Ala Ala Glu Met Arg His Arg Ile Ala Gln Leu Met
 85 90 95
 Gly Thr Ser Gln Gly Gly Met Trp Val Gly Thr Phe His Gly Leu Ala
 100 105 110
 His Arg Leu Arg Ala His His Met Asp Ala Asn Leu Pro Gln Asp
 115 120 125
 Phe Gln Ile Leu Asp Ser Glu Asp Gln Leu Arg Leu Leu Lys Arg Leu
 130 135 140
 Ile Lys Ala Met Asn Leu Asp Glu Lys Gln Trp Pro Pro Arg Gln Ala
 145 150 155 160
 Met Trp Tyr Ile Asn Gly Gln Lys Asp Glu Gly Leu Arg Pro His His
 165 170 175
 Ile Gln Ser Phe Gly Asn Pro Val Glu Gln Thr Trp Gln Asn Val Tyr
 180 185 190
 Lys Ala Tyr Gln Glu Ala Cys Asp Arg Ala Gly Leu Val Asp Phe Ala
 195 200 205
 Glu Leu Leu Leu Arg Ala His Glu Leu Trp Leu Asn Lys Pro His Ile
 210 215 220
 Leu Gln His Tyr Arg Glu Arg Phe Thr Asn Ile Leu Val Asp Glu Phe
 225 230 235 240
 Gln Asp Thr Asn Asn Ile Gln Tyr Ala Trp Ile Arg Leu Leu Ala Gly
 245 250 255
 Asp Thr Gly Lys Val Met Ile Val Gly Asp Asp Gln Ser Ile Tyr
 260 265 270

Gly Trp Arg Gly Ala Gln Val Glu Asn Ile Gln Arg Phe Leu Asn Asp
 275 280 300
 Phe Pro Gly Ala Gln Thr Ile Arg Leu Glu Gln Asn Tyr Arg Ser Thr
 290 295 310 315 320
 Ser Asn Ile Leu Ser Ala Ala Asn Ala Leu Ile Glu Asn Asn Asn Gly
 305 310 325 330 335 340
 Arg Leu Gly Lys Lys Leu Trp Thr Asp Gly Val Asp Gly Glu Pro Ile
 325 330 335 340 345 350
 Ser Ile Tyr Cys Ala Phe Asn Glu Leu Asp Glu Ala Arg Phe Val Val
 340 345 350 355 360 365
 Asn Arg Ile Lys Thr Trp Gln Glu Asn Gly Gly Ala Leu Glu Gln Cys
 355 360 365 370 375 380
 Ala Ile Leu Tyr Arg Ser Asn Ala Gln Ser Arg Val Leu Glu Glu Ala
 370 375 380 385 390 395
 Leu Leu Gln Val Ser Met Pro Tyr Arg Ile Tyr Gly Gly Met Arg Phe
 385 390 395 400 405 410
 Phe Glu Arg Gln Glu Ile Lys Asp Ala Leu Ser Tyr Leu Arg Leu Ile
 405 410 415 420 425 430
 Ala Asn Arg Asn Asp Asp Ala Ala Phe Glu Arg Val Val Asn Thr Pro
 420 425 430 435 440 445
 Thr Arg Gly Ile Gly Asp Arg Thr Leu Asp Val Val Arg Gln Ala Ser
 435 440 445 450 455 460
 Arg Asp Arg Gln Leu Thr Leu Trp Gln Ala Cys Arg Glu Leu Leu Gln
 450 455 460 465 470 475
 Glu Lys Ala Leu Ala Gly Arg Ala Ala Ser Ala Leu Gln Arg Phe Leu
 465 470 475 480 485 490
 Glu Leu Ile Asp Ala Leu Ala Gln Glu Thr Ala Asp Met Pro Leu His
 485 490 495 500 505 510
 Val Gln Thr Asp Arg Val Ile Lys Asp Ser Gly Leu Arg Thr Met Tyr
 500 505 510 515 520 525
 Glu Gln Glu Lys Gly Glu Lys Gly Gln Thr Arg Ile Glu Asn Leu Glu
 515 520 525 530 535 540
 Glu Leu Val Thr Ala Thr Arg Gln Phe Ser Tyr Asn Glu Glu Asp Glu
 530 535 540 545 550 555
 Asp Leu Met Pro Leu Gln Ala Phe Leu Ser His Ala Ala Leu Glu Ala
 545 550 555 560 565 570
 Gly Glu Gly Gln Ala Asp Thr Trp Gln Asp Ala Val Gln Leu Met Thr
 565 570 575 580 585 590
 Leu His Ser Ala Lys Gly Leu Glu Phe Pro Gln Val Phe Ile Val Gly
 580 585 590 595 600 605
 Met Glu Glu Gly Met Phe Pro Ser Gln Met Ser Leu Asp Glu Gly Gly
 595 600 605 610 615 620
 Arg Leu Glu Glu Glu Arg Arg Leu Ala Tyr Val Gly Val Thr Arg Ala
 610 615 620 625 630 635
 Met Gln Lys Leu Thr Leu Thr Tyr Ala Glu Thr Arg Arg Leu Tyr Gly
 625 630 635 640 645 650
 Lys Glu Val Tyr His Arg Pro Ser Arg Phe Ile Gly Glu Leu Pro Glu
 645 650 655 660 665 670
 Glu Cys Val Glu Glu Val Arg Leu Arg Ala Ser Ile Ser Arg Pro Val
 660 665 670 675 680 685
 Ser His Gln Arg Met Gly Ser Pro Ile Ser Glu Thr Asp Thr Gly Tyr
 675 680 685 690 695 700
 Lys Leu Gly Gln Arg Val Arg His Ser Lys Phe Gly Glu Gly Thr Ile
 690 695 700 705 710 715
 Val Asn Leu Glu Gly Ser Gly Glu His Ser Arg Leu Gln Val Ala Phe
 705 710 715 720 725 730
 Gln Gly Gln Gly Ile Lys Trp Leu Val Ala Tyr Ala Lys Leu Glu
 725 730 735 740 745 750
 Ser Val

<210> 7847

<211> 217

<212> PRT

<213> *Enterobacter cloacae*

<400> 7847

```

Leu Thr Val Leu Phe Pro Arg Glu Leu Ile Met Leu Met Leu Phe Leu
1      5      10      15
Thr Val Ala Leu Val His Ile Val Ala Leu Met Ser Pro Gly Pro Asp
      20      25      30
Phe Phe Phe Val Ser Gln Thr Ala Val Ser Arg Ser Arg Lys Glu Ala
      35      40      45
Met Met Gly Val Leu Gly Ile Thr Met Gly Val Met Val Trp Ala Ala
      50      55      60
Val Ala Leu Leu Gly Leu Asn Leu Ile Leu Ala Lys Met Ala Trp Leu
      65      70      75      80
His Asn Ile Ile Met Val Gly Gly Gly Leu Tyr Leu Cys Trp Met Gly
      85      90      95
Tyr Gln Met Leu Arg Gly Ala Leu Lys Lys Glu Glu Ser Lys Pro Glu
      100      105      110
Glu Pro Lys Val Glu Leu Ala Thr Gly Gly Arg Ser Phe Val Lys Gly
      115      120      125
Leu Leu Thr Asn Leu Ala Asn Pro Lys Ala Ile Ile Tyr Phe Gly Ser
      130      135      140
Val Phe Ser Leu Phe Val Gly Asp Asn Val Gly Ala Gly Ala Arg Trp
      145      150      155      160
Gly Ile Phe Leu Leu Ile Val Val Glu Thr Phe Ala Trp Phe Thr Val
      165      170      175
Val Ala Ser Leu Phe Ala Leu Pro Ala Met Arg Arg Gly Tyr Gln Arg
      180      185      190
Ile Ala Lys Trp Ile Asp Gly Phe Ala Gly Ala Leu Phe Ala Gly Phe
      195      200      205
Gly Ile His Leu Ile Ile Ser Arg
      210      215

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<210> 7848

<211> 241

<212> PRT

<213> *Enterobacter cloacae*

<400> 7848

```

Arg Val Tyr Pro Ser Met Lys Gln Pro Gly Glu Glu Leu Arg Glu Pro
1      5      10      15
Val Thr Glu Leu Asp Asp Ser Thr Val Val Asp Tyr Leu Leu His Asn
      20      25      30
Pro Glu Phe Phe Ile Arg Asn Ala Arg Val Val Glu Arg Met Arg Val
      35      40      45
Pro His Pro Val Arg Glu Thr Val Ser Leu Val Glu Trp His Met Ala
      50      55      60
Arg Ser Arg Asn His Ile Asn Gln Leu Glu Glu Asn Met Thr Leu Leu
      65      70      75      80
Met Glu Gln Ala Ser Asn Asn Glu Ser Leu Phe Tyr Arg Leu Leu His
      85      90      95
Leu Gln Ala Arg Leu Ala Ser Ala His Ser Leu Glu Glu Phe Leu Asn
      100      105      110
Arg Phe His Arg Trp Ala Arg Glu Leu Gly Leu Ala Gly Ala Thr Ile
      115      120      125
Arg Leu Phe Pro Asp Arg Trp Arg Ile Gly Ala Pro Ser Gly Phe Thr
      130      135      140
His Leu Ala Leu Ser Arg Gln Ala Phe Glu Pro Leu Arg Ile Gln Arg
      145      150      155      160

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Leu Gly His Glu His His Tyr Leu Gly Pro Leu Asn Gly Pro Glu Leu
 165 170 175
 Leu Val Val Leu Pro Glu Ala Lys Ala Ile Gly Ser Val Ala Met Ser
 180 185 190
 Leu Met Gly Arg Asp Gly Asp Leu Gly Val Met Leu Phe Thr Ser Arg
 195 200 205
 Asp Ala His His Tyr Glu Gln Gly Thr Gln Leu Leu Gln Glu
 210 215 220
 Ile Ala Leu Met Leu Pro Glu Leu Leu Glu Arg Trp Ile Glu Arg Val
 225 230 235 240

<210> 7849
 <211> 215
 <212> PRT
 <213> Enterobacter cloacae

<400> 7849
 Lys Gln Thr Ile Arg Glu Phe Gln Met Thr Phe Glu Trp Trp Phe Ala
 1 5 10 15
 Tyr Leu Leu Thr Ser Ile Ile Leu Ser Leu Ser Pro Gly Ser Gly Ala
 20 25 30
 Ile Asn Thr Met Thr Thr Ser Ile Asn His Gly Tyr Arg Gly Ala Val
 35 40 45
 Ala Ser Ile Ala Gly Leu Gln Thr Gly Leu Gly Ile His Ile Val Leu
 50 55 60
 Val Gly Ile Gly Leu Gly Thr Leu Phe Ser Arg Ser Val Leu Ala Phe
 65 70 75 80
 Glu Val Leu Lys Trp Ala Gly Ala Ala Tyr Leu Ile Trp Leu Gly Ile
 85 90 95
 Gln Gln Trp Arg Ala Ala Gly Ser Ile Asp Leu His Thr Leu Ser Arg
 100 105 110
 Thr Gln Thr Arg Gly His Leu Phe Lys Arg Ala Val Phe Val Asn Leu
 115 120 125
 Thr Asn Pro Lys Ser Ile Val Phe Leu Ala Ala Leu Phe Pro Gln Phe
 130 135 140
 Ile Val Pro His Gln Pro Gln Val Met Gln Tyr Val Val Leu Gly Ala
 145 150 155 160
 Thr Thr Ile Ile Val Asp Ile Ile Val Met Ile Gly Tyr Ala Thr Leu
 165 170 175
 Ala Gln Arg Ile Ala Ala Trp Ile Lys Gly Pro Lys Gln Met Lys Ala
 180 185 190
 Leu Asn Lys Val Phe Gly Ser Leu Phe Met Leu Val Gly Ala Leu Leu
 195 200 205
 Ala Ser Ala Arg His Ala
 210 215

<210> 7850
 <211> 418
 <212> PRT
 <213> Enterobacter cloacae

<400> 7850
 Lys Arg Arg Gln Arg Cys Ala Ala Ala Arg Ile Thr Ile Thr Leu Lys
 1 5 10 15
 Trp Glu Ala Ile Met Thr Glu His Glu Lys Ser Ser Ala Val Val Glu
 20 25 30
 Glu Thr Arg Glu Thr Val Asp Thr Thr Ser Gln Pro Glu Thr Thr Asp
 35 40 45
 Thr Thr Val Glu Lys Lys Asn Gly Ser Asn Lys Thr Ser Leu Thr Leu

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      50              55              60
Ser Val Ile Ala Ile Ala Leu Ala Ala Gly Val Gly Leu Tyr
65              70              75              80
Gly Leu Val Lys Lys Gln Gly Thr Asn Gln Thr Ala Thr Ser Asp Ala
      85              90              95
Leu Val Asn Gln Ile Thr Ala Leu Gln Lys Ala Gln Glu Thr Gln Lys
      100              105              110
Ala Glu Leu Glu Gly Val Ile Lys Gln Gln Ala Ala Ala Leu Ala Asp
      115              120              125
Ala Asn Ser Lys Arg Glu Glu Leu Thr Lys Gln Leu Ser Glu Val Gln
      130              135              140
Glu Lys Val Ala Thr Ile Ser Gly Thr Asp Ala Lys Thr Trp Leu Leu
      145              150              155              160
Ser Gln Ala Asp Phe Leu Val Lys Leu Ala Gly Arg Lys Leu Trp Ser
      165              170              175
Asp Gln Asp Val Thr Thr Ala Ala Ala Leu Lys Ser Ala Asp Ala
      180              185              190
Ser Leu Ala Asp Met Asn Asp Pro Ser Leu Ile Asn Ala Arg Arg Ala
      195              200              205
Ile Thr Glu Asp Ile Ala Ser Leu Ser Ala Val Ser Gln Val Asp Tyr
      210              215              220
Asp Gly Ile Ile Leu Lys Val Asn Gln Leu Ser Asn Gln Ile Asp Asn
      225              230              235
Leu Gln Leu Ala Asp Asn Asn Asp Asp Ser Pro Met Asp Ser Asp
      240              245              250              255
Gly Thr Glu Leu Ser Ser Ser Leu Ser Glu Trp Arg Ile Asn Leu Gln
      260              265              270
Lys Ser Trp Gln Asn Phe Met Asp Ser Phe Ile Thr Ile Arg Arg Arg
      275              280              285
Asp Glu Thr Ala Val Pro Leu Leu Ala Pro Asn Gln Asp Val Tyr Leu
      290              295              300
Arg Glu Asn Ile Arg Ser Arg Leu Leu Val Ala Ala Gln Ala Val Pro
      305              310              315
Arg His Gln Glu Glu Thr Tyr Lys Gln Ala Leu Asp Asn Val Ser Thr
      320              325              330              335
Trp Val Arg Ala Tyr Tyr Asp Thr Asn Asp Ala Thr Thr Thr Ala Phe
      340              345              350
Leu Glu Asp Ile Asp Lys Leu Ser Gln Gln Asn Ile Thr Met Asn Val
      355              360              365
Pro Asp Lys Leu Glu Ser Gln Pro Ile Leu Glu Lys Ile Met Gln Thr
      370              375              380
Arg Val Arg Asn Leu Leu Ala Gln Pro Gly Val Pro Ala Glu Arg Pro
      385              390              395
Ala Glu Ala Pro Ala Ala Ala Pro Ala Pro Glu Ser Ala Pro Gln Gly
      400              405              410              415
Glu

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<210> 7851

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7851

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Leu Pro Leu Pro Arg Phe Leu Lys Trp His Ser Phe Ile Leu Lys His
1              5              10              15
Lys Ile Asn Ile Leu Leu Thr Thr Arg Met Pro Leu Gln Met Ser Ala
      20              25              30
Thr Leu Thr Ala Glu Glu Thr Leu Lys Leu Val Gly Glu Ile Phe Val
      35              40              45
Tyr His Met Pro Phe Asn Arg Ala Leu Gly Leu Glu Leu Glu Arg Tyr

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      50              55              60
Glu Lys Asp Phe Ala Gln Leu Ser Phe Asn Asn Gln Pro Met Met Val
65              70              75              80
Gly Asn Trp Ala Gln Ser Ile Leu His Gly Gly Val Ile Ala Ser Ala
      85              90              95
Leu Asp Val Ala Ala Gly Leu Val Cys Val Gly Ser Thr Leu Thr Arg
      100              105              110
His Asp Thr Ile Asn Glu Asp Glu Leu Arg Gln Arg Leu Ser Arg Met
      115              120              125
Gly Thr Ile Asp Leu Arg Val Asp Tyr Leu Arg Pro Gly Arg Gly Asn
      130              135              140
Arg Phe Thr Cys Thr Ser Ser Met Leu Arg Ala Gly Asn Lys Val Ala
      145              150              155              160
Val Ala Arg Val Glu Leu His Asn Glu Glu Gln Val Tyr Ile Ala Ser
      165              170              175
Ala Thr Ala Thr Tyr Met Val Gly
      180              185

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<210> 7852

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 7852

```

Arg Ile Phe Pro Met Asp Ala Lys Gln Thr Arg Gln Gly Val Leu Leu
1              5              10              15
Ala Leu Ala Ala Tyr Phe Ile Trp Gly Ile Ala Pro Ala Tyr Phe Lys
      20              25              30
Leu Ile Ala Tyr Val Pro Ala Asp Glu Ile Leu Thr His Arg Val Ile
      35              40              45
Trp Ser Phe Phe Phe Met Ile Ala Leu Met Ser Ile Ser Arg Gln Trp
      50              55              60
Ser Gly Val Lys Thr Leu Lys Thr Pro Lys Lys Val Phe Leu Leu
      65              70              75              80
Ala Leu Ser Ala Val Leu Ile Gly Gly Asn Trp Leu Leu Phe Ile Trp
      85              90              95
Ala Val Asn Asn His His Met Leu Glu Ala Ser Leu Gly Tyr Phe Ile
      100              105              110
Asn Pro Leu Val Asn Ile Leu Leu Gly Met Ile Phe Leu Gly Glu Arg
      115              120              125
Phe Arg Arg Met Gln Trp Val Ala Val Ile Leu Ala Phe Cys Gly Val
      130              135              140
Leu Val Gln Leu Trp Thr Phe Gly Ser Leu Pro Val Ile Ala Leu Gly
      145              150              155              160
Leu Ala Phe Ser Phe Ala Phe Tyr Gly Leu Val Arg Lys Lys Ile Ala
      165              170              175
Val Glu Ala Gln Thr Gly Met Leu Phe Glu Thr Leu Trp Leu Leu Pro
      180              185              190
Val Ala Ala Ile Tyr Leu Phe Gly Ile Ala Asp Ser Ala Thr Ser His
      195              200              205
Met Gly Ser Asn Pro Trp Ser Leu Asn Leu Met Leu Ile Ala Ala Gly
      210              215              220
Val Val Thr Thr Ile Pro Leu Leu Cys Phe Thr Gly Ala Ala Thr Arg
      225              230              235              240
Leu Arg Leu Ser Thr Leu Gly Phe Phe Gln Tyr Ile Gly Pro Thr Leu
      245              250              255
Met Phe Leu Leu Ala Val Val Phe Tyr Gly Glu Val Pro Gly Ala Asp
      260              265              270
Lys Met Val Thr Phe Ala Phe Ile Trp Val Ala Leu Ala Ile Phe Val
      275              280              285
Ala Asp Ala Ile Tyr Thr Gln Arg Arg Val Arg Lys Gly Leu

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290

295

300

<210> 7853

<211> 252

<212> PRT

<213> *Enterobacter cloacae*

<400> 7853

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Arg Arg Ala Pro Cys Met Ser Ile Leu Val Thr Arg Pro Ser Pro Ala
1      5      10      15
Gly Glu Gln Leu Val Ser Arg Leu Arg Ala Leu Gly Gln Val Ala Trp
20      25      30
Ser Phe Pro Leu Ile Glu Phe Ser Pro Gly Arg Glu Leu Pro Glu Leu
35      40      45
Ala Asp Gln Met Arg Leu Leu Gln Glu Gly Asp Leu Leu Phe Ala Leu
50      55      60
Ser Gln His Ala Val Glu Phe Ala His Ala Gln Leu Gln Gln Gly
65      70      75      80
Val Arg Trp Pro His Ala Pro Arg Tyr Phe Ala Ile Gly Arg Thr Thr
85      90      95
Ala Leu Ala Leu His Thr Ala Ser Gly Ile Asp Val Arg Tyr Pro Leu
100     105     110
Asp Arg Glu Ile Ser Glu Val Leu Leu Gln Leu Pro Glu Leu Gln Asn
115     120     125
Ile Ala Gly Lys Arg Thr Leu Ile Leu Arg Gly Asn Gly Gly Arg Glu
130     135     140
Leu Leu Gly Glu Thr Leu Arg Glu Arg Gly Ala Asp Val Thr Phe Val
145     150     155     160
Glu Cys Tyr Gln Arg Cys Ala Lys His Tyr Asp Gly Ala Glu Glu Ala
165     170     175
Met Arg Trp His Ala Arg Gly Ile Asn Thr Leu Val Thr Ser Gly
180     185     190
Glu Met Leu Gln Gln Leu Trp Ser Leu Ile Pro Leu Trp Tyr Arg Glu
195     200     205
Asn Trp Leu Leu Arg Cys Arg Leu Leu Val Val Ser Glu Arg Leu Ala
210     215     220
Asn His Ala Arg Glu Leu Gly Trp Gln Asp Ile Arg Ile Ala Glu Asn
225     230     235     240
Ala Asp Asn Asp Ala Leu Leu Arg Ala Leu Gln
245     250

```

<210> 7854

<211> 120

<212> PRT

<213> *Enterobacter cloacae*

<400> 7854

```

Arg Tyr Thr Ala Ala Ile Thr Lys Asn Arg Asn Lys Thr Met Asn Asp
1      5      10      15
Ser Glu Phe His Arg Leu Ala Asp Thr Leu Trp Met Thr Ile Glu Glu
20      25      30
Arg Ile Asp Asp Trp Asp Gly Asp Ser Asp Ile Asp Cys Glu Ile Asn
35      40      45
Gly Gly Ile Leu Thr Leu Ser Phe Glu Asn Gly Ser Lys Ile Ile Ile
50      55      60
Asn Arg Gln Glu Pro Leu His Gln Val Trp Leu Ala Ala Lys Gln Gly
65      70      75      80
Gly Tyr His Phe Asp Leu Lys Gly Asp Glu Trp Val Cys Asp Arg Ser
85      90      95
Gly Glu Thr Phe Trp Asp Leu Leu Glu Gln Ala Ala Thr Ala Gln Ala
100     105     110

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Gly Glu Asp Val Ser Phe Arg
115 120

<210> 7855

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7855

Arg Leu Ile Met Thr Val Thr Ser Met Leu Asp Asn Val Leu Arg Ile
1 5 10 15
Ala Thr Arg Gln Ser Pro Leu Ala Leu Trp Gln Ala His Tyr Val Lys
20 25 30
Gln Arg Leu Glu Ala Cys His Thr Gly Leu Arg Val Glu Leu Val Pro
35 40 45
Met Val Thr Arg Gly Asp Val Ile Leu Asp Thr Pro Leu Ala Lys Val
50 55 60
Gly Gly Lys Gly Leu Phe Val Lys Glu Leu Glu Leu Ala Leu Leu Glu
65 70 75 80
Asn Arg Ala Asp Ile Ala Val His Ser Met Lys Asp Val Pro Val Glu
85 90 95
Phe Pro Glu Gly Leu Gly Leu Val Thr Ile Cys Glu Arg Glu Asp Pro
100 105 110
Arg Asp Ala Phe Val Ser Asn Arg Tyr Asp Ser Leu Asp Ala Leu Pro
115 120 125
Ala Gly Ser Val Val Gly Thr Ser Ser Leu Arg Arg Gln Cys Gln Leu
130 135 140
Ala Glu Arg Arg Pro Asp Leu Val Ile Arg Ser Leu Arg Gly Asn Val
145 150 155 160
Gly Thr Arg Leu Gly Lys Leu Asp Asn Gly Asp Tyr Asp Ala Ile Ile
165 170 175
Leu Ala Val Ala Gly Leu Lys Arg Leu Gly Leu Glu Glu Arg Ile Arg
180 185 190
Val Ala Leu Pro Pro Glu Leu Ser Leu Pro Ala Val Gly Gln Gly Ala
195 200 205
Val Gly Ile Glu Cys Arg Leu Asp Asp Val Arg Thr Gln Ala Leu Leu
210 215 220
Ala Pro Leu Asn His Asp Asp Thr Ala Val Arg Val Lys Ala Glu Arg
225 230 235 240
Ala Met Asn Thr Arg Leu Glu Gly Gly Cys Gln Val Pro Ile Gly Ser
245 250 255
Tyr Ala Glu Leu Thr Asp Gly Glu Leu Trp Leu Arg Ala Leu Val Gly
260 265 270
Ala Pro Asp Gly Ser His Met Val Arg Gly Glu Arg Arg Gly Lys Pro
275 280 285
Gln Asp Ala Glu Ala Leu Gly Val Ser Leu Ala Glu Glu Leu Leu Asn
290 295 300
Asn Gly Ala Arg Glu Ile Leu Ala Glu Val Tyr Asn Gly Glu Pro Pro
305 310 315 320
Ala

<210> 7856

<211> 408

<212> PRT

<213> Enterobacter cloacae

<400> 7856

Lys Arg Ala Ala Arg Arg Val Met Met Leu Lys Val Phe Leu Leu Phe
1 5 10 15
Ile Leu Leu Ile Ala Gly Ile Val Leu Gly Pro Met Leu Ala Gly His

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<210> 7857
<211> 408
<212> PRT
<213> Enterobacter cloacae
```

<400> 7857
Lys Asp Ile Val Met Asn Ser Leu Leu Tyr Ala Leu Phe Glu Ala Leu
1 5 10 15
Arg Cys Tyr Arg Trp Leu Arg Leu Leu Ala Cys Ala Phe Ile Phe Ser
20 25 30
Ser Leu Gly Asn Gly Leu Thr Gln Val Val Val Phe Gly Leu Leu Leu

```

      35              40              45
Gln Trp Ser Ala Pro Ser Ala Leu Leu Thr Leu Ala Phe Leu Phe Ala
50              55              60
Thr Val Pro Gly Phe Ile Gly Ser Leu Ile Gly Glu Lys Leu Cys Gln
65              70              75
Arg Phe Ser Pro Leu Tyr Leu Leu Met Leu Thr Glu Trp Leu Gly Leu
      85              90              95
Leu Ala Leu Leu Phe Pro Leu Ser Gly Ala His Tyr His Ser Ile Pro
100              105              110
Ala Leu Leu Ala Val Gln Ser Thr Glu Ala Leu Leu Ser Gly Met Ser
115              120              125
Trp Pro Ala Leu Thr Leu Leu Phe Lys Arg Gly Leu His Glu Ala Glu
130              135              140
Leu Pro Ala Ala Thr Cys Leu Glu Asn Val Ile Phe Ala Ser Gln Val
145              150              155
Leu Leu Gly Thr Gly Leu Gly Val Val Leu Phe Gln Arg Ile Pro Val
      165              170              175
Phe Ala Leu Leu Val Ile Asp Ala Ala Ser Phe Met Gly Ser Leu Val
180              185              190
Met Leu Phe Leu Ala Glu Arg Gln Tyr Val Ala Arg Pro Ala Pro Leu
195              200              205
Pro Val Gly Asp Pro Gln Pro Val Ala Leu Arg Trp Gln Thr Leu Thr
210              215              220
Leu Arg Gln Lys Arg Ser Leu Leu Ile Leu Pro Ala Leu Ala Ala Val
225              230              235
Gly Ser Pro Ala Met Ala Leu Leu Pro Ala Leu Ala Gln Gln Ile Asn
      245              250              255
Pro Glu Asn Ala Ala Gly Leu Ala Leu Pro Leu Leu Phe Ala Arg Ser
260              265              270
Leu Gly Gln Leu Cys Gly Pro Leu Leu Leu Arg Lys Glu Ser Leu Thr
275              280              285
Arg Phe Ala Ala Arg Thr Pro Leu Leu Leu Ser Cys Leu Ala Leu Phe
290              295              300
Leu Ala Ala Tyr Gly Leu Leu Pro Phe Leu Ser Ala Trp Val Val Leu
305              310              315
Ala Leu Gly Met Ile Phe Ile Ala His Leu Ala Ser Asn Ile Val Phe
      325              330              335
Ala Ala Gly Thr Phe Gly Val Leu Ser Asn Phe Gln Ala Ile Gln Ile
340              345              350
Ser Ala Ala Ser Gly Lys Ala Trp Arg Trp Gln Thr Leu Ser Ala Ser
355              360              365
Leu Phe Thr Gly Leu Ala Ala Met Thr Ala Thr Ile Leu Gly Ala Ala
370              375              380
Gln Thr Leu Tyr Ala Val Ser Ala Ile Ala Leu Leu Leu Val Ala Leu
385              390              395
Val Leu Ala His Tyr Arg Glu
400

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<210> 7858

<211> 1027

<212> PRT

<213> Enterobacter cloacae

<400> 7858

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Pro Val Asn Asn Ser Thr Ser His Ser Leu Ala Val Lys Thr Pro Leu
1              5              10
Ser Arg Leu Tyr Leu Ala Leu Phe Ser Ala Pro Leu Leu Leu Phe Leu
20              25              30
Pro Ala Asp Ile Ala Arg Ala Ala Asp Ala Phe Phe Asp Gly Asp Ser
35              40              45
Arg Ile Thr Glu Thr Leu Gly Tyr Thr Gly Asp Val Tyr Val Gly Arg

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50	55	60
Asn Gln Arg Gly Asn Leu Ile Asp Asn Gly Lys Ile Thr Ala Tyr		
65	70	75
Asn Ile Asn Ile Gly Arg Leu Phe Asp Gly Lys Ile Tyr Glu Ser Val		80
	85	90
Val Thr Val Arg Gly Pro Asp Ala Glu Leu Asn Ala Val Asn Asp Arg		95
	100	105
Tyr Val Leu Arg Gly Asp Leu Asn Leu Gly Leu Gly Thr Leu Arg Val		110
	115	120
Glu Glu Gly Ala Leu Ala Ser Ala Lys Glu Ile Val Val Gly Thr Thr		125
	130	135
Arg Gly Tyr Asp Ser His Leu Ile Ala Thr Gly Ala Gly Ser Arg Val		140
	145	150
Thr Ser Asn Phe Leu Ser Val Gly Thr Asp Leu Gly Ala Arg Ser Thr		155
	165	170
Leu Ala Ile Glu Asp Gly Ala Ala Leu Asn Thr Ala Tyr Asp Ala Arg		175
	180	185
Ile Gly Asn Gly Thr Gly Pro Gly Glu Thr Asp Thr Leu Ser Pro Lys		190
	195	200
Ala Thr Val Thr Gly Ser Gly Ser Gln Trp Asn Val Gly Arg Thr Leu		205
	210	215
Thr Leu Tyr Gly Asp Leu Asp Val Leu Asn Gly Thr Val Asn Val		220
	225	230
Gly Gly Val Gln Val Ala Gly Val Ser Gly Ala Gly Lys Thr Ala Glu		235
	245	250
Leu Val Ile Ala Gly Glu Asp Ser Arg Phe Thr Ser Gly Ser Ser Val		255
	260	265
Ser Val Gly Asp Tyr Gly Asn Gly Val Leu Ser Val Ile Asp Gly Gly		270
	275	280
Ser Phe Ser Ala Gly Ser Asn Ala Leu Ile Val Gly Thr Ser Gly Ser		285
	290	295
Gly Ser Asn Arg Gly Ala Leu Ile Ile Gly Ser Arg Gly Asn Met Asp		300
	305	310
Thr Gly Thr Gly Leu Thr Glu Pro Thr Leu Gly Thr Ala Gly Gly Ala		315
	325	330
Gly Thr Leu Asp Ala Lys Thr Ala Ile Ser Leu Arg Gly Gly Leu Phe		335
	340	345
Gly Ser Tyr Val Tyr Phe Asn His Thr Asp Gly Asn Tyr Ile Phe Ser		350
	355	360
Asn Thr Met Ser Gly Glu Gly Asp Val Ile Asn Thr Ser Gly Gln Thr		365
	370	375
Thr Leu Asn Gly Asp Leu Ser Ala Leu Lys Ala Asn Val Thr Ala Arg		380
	385	390
Gly Gly Lys Val Ile Ala Ser Asn Ile Asn Thr Gln Pro Glu Asp		395
	405	410
Asp Ile Phe Asp Val Gln Thr Leu Ser Ala Glu Asn Gly Gly Thr Leu		415
	420	425
Ile Leu Asn Ala Thr Ala Gly Ser Asp Val Ser Asn Gly Val Gly Tyr		430
	435	440
Ser Ser Ala Ala Ser Ile Lys Ser Gly Gly Thr Leu Gly Gly Asn Gly		445
	450	455
Thr Leu Gly Gln Thr Glu Ile Leu Ser Gly Gly His Ile Ser Pro Gly		460
	465	470
Asp Gly Thr Ile Gly Thr Leu Thr Leu Lys Arg Tyr Leu Asn Phe Ile		475
	485	490
Gly Glu Ser Phe Tyr Asp Val Asp Ile Ala Gly Asp Gly Arg Ser Asp		495
	500	505
Gln Leu Leu Val Ser Gly Lys Thr Thr Ile Ser Asn Gln Ala Lys Val		510
	515	520
Gln Val Thr Ala Leu Asp Pro Gln Thr Ser Tyr Lys Thr Gly Gln Ser		525
	530	535
		540

Tyr Arg Ile Leu Thr Ser Asp Gly Gly Ile Asp Gly Glu Phe Ala Gly
 545 550 555 560
 Ala Ile Ser Lys Ser Ala Phe Leu Asp Val Ala Leu Lys Gln Ser Thr
 565 570 575
 Asn Ala Val Asp Leu Thr Ile Ala Gln Lys Glu Thr Gly Gly Glu Asn
 580 585 590
 Pro Gly Gly Glu Asn Pro Gly Gly Glu Asn Pro Gly Gly Glu Asn Pro
 595 600 605
 Gly Gly Glu Asn Pro Gly Gly Glu Asn Pro Gly Gly Glu Asn Pro Gly
 610 615 620
 Gly Glu Asn Pro Gly Gly Glu Asn Pro Gly Gly Glu Asn Pro Gly Gly
 625 630 635 640
 Glu Asn Pro Gly Gly Glu Asn Pro Gly Ser Gly Lys Pro Gly Ile Phe
 645 650 655
 Gln Thr Val Ala Gln Ser Ser Asn Gln Trp Asn Thr Ala Glu Ala Leu
 660 665 670
 Ser Thr Leu Thr Gln Ser Gly Gln Ser Leu Ala Leu Tyr Asn Ser Leu
 675 680 685
 Leu Leu Leu Ser Ala Pro Glu Ala Arg Glu Ala Phe Asn Gln Leu Ser
 690 695 700
 Gly Glu Val Tyr Pro Ser Met Gln Ser Asn Leu Ile Ala Gly Ser Thr
 705 710 715 720
 Gln Val Phe Asn Val Leu Asn Gln Arg Met Gln Arg Ala Phe Asp Asn
 725 730 735
 Asp Ser Leu Pro Ile Pro Pro Leu Ala Met Ser Leu Val Gln Gln Pro
 740 745 750
 Glu Pro Gln Asn Asn Gly Val Trp Gly Gln Thr Phe Ser Ser Trp Ser
 755 760 765
 Arg Asn Ser Gly Asp Gly Asn Val Gly Lys Leu Asp Gly Asn Thr Thr
 770 775 780
 Gly Phe Leu Leu Gly Ala Asp Arg Lys Leu Ala Asp His Asn Val Arg
 785 790 795 800
 Val Gly Gly Tyr Phe Gly Tyr Ser Arg Gly Asp Tyr Asp Val Asp Ser
 805 810 815
 Arg Arg Ser Ser Thr Asp Thr Asp Asn Tyr His Leu Gly Leu Tyr Ala
 820 825 830
 Ala Gly Gln Gln Asp Ala Phe Ser Leu Arg Gly Ala Leu Gly Tyr Thr
 835 840 845
 Trp His Lys Ile Glu Gly Glu Arg Asn Val Asp Phe Ser Gly Phe Ser
 850 855 860
 Asp Arg Leu Lys Ser Asp Tyr Asp Ala Asn Ser Leu Leu Ala Phe Thr
 865 870 875 880
 Glu Ala Gly Tyr Arg Phe Gly Gln Pro Asp Arg Asn Ile Glu Pro Phe
 885 890 895
 Val Asn Leu Ser Tyr Ile Arg Leu His Thr Asp Ser Phe Arg Glu Asp
 900 905 910
 Gly Gly Ala Ala Ala Leu Ser Val Arg Asn Glu Thr Met Asn Thr Phe
 915 920 925
 Tyr Thr Thr Leu Gly Leu Arg Gly Val Thr Glu Leu Pro Lys His Val
 930 935 940
 Asn Leu Tyr Gly Ser Leu Gly Trp Gln His Ala Tyr Gly Asp Lys Asn
 945 950 955 960
 Thr Ser Ser Arg Met Ala Phe Ala Gly Ser Asp Ala Phe Ile Thr Gln
 965 970 975
 Gly Gln Ala Val Asp Glu Asp Val Met Val Gly Asp Ile Gly Val Ser
 980 985 990
 Val Gln Leu Ser Arg Ala Ala Thr Leu Asp Val Gly Tyr Gln Gly Gln
 995 1000 1005
 Tyr Gly Ala Asp Thr Arg Val Asn Ser Val Asn Ala Asn Leu Arg Trp
 1010 1015 1020
 Ser Phe

1025

<210> 7859

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 7859

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Pro Gly Gly Ser Pro Pro Phe Phe Arg Asp Glu Lys Asn Ala Ser Ala
1      5      10      15
Arg Val Arg Lys Glu Pro Arg Met Ser Asp Gln Thr Leu Lys Ala Thr
      20      25      30
Arg Gln Gln Ser Leu Ile Thr Leu Ser Gln Ser Asp Trp Leu Thr
      35      40      45
Thr Glu Val Leu Ala Glu Lys Leu Ser Val Ser Lys Glu Thr Ile Arg
      50      55      60
Arg Asp Leu Lys Ser Leu Gln Gln Gln Gly Lys Leu Leu Arg Gln His
65      70      75      80
Gly Arg Ala Arg Leu Ile His Pro Asp Ser Arg Asp Ser Gly Glu Pro
      85      90      95
Phe Gly Ala Arg Leu Lys Ser His Tyr Ala Asp Lys Ala Asp Ile Ala
      100      105      110
Arg His Ala Leu Gly Trp Ile Ser Glu Gly Met Thr Ile Ala Leu Asp
      115      120      125
Ala Ser Ser Thr Cys Phe His Leu Ala Arg Gln Leu Pro Asp Ile Asp
      130      135      140
Leu Thr Val Phe Thr Asn Ser Leu Pro Val Cys His Glu Met Ala Lys
145      150      155      160
Arg Glu Arg Ile Thr Leu Ile Cys Ser Gly Gly Thr Leu Glu Arg Lys
      165      170      175
Tyr Arg Cys Tyr Val Asn Pro Ala Leu Val Thr Gln Leu Lys Gly Leu
      180      185      190
Glu Ile Asp Leu Phe Ile Phe Ser Cys Glu Gly Val Asp Glu His Gly
      195      200      205
Val Leu Trp Asp Pro Ser Glu His Asn Ala Gly Phe Lys Ala Leu Leu
      210      215      220
Leu Asn Arg Ala Ser Gln Ser Leu Leu Leu Ile Asp Lys Ser Lys Phe
225      230      235      240
Met Arg Ala Ser Glu Val Lys Ile Gly Gln Leu Ser Gln Val Thr Gln
      245      250      255
Ile Ile Gln Ser Asp Lys Arg Gln Ala Ala Arg Asp Gly Leu Thr Arg
      260      265      270

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<210> 7860

<211> 116

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (51)

<220>

<221> UNSURE

<222> (53)

<220>

<221> UNSURE

<222> (54)

<400> 7860

Leu Leu Arg Asn Ala Gly Arg Val Arg Arg Arg Arg His Pro Ala Gly
 1 5 10 15
 Lys Ala Ala Arg Ala Phe Val Leu Leu Arg Gly Arg Phe Leu Phe Ala
 20 25 30
 Asp Gln Thr Asn Leu Gln Val Ala Arg Leu Met Gln Arg Val His Tyr
 35 40 45
 Leu His Xaa Pro Xaa Xaa Gly Phe Ser Ile Ile Asp Gly Phe Ile Arg
 50 55 60
 Ala Glu Glu Asp Gly Gly Val Phe Leu Ala Ala Gly Glu Leu Val Gln
 65 70 75 80
 Arg Arg Asn Asn Arg Gly Ile Arg Tyr Arg Ile Val Ala Gln Glu His
 85 90 95
 Gly Leu Met Ala Leu His Leu Phe Ile Thr Arg Arg Gln Glu Ala Glu
 100 105 110
 Lys Val Val
 115

<210> 7861

<211> 671

<212> PRT

<213> Enterobacter cloacae

<400> 7861

Ala Pro Leu Arg Arg Gln Thr Arg Glu Gln Ser Leu Arg His Val Arg
 1 5 10 15
 Cys Asp Phe Thr Leu Leu Arg Met Asn Met Leu Asn Thr Arg Phe Ser
 20 25 30
 Val Ser Leu Ile Val Ile Gly Trp Leu Cys Leu Ser Ala Ser Leu Cys
 35 40 45
 Ala Gln Pro Leu Ser Phe Met Ala Pro Glu Glu Arg Pro Gln Leu Glu
 50 55 60
 Ala Ser Lys Pro Trp Pro Glu Asn Gln Phe Leu Val Leu Ala Tyr His
 65 70 75 80
 Asp Val Glu Asp Asp Ala Ala Asp Gln Arg Tyr Leu Ser Val Arg Thr
 85 90 95
 Ser Ala Leu Asn Glu Gln Ile Ser Trp Leu His Asn Gly Tyr His
 100 105 110
 Ala Ile Ser Val Gln Asp Ile Leu Asp Ala His Glu Gly Lys Lys Ala
 115 120 125
 Leu Pro Pro Lys Ala Val Leu Leu Ser Phe Asp Asp Gly Tyr Ser Ser
 130 135 140
 Phe Tyr Thr Arg Val Trp Pro Leu Leu Gln Ala Trp Asn Val Pro Ala
 145 150 155 160
 Leu Trp Ala Pro Val Gly Ser Trp Val Asp Thr Pro Ala Asn Gln Lys
 165 170 175
 Val Asn Phe Gly Gly Leu Met Thr Pro Arg Asp Arg Phe Ala Thr Trp
 180 185 190
 Asp Met Val Arg Glu Leu Ser Gln Ser Pro Leu Ile Glu Ile Gly Ser
 195 200 205
 His Thr Trp Ala Ser His Tyr Gly Ile Pro Ala Asn Pro Gln Gly Ser
 210 215 220
 Arg Glu Pro Ala Ile Ala Asn Arg Phe Phe Asp Asn Ala Thr Gly His
 225 230 235 240
 Tyr Glu Thr Asp Glu His Phe Asn Gln Arg Ile Ala Ala Asp Val Arg
 245 250 255
 Lys Val Thr Asp Lys Ile Thr Gln Val Thr Gly Lys Ala Pro Arg Ala
 260 265 270
 Trp Val Trp Pro Tyr Gly Ala Ala Asn Gly Thr Ser Leu Ala Ile Ala
 275 280 285

Gln Lys Gln Gly Tyr Gln Leu Ala Phe Thr Leu Glu Asp Gly Leu Ala
 290 295 300
 Asn Val Arg Asp Leu Gly Asn Ile Pro Arg Leu Leu Ile Ala Gly Asn
 305 310 315 320
 Pro Ser Ile Lys Thr Phe Ala Asn Thr Val Ser Arg Val Gln Glu Phe
 325 330 335
 Glu Pro Val Arg Val Met His Val Asp Leu Asp Tyr Val Tyr Asp Pro
 340 345 350
 Asp Pro Ala Gln Gln Thr Lys Asn Ile Asn Lys Leu Val Gln Arg Val
 355 360 365
 Tyr Asp Met Lys Ile Ser His Val Phe Leu Gln Ala Phe Ser Asp Pro
 370 375 380
 Arg Gly Asp Gly Arg Ile Ser Ala Leu Tyr Phe Pro Asn Arg Arg Leu
 385 390 395 400
 Pro Val Arg Ala Asp Leu Phe Asn Phe Val Ala Trp Gln Leu Gln Thr
 405 410 415
 Arg Ala Gly Val Lys Val Phe Ala Trp Met Pro Val Leu Ser Phe Asp
 420 425 430
 Leu Ser Pro Ala Leu Pro Arg Val Gln Arg Arg Glu Arg Gln Thr Gly
 435 440 445
 Glu Leu Thr Val Ala Ala Glu Pro Tyr Ile Arg Leu Ser Pro Trp Ser
 450 455 460
 Pro Gln Val Arg Gln Gln Val Thr Glu Ile Tyr Glu Asp Leu Ala Arg
 465 470 475 480
 Tyr Ala Ser Phe Asn Gly Ile Leu Phe His Asp Asp Ala Val Leu Thr
 485 490 495
 Asp Val Asp Asp Ala Gly Gln Asp Thr Thr Arg Gln Lys Ser Gln Arg
 500 505 510
 Leu Ile Gly Phe Thr Arg Thr Leu Ser Gln Ala Val Lys Asn Ile Arg
 515 520 525
 Gly Pro Gln Ile Lys Thr Ala Arg Asn Met Phe Ala Leu Pro Ile Leu
 530 535 540
 Glu Pro Glu Ser Glu Ala Trp Phe Ala Gln Asn Leu Asp Asp Phe Leu
 545 550 555 560
 Ala Ala Tyr Asp Trp Thr Val Pro Met Ala Met Pro Leu Met Glu Ser
 565 570 575
 Val Pro Ala Glu Glu Ser Asn Ala Trp Leu Thr Arg Leu Val Lys Ala
 580 585 590
 Val Ala Glu Arg Pro Gly Ala Leu Asn Lys Thr Ile Phe Glu Leu Gln
 595 600 605
 Ala Arg Asp Trp Ala Gln Lys Pro Gln Arg Ala Val Ala Asp Gly Arg
 610 615 620
 Leu Val Glu Trp Met Arg Val Leu Gln Leu Asn Gly Ile Lys Asn Tyr
 625 630 635 640
 Gly Tyr Tyr Pro Asp Asp Phe Leu Asn Asn Gln Pro Asp Ile Ser Arg
 645 650 655
 Ile Arg Pro Glu Phe Ser Ser Tyr Trp Tyr Pro Asp Asn Asp
 660 665 670

<210> 7862

<211> 149

<212> PRT

<213> *Enterobacter cloacae*

<400> 7862

Arg Glu His Ser Met Asn Glu Ser Thr Leu Ile Leu Thr Glu His Arg
 1 5 10 15
 Leu Ala Pro Arg Leu Phe Asp Ala Ala Leu Thr Leu Ile Ala Trp Gly
 20 25 30
 Gly Phe Leu Phe Phe Leu Tyr Ala Arg Leu Trp Met Gln Leu Thr Glu
 35 40 45

Glu Gly Asp His Arg Trp Asn Ala Ile Ile Ala Ser Phe Asn Thr Val
 50 55 60
 Leu Val Tyr Leu Leu Ile Ala Ala Phe Asn Gly Trp Leu Leu Ile Leu
 65 70 75 80
 Trp Tyr Gln Tyr Asn Arg Arg Arg Ala His Val Arg Arg Arg His Pro
 85 90 95
 Glu Met Leu Arg His Asp Glu Leu Ala Gln Ser Phe Asn Val Thr Pro
 100 105 110
 Gln Ile Met Ser Glu Met Ser Gln Tyr Asn Leu Leu Thr Val Tyr His
 115 120 125
 Asp Gln Ile Gly Arg Ile Ile Asp Leu Lys Ile Ser Glu Gln Gln Asp
 130 135 140
 Glu Lys Glu Glu
 145

<210> 7863

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7863

Asn Tyr Glu Ala Ser Ser Leu Ser Ile Pro Cys Arg Glu Gly Glu Phe
 1 5 10 15
 Ala Gln Arg Arg Val Leu Pro Ser Leu Ser Ala Asp Thr Val Glu Asn
 20 25 30
 Ile Leu Phe Ser Leu Ser Ser Arg His Arg Met Lys Thr Leu Phe Arg
 35 40 45
 Lys Phe Thr Asp Lys Lys Gly Asp Ile Met Ser Trp His Pro Tyr Thr
 50 55 60
 Gly Arg Tyr Glu Asn Met Gln Tyr Arg Tyr Cys Gly Lys Ser Gly Leu
 65 70 75 80
 Arg Leu Pro Ala Leu Ser Leu Gly Leu Trp His Ser Phe Gly His Val
 85 90 95
 Gln Pro Leu Asp Ser Gln Arg Ala Leu Leu Arg Lys Ala Phe Asp Leu
 100 105 110
 Gly Ile Thr His Phe Asp Leu Ala Asn Asn Tyr Gly Pro Pro Gly
 115 120 125
 Ser Ala Glu Glu Asn Phe Gly Arg Leu Leu Arg Glu Asp Phe Ala Gly
 130 135 140
 Tyr Arg Asp Glu Leu Ile Ile Ser Thr Lys Ala Gly Tyr Asp Met Trp
 145 150 155 160
 Pro Gly Pro Tyr Gly Ser Gly Gly Ser Arg Lys Tyr Leu Leu Ala Ser
 165 170 175
 Leu Asp Gln Ser Leu Asn Arg Met Gly Val Glu Tyr Val Asp Ile Phe
 180 185 190
 Tyr Ser His Arg Val Asp Glu Asn Thr Pro Met Glu Glu Thr Ala Ala
 195 200 205
 Ala Leu Ala His Ala Val Gln Ser Gly Lys Ala Leu Tyr Val Gly Ile
 210 215 220
 Ser Ser Tyr Ser Thr Glu Arg Thr Ala Ala Met Thr Lys Leu Leu Arg
 225 230 235 240
 Glu Trp Lys Ile Pro Leu Leu Ile His Gln Pro Ser Tyr Asn Leu Leu
 245 250 255
 Asn Arg Trp Val Asp Lys Thr Gly Leu Leu Asp Ala Leu Glu Lys Asn
 260 265 270
 Gly Thr Gly Cys Ile Ala Phe Thr Pro Leu Ala Gln Gly Leu Leu Thr
 275 280 285
 Gly Lys Tyr Leu Asn Gly Ile Pro Asp Gly Ser Arg Met Gln Arg Glu
 290 295 300
 Gly Lys Lys Val Arg Gly Leu Thr Glu Lys Met Leu Thr Glu Ala Asn
 305 310 315 320

Leu Ser Ser Leu Arg Leu Leu Asn Glu Met Ala His Ala Arg Gly Gln
 325 330 335
 Thr Met Ala Gln Met Ala Leu Ser Trp Leu Leu Lys Asp Glu Arg Val
 340 345 350
 Thr Ser Val Leu Ile Gly Ala Ser Arg Pro Glu Gln Leu Glu Glu Asn
 355 360 365
 Val Gln Ala Leu Asn Asn Leu Arg Phe Ser Glu Asp Glu Leu Met Arg
 370 375 380
 Ile Asp Gln His Val Ala Asp Gly Glu Leu Asn Leu Trp Gln Ala Ser
 385 390 395 400
 Ser Asp Lys

<210> 7864

<211> 808

<212> PRT

<213> Enterobacter cloacae

<400> 7864

Leu His Tyr Val Ile Leu Leu Ser His His Asn Ile Ile Val Pro Ala
 1 5 10 15
 Phe Thr Ala Pro Pro Val Leu Val Gln Ala Asp Glu Ser Val Tyr Glu
 20 25 30
 His Gln Ile Gln Gln Ala Arg Asn Gly Asn Tyr Ala Leu Phe Leu Asp
 35 40 45
 Tyr Leu Gln Arg Tyr Glu Gln Gln His Ala Leu Thr Pro Gly Gln Val
 50 55 60
 Ala Asp Trp Leu Gln Val Ala Ser Trp Ala Gly Arg Asp Asp Glu Val
 65 70 75 80
 Ile Arg Val Trp Gln Arg Tyr Gly Ile Tyr Met Pro Leu Pro Ala Arg
 85 90 95
 Ala Ile Ala Ala Val Ala Gln Ser Arg Arg Asn Gln Lys Ala Trp Pro
 100 105 110
 Ser Ala Leu Ser Leu Trp Lys Glu Ala Leu Ser Leu Ala Pro Asp Asn
 115 120 125
 Asp Asp Tyr Arg Ile Gly Tyr Val Lys Thr Leu Ala Asp Ala Ser Lys
 130 135 140
 Asp Arg Leu Ala Leu Ser Glu Ala Arg Gln Leu Val Lys Asp Asn Pro
 145 150 155 160
 Ser Pro Ala His Leu Glu Thr Leu Ser Tyr Val Trp Met Arg Gln Gly
 165 170 175
 Lys Asn Arg Asp Arg Leu Leu Ala Asp Met Arg Ala Leu Ser Ala Ala
 180 185 190
 Pro Gly Asn Glu Ala Leu Leu Arg Glu Thr Ile Asp Ala Leu Thr Asp
 195 200 205
 Asn Arg Val Ser Thr Pro Ala Leu Trp Leu Ser Gln Asn Ala Ala Leu
 210 215 220
 Ser Pro Ala Glu Arg Arg Arg Leu Glu Arg Asn Ala Ala Glu Arg
 225 230 235 240
 Val Arg Leu Ala Asp Val Pro Gly Arg Thr Glu Lys Glu Arg Leu Arg
 245 250 255
 Leu Ala Gln Asn Ala Leu Asp Arg Tyr His Ala Leu Leu Ser Arg Trp
 260 265 270
 Gln Asn Asp Pro Gln Ala Ala Glu Asp Val Ile Leu Ala Arg Ile Asp
 275 280 285
 Arg Leu Gly Ala Leu Tyr Ala Gln Gly Asn Tyr Arg Gln Val Ile Ser
 290 295 300
 Glu Tyr Glu Ser Leu Thr Ala Ala Gln His Pro Val Pro Asp Trp Ala
 305 310 315 320
 Ile Gly Trp Val Ile Ser Ala Tyr Leu Gln Glu Lys Asn Thr Val Ala
 325 330 335

Ala Phe Ser Leu Val Gln Arg Tyr Pro His Tyr Ala Ser Asp Pro Gln
 340 345 350
 Asp Glu Glu His Ala Leu Phe Tyr Ala Trp Leu Asp Thr Gly Gln Tyr
 355 360 365
 Gln Ala Ala Arg Arg Tyr Val Glu Arg Glu Thr Arg Ser Val Pro Trp
 370 375 380
 Thr Arg Tyr Asp Phe Gly Ser Pro Ala Ala Gln Pro Asn Asp Arg Trp
 385 390 395
 Leu Thr Gly Gln Ser Leu Lys Phe Asn Tyr Leu Leu Ala Thr Asn Ala
 405 410 415
 Leu Pro Glu Ala Glu Lys Leu Ser Tyr Arg Leu Ala Ser Thr Ala Pro
 420 425 430
 Gly Asn Gln Gly Leu Gln Ile Asp Tyr Ala Ala Leu Leu Gln Ala Arg
 435 440 445
 Gly Leu Pro Arg Ala Ala Glu Gln Lys Leu Lys Arg Ala Glu Ala Leu
 450 455 460
 Glu Pro Thr Asn Leu Glu Leu Glu Lys Gln Gln Ala Tyr Val Ala Met
 465 470 475
 Asp Leu Gln Glu Trp Arg Gln Met Asp Leu Leu Ala Asp Asn Val Ile
 485 490 495
 Ala Arg Ala Pro Ala Asp Arg Ser Ala Arg Arg Leu Asp Arg Leu Arg
 500 505 510
 Met Val His His Met Ser Glu Leu Arg Leu Asn Ala Ala Lys Gly Leu
 515 520 525
 His Ser Asp Asn Pro Val Ser Gly Ser His Asp Met Asn Trp Asp Ala
 530 535 540
 Thr Leu Tyr Gly Pro Pro Val Ala Asp Asn Trp Arg Leu Phe Ala Gly
 545 550 555
 Thr Arg Tyr Ala Gln Gly Asn Phe Asp Glu Gly Lys Gly Ile Ser Arg
 565 570 575
 His Leu Leu Gly Gly Val Glu Trp Arg Pro Arg Asp Leu Thr Leu Glu
 580 585 590
 Ala Glu Leu Ser Gly Asn Arg Tyr His Gly Lys Asn Arg Pro Gly Ala
 595 600 605
 Arg Leu Ser Thr Thr Tyr Ser Leu Ser Asp Asn Trp Gln Val Ser Gly
 610 615 620
 Asn Leu Glu Arg Leu Ser Arg Ala Thr Pro Leu Arg Ala Leu Arg Asn
 625 630 635
 Gly Ile Ser Ala Asn Arg Gly Glu Gly Gly Val Arg Trp Tyr Gln Asn
 645 650 655
 Glu Arg Arg Glu Tyr Gln Phe Asn Ala Ala Ile Ser Arg Phe Ser Asp
 660 665 670
 His Asn Arg Arg Gln Glu Tyr Thr Leu Ser Gly Lys Glu Arg Leu Trp
 675 680 685
 Gln Thr Pro Thr Leu Thr Leu Asp Leu Glu Pro Gly Ile Ala Ala Ser
 690 695 700
 Lys Asn Ser Leu Arg Asn Thr Leu Tyr Tyr Asn Pro Ala Arg Asp Leu
 705 710 715
 Ser Val Thr Ala Ala Leu Ser Val Asp His Glu Met Tyr Arg His Tyr
 725 730 735
 Asp Thr Leu Trp Ser Gln Gln Phe Val Ala Gly Gly Gly Ser Tyr Trp
 740 745 750
 Gln Lys Asn Gln Ser Pro Gly Ala Val Thr Leu Leu Gly Tyr Gly Gln
 755 760 765
 Arg Ile Gln Trp Asn Asn Val Val Asp Thr Gly Val Met Leu Asn Trp
 770 775 780
 Asp Lys Arg Pro Tyr Asp Gly Lys Arg Glu Ser Asn Leu Ser Val Thr
 785 790 795 800
 Leu Asp Ala Thr Leu Arg Phe
 805

<210> 7865

<211> 478

<212> PRT

<213> *Enterobacter cloacae*

<400> 7865

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Thr Ala Ser Lys Ile Thr Val Ile Thr Pro Thr Thr Ser Ser Thr Thr
1      5      10      15
Asn Leu Ile Phe Arg Val Ser Gly Leu Asn Phe Leu Arg Thr Gly Ile
20      25      30
Leu Thr Met Thr Asp Arg Ile Ile Ala Phe Ser Ile Leu Cys Leu Val
35      40      45
Phe Gly Leu Pro Leu Gly Val Ala Ala Leu Phe Thr Gly Glu Leu Ile
50      55      60
Leu Asp Phe Val Phe Phe Trp Pro Leu Phe Met Ser Val Leu Trp Val
65      70      75      80
Thr Gly Gly Leu Tyr Phe Trp Phe Gln Leu Glu Arg His Trp Ser Trp
85      90      95
Asp Asn Ala Thr Pro Ala Pro Ala Leu Ala Gly Glu Pro Leu Ile Ser
100     105     110
Ile Leu Ile Pro Cys Phe Asn Glu Glu Arg Asn Ala Arg Glu Thr Ile
115     120     125
Ser Ala Ala Leu Asp Gln Arg Tyr Trp Asn Val Glu Val Ile Ala Ile
130     135     140
Asn Asp Gly Ser Ser Asp Asn Thr Ala Glu Val Leu Gln Gln Leu Ala
145     150     155     160
Arg Glu Gln Pro Arg Leu Arg Val Ile Asn Leu Ala Glu Asn Gln Gly
165     170     175
Lys Ala Val Ala Leu Lys Ala Gly Ala Ala Ala Arg Gly Asp Leu
180     185     190
Leu Val Cys Ile Asp Gly Asp Ala Leu Leu Asp Arg Asp Thr Ala Ala
195     200     205
Tyr Leu Val Ala Pro Leu Ile Gln Tyr Pro His Val Gly Ala Val Thr
210     215     220
Gly Asn Pro Arg Ile Arg Thr Arg Ser Thr Leu Ile Gly Arg Ile Gln
225     230     235     240
Val Gly Glu Phe Ser Ser Ile Ile Gly Leu Ile Lys Arg Thr Gln Arg
245     250     255
Ile Tyr Gly Arg Val Phe Thr Val Ser Gly Val Ile Ala Ala Phe Arg
260     265     270
Arg Gln Ala Leu Ala Asp Val Gly Tyr Trp Ser Pro Asp Met Ile Thr
275     280     285
Glu Asp Ile Asp Ile Ser Trp Lys Leu Gln Leu Arg His Trp Asp Ile
290     295     300
Phe Phe Glu Pro Arg Ala Leu Cys Trp Ile Leu Met Pro Glu Thr Leu
305     310     315     320
Lys Gly Leu Trp Lys Gln Arg Leu Arg Trp Ala Gln Gly Gly Ala Glu
325     330     335
Val Phe Leu Val Asn Leu Arg Lys Met Ala Arg Trp Glu His His Arg
340     345     350
Met Trp Pro Leu Phe Leu Glu Tyr Ala Leu Ser Thr Leu Trp Ala Phe
355     360     365
Ala Tyr Gly Ala Thr Val Val Leu Phe Ile Leu Ser His Ile Ile Pro
370     375     380
Leu Pro Ala Asn Leu Ala Val Ala Ser Leu Phe Pro Pro Ala Phe Thr
385     390     395     400
Gly Leu Leu Leu Gly Val Met Cys Leu Leu Gln Phe Leu Val Ser Leu
405     410     415
Tyr Ile Glu Arg Arg Tyr Glu Arg Lys Val Ala Gly Ser Leu Phe Trp
420     425     430
Val Ile Trp Phe Pro Met Val Tyr Trp Met Ile Gly Leu Phe Thr Thr

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435 440 445
 Leu Val Ala Phe Pro Lys Val Met Leu Lys Arg Lys Arg Ala Arg Ala
 450 455 460
 Arg Trp Ile Ser Pro Asp Arg Gly Lys Gly Ser Ile Gln
 465 470 475

<210> 7866
 <211> 179
 <212> PRT
 <213> Enterobacter cloacae

<400> 7866
 Ala Val Val Phe Gln His Leu Val Gly Gly Met Lys Val His Gln Val
 1 5 10 15
 Gln Phe Val Gly Gly Phe Asp Gln Leu Leu Gly Ala Phe Gly Asn
 20 25 30
 Gly Glu Val Leu Ala Gly Ile Val Val Asp Asn Val Ala Val Gly Ala
 35 40 45
 Asn Val Arg Leu Leu Gln Gly Val Val Phe Ile Glu Pro Phe Ser Val
 50 55 60
 Glu Leu Ala Val Val Leu Gln Pro Arg Ala Ala Asp Phe Gln Gln Phe
 65 70 75 80
 Thr Val Asp Leu Arg Leu Arg Asn Thr Val Phe Arg Leu Leu Arg Leu
 85 90 95
 Asp His Pro Ala Glu Asp Leu Gly Ile Val Glu Arg Val Met Lys Arg
 100 105 110
 Ile Ala Thr Val Leu His Ala Gln Thr Gln Leu Ala Arg Pro Leu Leu
 115 120 125
 Pro His Arg Gln Arg Gly Val Asn Asn Val Leu Leu Gly Asn Ala His
 130 135 140
 Ser Val Ile Gln Gln Leu Gly Asn Asp Gly Asp Val Ala Gly Leu Met
 145 150 155 160
 Lys Leu Thr Ala Leu Leu Pro Asp Glu Gln Arg Thr Gly Leu Arg Arg
 165 170 175
 Ala Phe

<210> 7867
 <211> 327
 <212> PRT
 <213> Enterobacter cloacae

<400> 7867
 Leu Thr Glu Val Ala Leu Ser Tyr Thr Arg Pro Ala His Tyr Ala Arg
 1 5 10 15
 Ile Val Lys Arg Phe Leu His Leu Leu Leu His Cys Leu Asn Thr Thr
 20 25 30
 Pro Lys Arg Gln Ala Asn Met Ser Asp Asn Thr Tyr Gln Pro Pro Lys
 35 40 45
 Val Trp Glu Trp Lys Gln Asn Asn Gly Gly Ala Phe Ala Asn Ile Asn
 50 55 60
 Arg Pro Val Ser Gly Ala Thr His Glu Lys Glu Leu Pro Val Gly Ala
 65 70 75 80
 His Pro Leu Gln Leu Tyr Ser Leu Gly Thr Pro Asn Gly Gln Lys Val
 85 90 95
 Thr Ile Met Leu Glu Glu Leu Leu Ala Leu Gly Val Thr Gly Ala Glu
 100 105 110
 Tyr Asp Ala Trp Leu Ile Arg Ile Gly Glu Gly Asp Gln Phe Ser Ser
 115 120 125
 Gly Phe Val Asp Val Asn Pro Asn Ser Lys Ile Pro Ala Leu Arg Asp
 130 135 140

His Ser Thr Thr Pro Pro Thr Arg Val Phe Glu Ser Gly Asn Ile Leu
 145 150 155 160
 Leu Tyr Leu Ala Glu Lys Phe Gly His Leu Pro Lys Asp Pro Ala
 165 170 175
 Gly Arg Thr Glu Thr Leu Asn Trp Leu Phe Trp Leu Gln Gly Ala Ala
 180 185 190
 Pro Phe Leu Gly Gly Phe Gly His Phe Tyr Asn Tyr Ala Pro Val
 195 200 205
 Lys Ile Glu Tyr Ala Ile Asp Arg Phe Thr Met Glu Ala Lys Arg Leu
 210 215 220
 Phe Asp Val Leu Asp Lys Gln Leu Ala Arg Gly Arg Tyr Val Ala Gly
 225 230 235 240
 Glu Glu Tyr Thr Ile Ala Asp Met Ala Val Trp Pro Trp Phe Gly Cys
 245 250 255
 Val Ala Leu Gly Ser Val Tyr Asn Ala Ala Glu Phe Leu Asp Ala Gly
 260 265 270
 Lys Tyr Thr Asn Val Gln Arg Trp Ala Lys Asp Val Ala Asn Arg Pro
 275 280 285
 Ala Val Lys Arg Gly Arg Ile Val Asn Arg Thr Asn Gly Glu Leu Asn
 290 295 300
 Glu Gln Leu His Glu Arg His Ser Ala Ser Asp Phe Asp Thr Gln Thr
 305 310 315 320
 Glu Asp Lys Arg Gln Gly
 325

<210> 7868

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 7868

Thr Leu Asp Asp Phe Leu Gly Phe Leu Ala Pro Arg Asp Glu Glu Val
 1 5 10 15
 Lys Gly His Lys Ser Met Phe Leu Gly Asn Asp Pro Val Thr Asp Ala
 20 25 30
 Ser Val Ile Pro Ala Leu Asp Gln Leu Thr Gly Gly Lys Lys Asp Thr
 35 40 45
 Thr Val Phe Phe Arg Ala Asp Lys Thr Val Asp Tyr Arg Lys Thr Gln
 50 55 60
 Leu Gly Glu Met Lys Val Met Asp Thr Leu His Gln Ala Gly Tyr Leu
 65 70 75 80
 Lys Ile Gly Leu Val Gly Glu Glu Lys Ala Ala Lys
 85 90

<210> 7869

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7869

Gln Lys Gln Arg Val Ile Gln Arg Gln Arg Leu Ala Ala Leu Arg Gln
 1 5 10 15
 Arg Gly Glu Arg Ala Ser Gly Ile Pro Leu Val Ala Ala Leu Gly His
 20 25 30
 Gly Leu Glu Asn Ala Arg Leu Ala Ala Arg Val Phe Thr Ser Gly
 35 40 45
 Val Phe Thr Thr Arg Ile Leu Thr Ala Arg Ile Phe Thr Ser Gly Val
 50 55 60
 Phe Thr Ala Arg Ile Leu Thr Ala Arg Val Phe Ala Ser Gly Val Phe
 65 70 75 80
 Thr Thr Arg Ile Leu Thr Ala Arg Val Phe Ala Ser Gly Ile Phe Ser

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      85              90              95
Ser Arg Ile Leu Ala Thr Gly Leu Phe Leu Arg Asp Gly Gln Ile Asp
      100              105              110
Gly Ile Gly Ala Leu Leu Lys Arg His Val Glu Glu Gly Gly Phe Gly
      115              120              125
Asp Arg Ala Gly Glu Leu Thr Val Asn Ser Pro Val Gly Gly Gln Asn
      130              135              140
Ala Val Ala Leu Ala Arg Phe Ile Ala Gly Leu Arg Ile Gln Arg Gly
      145              150              155              160
Asp Leu Tyr Leu Ser Leu Ile Ala Asp Gly Gly Phe Ala Arg Tyr Gln
      165              170              175

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<210> 7870

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7870

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Lys Glu Ala Pro Leu Gly Gln Asn Tyr Ala Leu Val Val Asp Asp His
1      5      10      15
Pro Leu Val Ala Ser Gly Ile Ala Asn Phe Leu Ile Thr His Cys Gln
      20      25      30
Phe Lys Gln Ala Cys Val Val Thr Asn Glu Asp Asp Cys Tyr Arg Gln
      35      40      45
Ile Arg Asp His Gly Pro Pro Arg Leu Leu Val Ile Asp Phe Trp Leu
      50      55      60
Ser Ser Gly Thr Ala Leu Lys Leu Leu Lys Glu Val Lys Gln Leu Tyr
      65      70      75      80
Pro Gln Val Arg Leu Leu Val Val Ser Gly Asp Asp Asn Asn Asp Ile
      85      90      95
Trp Arg Lys Val Asn Ala Ala Gly Gly His Gly Phe Val Leu Lys Ser
      100      105      110
Glu Pro Pro Glu Met Phe Ser Arg Ala Val Phe Ala Leu Thr Asp Asn
      115      120      125
Gln Thr Trp Phe Pro Glu Gly Asn Glu Ile Ser Val Lys Ala Asn Asn
      130      135      140
Glu Lys Leu Ser Lys Phe Asn Leu Thr Pro Arg Gln Ile Asp Val Leu
      145      150      155      160
Asn Met Ile Arg Arg Gly Leu Pro Asn Lys Arg Ile Ala Ala Gln Leu
      165      170      175
Ser Ile Ser Glu Pro Thr Val Lys Glu His Ile Ser Asn Ile Leu Lys
      180      185      190
Lys Ile Gly Val Asn Ser Arg Val Glu Ala Ile Thr Leu Leu His Gly
      195      200      205
Lys Gln Glu Pro Ser Glu
      210              215

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<210> 7871

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 7871

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Asp Ile Leu Ser Ala Gly Phe Val Cys Arg Gln Asp Phe Met Glu Arg
1      5      10      15
Phe Phe Glu Asn Ala Met Tyr Ala Ser Arg Trp Leu Leu Ala Pro Val
      20      25      30
Tyr Phe Gly Leu Ser Leu Ala Leu Val Ala Leu Thr Ile Lys Phe Phe
      35      40      45

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Gln Glu Ile Phe His Val Leu Pro Asn Ile Phe Ser Val Ala Glu Ala
 50 55 60
 Asp Leu Ile Leu Val Leu Leu Ser Leu Val Asp Met Thr Leu Val Gly
 65 70 75 80
 Gly Leu Leu Val Met Val Met Phe Ser Gly Tyr Glu Asn Phe Val Ser
 85 90 95
 Gln Leu Asp Ile Ala Glu His Lys Glu Lys Leu Ser Trp Leu Gly Lys
 100 105 110
 Met Asp Ala Ser Ser Leu Lys Asn Lys Val Ala Ala Ser Ile Val Ala
 115 120 125
 Ile Ser Ser Ile His Leu Leu Arg Val Phe Met Asp Ala Lys Asn Val
 130 135 140
 Pro Asp Asn Lys Leu Met Trp Tyr Val Ile Ile His Leu Thr Phe Val
 145 150 155 160
 Leu Ser Ala Phe Val Met Gly Tyr Leu Asp Lys Ile Ser Lys Lys
 165 170 175

<210> 7872

<211> 559

<212> PRT

<213> Enterobacter cloacae

<400> 7872

Ile Phe Glu Thr Thr Phe Ser Phe Tyr Ala Asp Ser Ile Thr Lys Lys
 1 5 10 15
 Val Tyr Phe Leu Gln Tyr Leu Pro Ile Thr Arg Gly Val Leu Ala Ser
 20 25 30
 Gly Arg Ile His Pro His Gly Lys Glu Tyr Ser Met Lys Met Leu Arg
 35 40 45
 Asn Phe Thr Ile Arg Phe Val Met Leu Thr Ile Leu Gly Ile Phe Cys
 50 55 60
 Val Met Trp Ala Gly Val Gly Leu Tyr Ser Thr Trp Ser Leu Ser Arg
 65 70 75 80
 Val Ser Asp Gly Asn Asp Val Asp Arg Leu Leu Val Arg Gln Met Thr
 85 90 95
 Val Leu Ser Gln Gly Asn Asp Gln Tyr Phe Arg Phe Val Thr Arg Leu
 100 105 110
 Ser Arg Ala Met Glu Val Lys Ala Ala Gly Gly Thr Pro Asp Leu Ala
 115 120 125
 Pro Ala Gln Gln Ala Leu Asp Asn Met Ser Lys Lys Leu Ala Glu Met
 130 135 140
 Lys Ala Ile Ser Pro Gly Pro Met Asp Glu Lys Val Ser Ala Gln Val
 145 150 155 160
 Ile Ser Thr Trp Gln Ala Leu Leu Asp Gln Gly Val Thr Pro Gln Met
 165 170 175
 Ala Gln Ala Lys Gln Ala Thr Leu Glu Gly Tyr Arg Gln His Ala Asn
 180 185 190
 Asn Val Thr Pro Pro Leu Ser Arg Ala Phe Gly Ser Ala Ala Glu Asn
 195 200 205
 Phe Asn Asn Thr Ala Ala Lys Ala Leu Asp Ser Thr Arg Val Val Val
 210 215 220
 Asp Gly Leu Thr Ser Met Thr Arg Thr Val Ile Ile Thr Ala Thr Ile
 225 230 235 240
 Val Gly Leu Leu Ile Leu Leu Phe Thr Asp Arg Tyr Leu Val Ala Ile
 245 250 255
 Leu Val Lys Pro Leu Asp Arg Ile Arg Gln Phe Arg Gln Ile Ala
 260 265 270
 Gln Gly Asp Leu Ser Gln Pro Ile Glu Ser Leu Gly Arg Asn Cys Val
 275 280 285
 Gly Gln Leu Val Pro Leu Leu Ser Ala Met Gln Asp Ser Leu Arg Glu
 290 295 300

Ala Val Ser Thr Ile Arg Ser Gly Ser Glu Asn Ile Trp Arg Gly Ala
 305 310 315 320
 Thr Glu Ile Ser Ser Gly Asn Asn Asp Leu Ser Ser Arg Thr Glu Glu
 325 330 335
 Gln Ala Ala Ala Leu Glu Glu Thr Ala Ala Ser Met Glu Gln Leu Thr
 340 345 350
 Ala Thr Val Lys Leu Asn Ala Glu Ser Ala Arg Gln Ala Ser Gln Leu
 355 360 365
 Ala Asp Val Ala Ser Ser Thr Ala Ser Arg Gly Gly Ser Leu Val Glu
 370 375 380
 Asp Val Val Thr Thr Met Ser Gly Ile Ser Asp Ser Ser Lys Lys Ile
 385 390 395 400
 Ala Glu Ile Thr Thr Val Ile Asn Ser Ile Ala Phe Gln Thr Asn Ile
 405 410 415
 Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg Ala Gly Glu Gln Gly
 420 425 430
 Arg Gly Phe Ala Val Val Ala Gly Glu Val Arg Asn Leu Ala Ser Arg
 435 440 445
 Ser Ala Asn Ala Ala Lys Glu Ile Glu Gly Leu Ile Ala Asp Ser Val
 450 455 460
 Ala Arg Val Glu Gln Gly Ala Gln Leu Val Asn Asp Thr Gly Thr Thr
 465 470 475 480
 Met Glu Ala Ile Leu Arg Asp Val Thr Glu Val Thr Val Ile Met Lys
 485 490 495
 Gln Ile Ala Thr Ala Ser Glu Glu Gln Ser Lys Gly Ile Ser Gln Val
 500 505 510
 Gly Val Ala Ile Thr Gln Met Asp Gly Val Thr Gln Gln Asn Ala Ser
 515 520 525
 Leu Val Glu Gln Val Ser Ala Ala Ala Ala Leu Glu Arg Gln Thr
 530 535 540
 Glu Glu Leu Gln Arg Ser Val Gln Lys Phe Arg Leu Thr Ala
 545 550 555

<210> 7873

<211> 624

<212> PRT

<213> Enterobacter cloacae

<400> 7873

Val Gly His Met Arg Lys Gly Thr Leu Ser Ser Asp Ala Pro Phe Gly
 1 5 10 15
 Thr Leu Leu Gly Tyr Ala Pro Gly Gly Val Ala Ile Tyr Ser Ser Asn
 20 25 30
 Tyr Gly Ser Leu Asp Pro Arg Arg Tyr Pro Glu Asp Ala Glu Phe Arg
 35 40 45
 Ser Tyr Ile Gly Asn Glu Tyr Met Gly His Lys Trp Gln Cys Val Glu
 50 55 60
 Phe Ala Arg Arg Phe Leu Phe Leu Asn His Gly Phe Val Phe Thr Asp
 65 70 75 80
 Val Gly Met Ala Trp Glu Ile Phe Ser Leu Arg Phe Leu Arg Gln Val
 85 90 95
 Val Asn Asp Asn Ile Leu Pro Leu Gln Ala Phe Ala Asn Gly Ser Lys
 100 105 110
 Arg Ala Pro Gln Ala Gly Ala Leu Leu Ile Trp Gln Lys Gly Gly Glu
 115 120 125
 Phe His Glu Thr Gly His Val Ala Val Ile Thr Gln Leu Leu Asp Asp
 130 135 140
 Arg Val Arg Ile Ala Glu Gln Asn Val Ile His Ser Pro Leu Pro Met
 145 150 155 160
 Gly Gln Gln Trp Thr Arg Glu Leu Arg Leu Ser Val Glu Asp Gly Cys
 165 170 175

Tyr Thr Leu His Asp Thr Phe Asn Asp Thr Glu Ile Leu Gly Trp Met
 180 185 190
 Ile Gln Thr Glu Glu Thr Glu His Ser Ile Pro Gln Pro Glu Ile Asp
 195 200 205
 Gly Glu Leu Leu Lys Ile Ser Gly Ala Arg Leu Lys Asn Asn Arg Gln
 210 215 220
 Phe Asp Gly Lys Trp Leu Asn Glu Asn Asp Ala Leu Gln Gln Ala Tyr
 225 230 235 240
 Val Arg Ala Asn Gly His Val Ile Asn Asn Asp Pro Cys Gln Tyr Phe
 245 250 255
 Thr Ile Thr Glu Ser Ala Glu Gln Glu Leu Ile Lys Ala Thr Asn Glu
 260 265 270
 Leu His Leu Met Tyr Leu His Ala Thr Asp Lys Val Leu Lys Asp Asp
 275 280 285
 Ser Leu Leu Ala Leu Phe Asp Ile Pro Lys Ile Leu Trp Pro Arg Leu
 290 295 300
 Arg Leu Ser Trp Gln Trp Arg Arg His His Met Ile Thr Gly Arg Met
 305 310 315 320
 Asp Phe Cys Met Asp Glu Arg Gly Ile Lys Val Tyr Glu Tyr Asn Ala
 325 330 335
 Asp Ser Ala Ser Cys His Thr Glu Gly Gly Leu Ile Leu Glu Glu Trp
 340 345 350
 Val Lys Asn Gly Tyr Arg Gly Thr Gly His Asn Pro Ala Glu Gly Leu
 355 360 365
 Leu Glu Glu Leu Thr Gly Ala Trp Lys His Ser His Ala Arg Pro Phe
 370 375 380
 Val His Ile Met Gln Asp Asn Asp Ile Glu Glu Asp Tyr His Val Leu
 385 390 395 400
 Phe Ile Gln Arg Ser Leu Ile Gln Ala Gly Phe Glu Thr Lys Ile Leu
 405 410 415
 His Gly Leu Gly Ala Leu Ser Trp Asp Ala Ala Gly Gln Leu Ile Asp
 420 425 430
 Asp Glu Gly Arg His Val Asn Cys Val Trp Lys Thr Trp Ala Trp Glu
 435 440 445
 Thr Ala Ile Glu Gln Ile Arg Glu Val Ser Glu Thr Glu Tyr Ala Ala
 450 455 460
 Val Pro Ile Arg Thr Gly His Pro Gln Gly Glu Val Arg Leu Ile Asp
 465 470 475 480
 Val Leu Leu Arg Pro Glu Val Leu Val Phe Glu Pro Leu Trp Thr Val
 485 490 495
 Ile Pro Gly Asn Lys Ala Ile Leu Pro Val Leu Trp Gln Leu Phe Pro
 500 505 510
 Asn His Arg Tyr Leu Leu Asp Thr Asp Phe Glu Val Asn Asp Leu Leu
 515 520 525
 Lys Arg Thr Gly Tyr Ala Val Lys Pro Ile Ala Gly Arg Cys Gly Ser
 530 535 540
 Asn Ile Asp Leu Ile Gly Ala Gln Asp Glu Leu Leu Asp Gln Ser Ser
 545 550 555 560
 Gly Lys Phe Val Asp Arg Lys Asn Ile Tyr Gln Gln Leu Trp Cys Leu
 565 570 575
 Pro Lys Val Asp Gly Arg Tyr Ile Gln Val Cys Thr Phe Thr Val Gly
 580 585 590
 Gly Asn Tyr Gly Gly Thr Cys Leu Arg Gly Asp Asn Ser Leu Val Val
 595 600 605
 Lys Lys Glu Ser Asp Ile Glu Pro Leu Ile Val Val Lys Asp Asn
 610 615 620

<210> 7874

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 7874

Thr Val Arg Asn Ala Val Gln Val Phe Ser Gly Glu Gln Ala Leu Cys
 1 5 10 15
 Gln Arg Gly Lys Gly Asp Thr Ala Arg Ser Val Phe Leu Gln Arg Val
 20 25 30
 Gln Gln Ala Gly Leu Val Asp Pro Ala Val Lys Gln Val Val Arg Arg
 35 40 45
 Leu Val Asp Gln Lys Arg Asp Leu Pro Leu Ala Gln Gln Phe Gly His
 50 55 60
 Arg Arg Arg Ala Phe Arg Gly Val Arg Arg Asn Ala Asp Ile Gln Arg
 65 70 75 80
 Phe Ser Ala Leu His Arg Val Cys Gln Arg Ser Gly Gly Leu Phe His
 85 90 95
 Arg Arg Val Phe Val Tyr Ala Val Arg Ile Glu Asn Ile His Ile Leu
 100 105 110
 His Thr His Ala Val Gln Ala Leu Val Glu Ala Gly Glu Gln Val Leu
 115 120 125
 Thr
 130

<210> 7875

<211> 354

<212> PRT

<213> *Enterobacter cloacae*

<400> 7875

Met Leu Tyr Thr His Ser Ser His Gln Asn Arg Gly Asn Ala Met Ser
 1 5 10 15
 Lys Ile Lys Ser Tyr Ala Ala Pro Gln Ala Gly Ala Glu Leu Glu Leu
 20 25 30
 Tyr Glu Tyr Asp Ala Gly Glu Leu Lys Ala Glu Asp Val Glu Val Gln
 35 40 45
 Val Asp Tyr Cys Gly Ile Cys His Ser Asp Leu Ser Met Ile Asp Asn
 50 55 60
 Glu Trp Gly Phe Ser Ser Tyr Pro Leu Val Ala Gly His Glu Val Ile
 65 70 75 80
 Gly Arg Val Val Ala Leu Gly Ser Ala Ala Gln Asp Lys Gly Leu Lys
 85 90 95
 Val Gly Gln Arg Val Gly Ile Gly Trp Thr Ala Arg Ser Cys Gly His
 100 105 110
 Cys Asp Ala Cys Ile Ser Gly Asn Gln Ile Asn Cys Leu Glu Gly Ala
 115 120 125
 Thr Pro Thr Ile Leu Asn Lys Gly Gly Phe Ala Asp Lys Leu Arg Ala
 130 135 140
 Asp Trp Gln Trp Val Ile Pro Leu Pro Asp Ser Ile Asp Ile Glu Ser
 145 150 155 160
 Ala Gly Pro Leu Leu Cys Gly Gly Ile Thr Val Phe Lys Pro Leu Leu
 165 170 175
 Met His His Ile Thr Ala Thr Ser Arg Val Gly Val Ile Gly Ile Gly
 180 185 190
 Gly Leu Gly His Ile Ala Ile Lys Leu Leu His Ala Met Gly Cys Glu
 195 200 205
 Val Thr Ala Phe Ser Ser Asn Pro Ala Lys Glu Gln Glu Val Leu Ala
 210 215 220
 Met Gly Ala Asp Lys Val Val Asn Ser Arg Asp Pro Gln Ala Leu Thr
 225 230 235 240
 Ala Leu Ala Gly Gln Phe Asp Leu Ile Ile Asn Thr Val Asn Val Asp
 245 250 255
 Leu Asp Trp Gln Pro Tyr Phe Glu Ala Leu Ala Tyr Gly Gly Asn Phe
 260 265 270

His Thr Val Gly Ala Val Met Lys Pro Leu Pro Val Pro Ala Phe Thr
 275 280 285
 Leu Ile Gly Gly Asp Arg Ser Val Ser Gly Ser Ala Thr Gly Thr Pro
 290 295 300
 Tyr Glu Leu Arg Lys Leu Met Lys Phe Ala Gly Arg Thr Lys Val Ala
 305 310 315 320
 Pro Thr Thr Glu Leu Tyr Pro Met Ser Lys Ile Asn Glu Ala Ile Gln
 325 330 335
 His Val Arg Asp Gly Lys Ala Arg Tyr Arg Val Val Leu Lys Ala Asp
 340 345 350
 Phe

<210> 7876

<211> 960

<212> PRT

<213> Enterobacter cloacae

<400> 7876

Pro Glu Tyr Gly Asn Leu Glu Ile Met Glu Lys Thr Tyr Asn Pro Arg
 1 5 10 15
 Asp Ile Glu Gln Pro Leu Tyr Glu His Trp Glu Gln Gln Gly Tyr Phe
 20 25 30
 Lys Pro Asn Gly Asp Glu Ser Lys Glu Ser Phe Cys Ile Met Ile Pro
 35 40 45
 Pro Pro Asn Val Thr Gly Ser Leu His Met Gly His Ala Phe Gln Gln
 50 55 60
 Thr Ile Met Asp Thr Met Ile Arg Tyr Gln Arg Met Gln Gly Lys Asn
 65 70 75 80
 Thr Leu Trp Gln Ala Gly Thr Asp His Ala Gly Ile Ala Thr Gln Met
 85 90 95
 Val Val Glu Arg Lys Ile Ala Ala Glu Glu Gly Lys Thr Arg His Asp
 100 105 110
 Tyr Gly Arg Asp Ala Phe Ile Asp Lys Ile Trp Gln Trp Lys Ala Glu
 115 120 125
 Ser Gly Gly Thr Ile Thr Arg Gln Met Arg Arg Leu Gly Asn Ser Val
 130 135 140
 Asp Trp Glu Arg Glu Arg Phe Thr Met Asp Glu Gly Leu Ser Asn Ala
 145 150 155 160
 Val Lys Glu Val Phe Val Arg Leu Tyr Lys Glu Asp Leu Ile Tyr Arg
 165 170 175
 Gly Lys Arg Leu Val Asn Trp Asp Pro Lys Leu Arg Thr Ala Ile Ser
 180 185 190
 Asp Leu Glu Val Glu Asn Arg Glu Ser Lys Gly Ser Met Trp His Ile
 195 200 205
 Arg Tyr Pro Leu Ala Asp Gly Ala Lys Thr Ala Asp Gly Lys Asp Tyr
 210 215 220
 Leu Val Val Ala Thr Thr Arg Pro Glu Thr Leu Leu Gly Asp Thr Gly
 225 230 235 240
 Val Ala Val Asn Pro Glu Asp Pro Arg Tyr Lys Asp Leu Ile Gly Lys
 245 250 255
 Phe Val Val Leu Pro Leu Val Asn Arg Arg Ile Pro Ile Val Gly Asp
 260 265 270
 Glu His Ala Asp Met Glu Lys Gly Thr Gly Cys Val Lys Ile Thr Pro
 275 280 285
 Ala His Asp Phe Asn Asp Tyr Glu Val Gly Arg Arg His Gln Leu Pro
 290 295 300
 Met Ile Asn Ile Leu Thr Phe Asp Gly Asp Ile Arg Glu Ser Ala Glu
 305 310 315 320
 Val Tyr Asp Thr Lys Gly Asn Glu Ser Asp Val Tyr Ser Ser Asp Ile
 325 330 335

Pro Ala Glu Phe Gln Lys Leu Glu Arg Phe Ala Ala Arg Lys Ala Ile
 340 345 350
 Val Ala Ala Val Asp Ala Leu Gly Leu Leu Glu Glu Ile Lys Pro His
 355 360 365
 Asp Leu Thr Val Pro Tyr Gly Asp Arg Gly Gly Val Val Ile Glu Pro
 370 375 380
 Met Leu Thr Asp Gln Trp Tyr Val Arg Ala Asp Val Leu Ala Lys Pro
 385 390 395 400
 Ala Val Glu Ala Val Glu Asn Gly Ser Ile Gln Phe Val Pro Lys Gln
 405 410 415
 Tyr Glu Asn Met Tyr Phe Ser Trp Met Arg Asp Ile Gln Asp Trp Cys
 420 425 430
 Ile Ser Arg Gln Leu Trp Trp Gly His Arg Ile Pro Ala Trp Tyr Asp
 435 440 445
 Asn Glu Gly Asn Val Tyr Val Gly Arg Thr Glu Glu Glu Val Arg Gln
 450 455 460
 Glu Asn Asn Leu Gly Ala Asp Val Ala Leu Arg Gln Asp Glu Asp Val
 465 470 475 480
 Leu Asp Thr Trp Phe Ser Ser Ala Leu Trp Thr Phe Ser Thr Leu Gly
 485 490 495
 Trp Pro Glu Asn Thr Asp Ala Leu Arg Gln Phe His Pro Thr Ser Val
 500 505 510
 Met Val Ser Gly Phe Asp Ile Ile Phe Phe Trp Ile Ala Arg Met Ile
 515 520 525
 Met Met Thr Met His Phe Ile Lys Asp Glu Asp Gly Lys Pro Gln Val
 530 535 540
 Pro Phe His Thr Val Tyr Met Thr Gly Leu Ile Arg Asp Asp Glu Gly
 545 550 555 560
 Gln Lys Met Ser Lys Ser Lys Gly Asn Val Ile Asp Pro Leu Asp Met
 565 570 575
 Val Asp Gly Ile Ser Leu Glu Glu Leu Leu Glu Lys Arg Thr Gly Asn
 580 585 590
 Met Met Gln Pro Gln Leu Ala Glu Lys Ile Arg Lys Arg Thr Glu Lys
 595 600 605
 Gln Phe Pro Asn Gly Ile Glu Ser His Gly Thr Asp Ala Leu Arg Phe
 610 615 620
 Thr Leu Ala Ala Leu Ala Ser Thr Gly Arg Asp Ile Asn Trp Asp Met
 625 630 635 640
 Lys Arg Leu Glu Gly Tyr Arg Asn Phe Cys Asn Lys Leu Trp Asn Ala
 645 650 655
 Ser Arg Phe Val Leu Met Asn Thr Glu Asp Gln Asp Cys Gly Phe Asn
 660 665 670
 Gly Gly Glu Met Thr Leu Ser Leu Ala Asp Arg Trp Ile Leu Ala Glu
 675 680 685
 Phe Asn Gln Thr Val Lys Ala Phe Arg Asp Ala Leu Asp Ser Tyr Arg
 690 695 700
 Phe Asp Ile Ala Ala Gly Ile Leu Tyr Glu Phe Thr Trp Asn Gln Phe
 705 710 715 720
 Cys Asp Trp Tyr Leu Glu Leu Ala Lys Pro Val Met Asn Gly Gly Ser
 725 730 735
 Glu Ala Glu Leu Arg Gly Thr Arg Asn Thr Leu Ile Thr Val Leu Glu
 740 745 750
 Gly Leu Leu Arg Leu Ala His Pro Ile Ile Pro Phe Ile Thr Glu Thr
 755 760 765
 Ile Trp Gln Arg Val Lys Val Ile Ala Gly Ile Asn Pro Asp Thr Ile
 770 775 780
 Met Leu Gln Pro Phe Pro Ala Phe Asp Ala Ala Lys Val Asp Glu Ala
 785 790 795 800
 Ala Ser Ala Asp Thr Glu Trp Leu Lys Gln Ala Ile Val Ala Ile Arg
 805 810 815
 Asn Ile Arg Ala Glu Met Asn Ile Ala Pro Gly Lys Pro Leu Glu Leu

Arg Arg Gly Val Pro Leu Thr Arg Ala Leu His Leu Asn Pro Arg
 35 40 45
 Gln Glu Thr Pro Tyr Met Lys Asn Ala Thr Phe Tyr Leu Leu Asp Asn
 50 55 60
 Asp Thr His Gln Asp Gly Leu Ser Ala Val Glu Gln Leu Val Cys Glu
 65 70 75 80
 Ile Ala Ala Glu Arg Trp Arg Ala Gly Lys Arg Val Leu Ile Ala Cys
 85 90 95
 Glu Asp Glu Gln Gln Ala Ile Arg Leu Asp Glu Ala Leu Trp Ala Arg
 100 105 110
 Pro Pro Glu Ser Phe Val Pro His Asn Leu Ser Gly Glu Gly Pro Arg
 115 120 125
 Gly Gly Ala Pro Val Glu Ile Ala Trp Pro Gln Lys Arg Asn Ser Ser
 130 135 140
 Ala Arg Asp Ile Leu Ile Ser Leu Arg Thr Asp Phe Ala Asp Phe Ala
 145 150 155 160
 Thr Ala Phe Thr Glu Val Val Asp Phe Val Pro Tyr Glu Glu Ser Leu
 165 170 175
 Lys Gln Leu Ala Arg Glu Arg Tyr Lys Ala Tyr Arg Leu Ala Gly Phe
 180 185 190
 Asn Leu Asn Thr Ala Thr Trp Lys
 195 200

<210> 7879

<211> 524

<212> PRT

<213> Enterobacter cloacae

<400> 7879

Gly Ile Tyr Ala Asp Ile Leu Pro Ser Gly Cys Leu Tyr Ser Thr Gln
 1 5 10 15
 Asp Tyr Glu Arg Thr Cys Ile Met Ser Thr Pro Leu Leu Ile Ala Arg
 20 25 30
 Thr Leu Glu Lys Glu Leu Phe Leu Leu Pro Ala Met Ala Asn Arg His
 35 40 45
 Gly Leu Ile Thr Gly Ala Thr Gly Thr Gly Lys Thr Val Thr Leu Gln
 50 55 60
 Lys Leu Ala Glu Ser Leu Ser Glu Thr Gly Val Pro Val Phe Met Ala
 65 70 75 80
 Asp Val Lys Gly Asp Leu Thr Gly Val Ala Gln Glu Gly Ala Ala Ser
 85 90 95
 Glu Lys Leu Leu Glu Arg Leu Lys Asn Ile Gly Ile Thr Asp Trp Thr
 100 105 110
 Pro His Gly Asn Pro Val Val Val Trp Asp Ile Phe Gly Glu Lys Gly
 115 120 125
 His Pro Val Arg Ala Thr Val Ser Asp Leu Gly Pro Leu Leu Leu Ala
 130 135 140
 Arg Leu Leu Asn Leu Asn Asp Val Gln Ser Gly Val Leu Asn Ile Ile
 145 150 155 160
 Phe Arg Ile Ala Asp Asp Gln Gly Leu Leu Leu Asp Phe Lys Asp
 165 170 175
 Leu Arg Ala Ile Thr Gln Tyr Ile Gly Asp Asn Ala Lys Ser Phe Gln
 180 185 190
 Asn Gln Tyr Gly Asn Ile Ser Ser Ala Ser Val Gly Ala Ile Gln Arg
 195 200 205
 Gly Leu Leu Thr Leu Glu Gln Gln Gly Ala Glu His Phe Phe Gly Glu
 210 215 220
 Pro Met Leu Asp Ile Lys Asp Trp Met Arg Thr Asp Ser Ser Gly Lys
 225 230 235 240
 Gly Ile Ile Asn Ile Leu Ser Ala Glu Lys Leu Tyr Gln Met Pro Lys
 245 250 255

Leu Tyr Ala Ala Ser Leu Leu Trp Met Leu Ser Glu Leu Tyr Glu Gln
 260 265 270
 Leu Pro Glu Ala Gly Asp Leu Glu Lys Pro Lys Leu Val Phe Phe Phe
 275 280 285
 Asp Glu Ala His Leu Leu Phe Asn Asp Ala Pro Gln Val Leu Leu Asp
 290 295 300
 Lys Ile Glu Gln Val Ile Arg Leu Ile Arg Ser Lys Gly Val Gly Val
 305 310 315 320
 Trp Phe Val Ser Gln Asn Pro Ser Asp Ile Pro Asp Asn Val Leu Gly
 325 330 335
 Gln Leu Gly Asn Arg Val Gln His Ala Leu Arg Ala Phe Thr Pro Lys
 340 345 350
 Asp Gln Lys Ala Val Lys Ala Ala Gln Thr Met Arg Val Asn Pro
 355 360 365
 Ala Phe Asp Thr Glu Thr Ala Ile Gln Ala Leu Gly Thr Gly Glu Ala
 370 375 380
 Leu Ile Ser Phe Leu Asp Ala Lys Gly Ser Pro Thr Val Val Glu Arg
 385 390 395 400
 Ala Met Val Ile Ala Pro Cys Ser Arg Met Gly Pro Val Thr Asp Asp
 405 410 415
 Glu Arg Asn Gly Leu Ile Asn His Ser Pro Val Tyr Gly Lys Tyr Glu
 420 425 430
 Asp Glu Val Asp Arg Glu Ser Ala Phe Glu Met Leu Gln Lys Gly Val
 435 440 445
 Gln Ala Thr Ala Glu Ser Gln Asp Ala Pro Ala Ala Lys Gly Gln Ser
 450 455 460
 Val Ala Val Asp Asp Gly Ile Leu Gly Gly Leu Lys Asp Ile Leu Phe
 465 470 475 480
 Gly Ser Thr Gly Pro Arg Gly Gly Lys Arg Asp Gly Val Val Gln Thr
 485 490 495
 Met Ala Lys Ser Ala Thr Arg Gln Ile Thr Asn Gln Ile Val Arg Gly
 500 505 510
 Met Leu Gly Ser Leu Leu Gly Gly Arg Arg Arg
 515 520

<210> 7880

<211> 1501

<212> PRT

<213> Enterobacter cloacae

<400> 7880

Ser Ser Val Gly Ser Pro Thr Ser Leu Gly Arg Phe Thr Asp Met Leu
 1 5 10 15
 Tyr Asp Lys Ser Leu Glu Lys Asp Asn Cys Gly Phe Gly Leu Ile Ala
 20 25 30
 His Ile Glu Gly Glu Pro Ser His Lys Val Val Arg Thr Ala Ile His
 35 40 45
 Ala Leu Ala Arg Met Gln His Arg Gly Ala Ile Leu Ala Asp Gly Lys
 50 55 60
 Thr Gly Asp Gly Cys Gly Leu Leu Leu Gln Lys Pro Asp Arg Phe Phe
 65 70 75 80
 Arg Ile Val Ala Glu Glu Arg Gly Trp Arg Leu Ala Lys Asn Tyr Ala
 85 90 95
 Val Gly Met Leu Phe Leu Asn Gln Asp Pro Glu Lys Ala Ala Ala Ser
 100 105 110
 Arg Arg Ile Val Glu Glu Glu Leu Gln Arg Glu Thr Leu Ser Ile Val
 115 120 125
 Gly Trp Arg Asp Val Pro Thr Asn Glu Gly Val Leu Gly Glu Ile Ala
 130 135 140
 Leu Ser Ser Leu Pro Arg Ile Glu Gln Ile Phe Val Asn Ala Pro Ala
 145 150 155 160

Gly Trp Arg Pro Arg Asp Met Glu Arg Arg Leu Phe Ile Ala Arg Arg
 165 170 175
 Arg Ile Glu Lys Arg Leu Gln Asp Asp Lys Glu Phe Tyr Val Cys Ser
 180 185 190
 Leu Ser Asn Leu Val Asn Ile Tyr Lys Gly Leu Cys Met Pro Ala Asp
 195 200 205
 Leu Pro Arg Phe Tyr Leu Asp Leu Ala Asp Leu Arg Leu Glu Ser Ala
 210 215 220
 Ile Cys Leu Phe His Gln Arg Phe Ser Thr Asn Thr Val Pro Arg Trp
 225 230 235 240
 Pro Leu Ala Gln Pro Phe Arg Tyr Leu Ala His Asn Gly Glu Ile Asn
 245 250 255
 Thr Ile Thr Gly Asn Arg Gln Trp Ala Arg Ala Arg Thr Tyr Lys Phe
 260 265 270
 Gln Thr Pro Leu Ile Pro Asp Leu His Asp Ala Ala Pro Phe Val Asn
 275 280 285
 Glu Thr Gly Ser Asp Ser Ser Ser Met Asp Asn Met Leu Glu Leu Leu
 290 295 300
 Leu Ala Gly Gly Met Asp Ile Val Arg Ala Met Arg Leu Leu Val Pro
 305 310 315 320
 Pro Ala Trp Gln Asn Asn Pro Asp Met Asp Pro Glu Leu Arg Ala Phe
 325 330 335
 Phe Asp Phe Asn Ser Met His Met Glu Pro Trp Asp Gly Pro Ala Gly
 340 345 350
 Ile Val Met Ser Asp Gly Arg Phe Ala Ala Cys Asn Leu Asp Arg Asn
 355 360 365
 Gly Leu Arg Pro Ala Arg Tyr Val Ile Thr Lys Asp Lys Leu Ile Thr
 370 375 380
 Cys Ala Ser Glu Val Gly Ile Trp Asp Tyr Gln Pro Asp Glu Val Val
 385 390 395 400
 Glu Lys Gly Arg Val Gly Pro Gly Glu Leu Met Val Ile Asp Thr Arg
 405 410 415
 Gly Gly Arg Ile Leu His Ser Ala Glu Thr Asp Asn Asp Leu Lys Ser
 420 425 430
 Arg His Pro Tyr Lys Glu Trp Met Glu Lys Asn Val Arg Arg Leu Val
 435 440 445
 Pro Phe Glu Asp Leu Ser Asp Glu Glu Val Gly Ser Arg Glu Leu Asp
 450 455 460
 Asp Asp Thr Leu Ala Ser Phe Gln Lys Gln Phe Asn Tyr Ser Ala Glu
 465 470 475 480
 Glu Leu Asp Ser Val Ile Arg Val Leu Gly Glu Asn Gly Gln Glu Ala
 485 490 495
 Val Gly Ser Met Gly Asp Asp Thr Pro Phe Ala Val Leu Ser Ser Gln
 500 505 510
 Pro Arg Ile Ile Tyr Asp Tyr Phe Arg Gln Gln Phe Ala Gln Val Thr
 515 520 525
 Asn Pro Pro Ile Asp Pro Leu Arg Glu Ala His Val Met Ser Leu Ala
 530 535 540
 Thr Ser Ile Gly Arg Glu Met Asn Val Phe Cys Glu Ala Glu Gly Gln
 545 550 555 560
 Ala His Arg Leu Thr Phe Lys Ser Pro Ile Leu Leu Tyr Ser Asp Phe
 565 570 575
 Lys Gln Leu Thr Thr Met Thr Glu Glu His Tyr Arg Ala Asp Thr Leu
 580 585 590
 Asp Ile Thr Phe Asp Val Thr Glu Thr Ser Leu Glu Glu Thr Val Asn
 595 600 605
 Ala Leu Cys Asp Lys Ala Glu Gln Met Val Arg Asn Gly Thr Val Leu
 610 615 620
 Leu Val Leu Ser Asp Arg Asn Ile Ala Lys Asn Arg Leu Pro Val Pro
 625 630 635 640
 Ala Pro Met Ala Val Gly Ala Ile Gln Thr Arg Leu Val Asp Lys Ser

Leu	Arg	Cys	Asp	Ala	Asn	Ile	Ile	Val	Glu	Thr	Ala	Ser	Ala	Arg	Asp
Pro	His	His	Phe	Ala	Val	Leu	Leu	Gly	Phe	Gly	Ala	Thr	Ala	Ile	Tyr
Pro	Tyr	Leu	Ala	Tyr	Glu	Thr	Leu	Ala	Arg	Leu	Val	Asp	Thr	Arg	Ala
Ile	Asp	Lys	Asp	Tyr	Arg	Ala	Val	Met	Leu	Asn	Tyr	Arg	Asn	Gly	Ile
Asn	Lys	Gly	Leu	Tyr	Lys	Ile	Met	Ser	Lys	Met	Gly	Ile	Ser	Thr	Ile
Ala	Ser	Tyr	Arg	Cys	Ser	Lys	Leu	Phe	Glu	Ala	Val	Gly	Leu	His	Asn
Glu	Val	Ala	Asn	Leu	Cys	Phe	Gln	Gly	Val	Val	Ser	Arg	Ile	Gly	Gly
Ala	Gly	Phe	Ala	Asp	Phe	Gln	Gln	Asp	Leu	Val	Asn	Leu	Ser	Lys	Arg
Ala	Trp	Leu	Ala	Arg	Lys	Pro	Leu	Glu	Gln	Gly	Gly	Leu	Leu	Lys	Tyr
Val	His	Gly	Gly	Glu	Tyr	His	Ala	Tyr	Asn	Pro	Asp	Val	Val	Arg	Thr
Leu	Gln	Gln	Ala	Val	Gln	Ser	Gly	Glu	Tyr	Ser	Asp	Tyr	Gln	Gln	Tyr
Ala	Glu	Leu	Val	Asn	Asn	Arg	Pro	Ala	Ala	Thr	Leu	Arg	Asp	Leu	Ile
Ala	Leu	Asn	Pro	Gly	Glu	Glu	Ala	Val	Ser	Ile	Asp	Glu	Val	Glu	Pro
Ala	Ser	Glu	Leu	Phe	Lys	Arg	Phe	Asp	Thr	Ala	Ala	Met	Ser	Ile	Gly
Ala	Leu	Ser	Pro	Glu	Ala	His	Glu	Ala	Leu	Ala	Glu	Ala	Met	Asn	Ser
Ile	Gly	Gly	Asn	Ser	Asn	Ser	Gly	Glu	Gly	Gly	Glu	Asp	Pro	Ala	Arg
Tyr	Gly	Thr	Asn	Lys	Val	Ser	Arg	Ile	Lys	Gln	Val	Ala	Ser	Gly	Arg
Phe	Gly	Val	Thr	Pro	Ala	Tyr	Leu	Val	Asn	Ala	Asp	Val	Ile	Gln	Ile
Lys	Val	Ala	Gln	Gly	Ala	Lys	Pro	Gly	Glu	Gly	Gly	Gln	Leu	Pro	Gly
Asp	Lys	Val	Thr	Pro	Tyr	Ile	Ala	Lys	Leu	Arg	Tyr	Ser	Val	Pro	Gly
Val	Thr	Leu	Ile	Ser	Pro	Pro	Pro	His	His	Asp	Ile	Tyr	Ser	Ile	Glu
Asp	Leu	Ala	Gln	Leu	Ile	Phe	Asp	Leu	Lys	Gln	Val	Asn	Pro	Lys	Ala
Met	Ile	Ser	Val	Lys	Leu	Val	Ser	Glu	Pro	Gly	Val	Gly	Thr	Ile	Ala
Thr	Gly	Val	Ala	Lys	Ala	Tyr	Ala	Asp	Leu	Ile	Thr	Ile	Ala	Gly	Tyr
Asp	Gly	Gly	Thr	Gly	Ala	Ser	Pro	Leu	Ser	Ser	Val	Lys	Tyr	Ala	Gly
Cys	Pro	Trp	Glu	Leu	Gly	Leu	Val	Glu	Thr	Gln	Gln	Ala	Leu	Val	Ala
Asn	Gly	Leu	Arg	His	Lys	Ile	Arg	Leu	Gln	Val	Asp	Gly	Gly	Leu	Lys
Thr	Gly	Leu	Asp	Ile	Ile	Lys	Ala	Ala	Ile	Leu	Gly	Ala	Glu	Ser	Phe
Gly	Phe	Gly	Thr	Gly	Pro	Met	Val	Ala	Leu	Gly	Cys	Lys	Tyr	Leu	Arg
Ile	Cys	His	Leu	Asn	Asn	Cys	Ala	Thr	Gly	Val	Ala	Thr	Gln	Asp	Glu

Lys Leu Arg Lys Asn His Tyr His Gly Leu Pro Phe Lys Val Thr Asn
 1140 1145 1150
 Tyr Phe Asp Phe Ile Ala Arg Glu Thr Arg Glu Leu Met Ala Gln Leu
 1155 1160 1165
 Gly Val Lys Arg Leu Val Asp Leu Ile Gly Arg Thr Asn Leu Leu Lys
 1170 1175 1180
 Glu Leu Glu Gly Phe Thr Ala Lys Gln Gln Lys Leu Glu Leu Ser Lys
 1185 1190 1195 1200
 Leu Leu Glu Thr Ala Gln Pro His Pro Gly Lys Ala Val Tyr Cys Thr
 1205 1210 1215
 Glu Asn Asn Pro Pro Phe Asp Asn Gly Val Leu Asn Ala Gln Leu Leu
 1220 1225 1230
 Gln Gln Ala Lys Pro Tyr Val Asp Glu Lys Gln Ser Lys Thr Phe Trp
 1235 1240 1245
 Phe Asp Ile Arg Asn Thr Asp Arg Ser Val Gly Ala Ser Leu Ser Gly
 1250 1255 1260
 Tyr Ile Ala Gln Thr His Gly Asp Gln Gly Leu Ala Ser Asp Pro Ile
 1265 1270 1275 1280
 Thr Ala His Phe Ser Gly Thr Ala Gly Gln Ser Phe Gly Val Trp Asn
 1285 1290 1295
 Ala Gly Gly Val Glu Leu Tyr Leu Thr Gly Asp Ala Asn Asp Tyr Val
 1300 1305 1310
 Gly Lys Gly Met Ala Gly Gly Leu Leu Ala Val Arg Pro Pro Val Gly
 1315 1320 1325
 Ser Ala Phe Arg Ser His Glu Ala Ser Ile Ile Gly Asn Thr Cys Leu
 1330 1335 1340
 Tyr Gly Ala Thr Gly Gly Arg Leu Phe Ala Ala Gly Arg Ala Gly Glu
 1345 1350 1355 1360
 Arg Phe Ala Val Arg Asn Ser Gly Ala Ile Thr Val Val Glu Gly Ile
 1365 1370 1375
 Gly Asp Asn Gly Cys Glu Tyr Met Thr Gly Gly Ile Val Cys Val Leu
 1380 1385 1390
 Gly Lys Thr Gly Val Asn Phe Gly Ala Gly Met Thr Gly Gly Phe Ala
 1395 1400 1405
 Tyr Val Leu Asp Glu Asp Gly Glu Phe Arg Lys Arg Val Asn Pro Glu
 1410 1415 1420
 Leu Val Glu Val Leu Asp Val Asp Thr Leu Ala Ile His Glu Glu His
 1425 1430 1435 1440
 Leu Arg Gly Leu Ile Thr Glu His Val Gln His Thr Gly Ser Ser Arg
 1445 1450 1455
 Gly Glu Glu Ile Leu Ala Asn Trp Pro Ala Phe Ser Ala Lys Phe Ala
 1460 1465 1470
 Leu Val Lys Pro Lys Ser Ser Asp Val Lys Ala Leu Leu Gly His Arg
 1475 1480 1485
 Ser Arg Ser Ala Ala Glu Leu Arg Val Gln Ala Gln
 1490 1495 1500

<210> 7881

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 7881

Gly Ile Gln Met Ser Gln Asn Val Tyr Gln Phe Ile Asp Leu Gln Arg
 1 5 10 15
 Val Asp Pro Pro Lys Lys Pro Leu Lys Ile Arg Lys Ile Glu Phe Val
 20 25 30
 Glu Ile Tyr Glu Pro Phe Ser Glu Gly Gln Ala Lys Ala Gln Ala Asp
 35 40 45
 Arg Cys Leu Ser Cys Gly Asn Pro Tyr Cys Glu Trp Lys Cys Pro Val
 50 55 60

His Asn Tyr Ile Pro Asn Trp Leu Lys Leu Ala Asn Glu Gly Arg Ile
 65 70 75 80
 Phe Glu Ala Ala Glu Leu Ser His Gln Thr Asn Thr Leu Pro Glu Val
 85 90 95
 Cys Gly Arg Val Cys Pro Gln Asp Arg Leu Cys Glu Gly Ser Cys Thr
 100 105 110
 Leu Asn Asp Glu Phe Gly Ala Val Thr Ile Gly Asn Ile Glu Arg Tyr
 115 120 125
 Ile Asn Asp Lys Ala Phe Glu Met Gly Trp Arg Pro Asp Met Thr Gly
 130 135 140
 Val Arg Gln Thr Asp Lys Arg Val Ala Ile Ile Gly Ala Gly Pro Ala
 145 150 155 160
 Gly Leu Ala Cys Ala Asp Val Leu Thr Arg Asn Gly Val Lys Ala Val
 165 170 175
 Val Phe Asp Arg His Pro Glu Ile Gly Gly Leu Leu Thr Phe Gly Ile
 180 185 190
 Pro Ala Phe Lys Leu Glu Lys Glu Val Met Thr Arg Arg Arg Glu Ile
 195 200 205
 Phe Thr Gly Met Gly Ile Glu Phe Lys Leu Asn Thr Glu Val Gly Arg
 210 215 220
 Asp Val Gln Leu Asp Asp Leu Leu Lys Asp Tyr Asp Ala Val Phe Leu
 225 230 235 240
 Gly Val Gly Thr Tyr Gln Ser Met Arg Gly Gly Leu Glu Asn Glu Asp
 245 250 255
 Ala Pro Gly Val Tyr Asp Ala Leu Pro Phe Leu Ile Ala Asn Thr Lys
 260 265 270
 Gln Leu Met Gly Tyr Gly Glu Thr Ala Asp Glu Pro Phe Val Ser Met
 275 280 285
 Glu Gly Lys Arg Val Val Val Leu Gly Gly Gly Asp Thr Ala Met Asp
 290 295 300
 Cys Val Arg Thr Ser Ile Arg Gln Asn Ala Ala His Val Ile Cys Ala
 305 310 315 320
 Tyr Arg Arg Asp Glu Glu Asn Met Pro Gly Ser Lys Arg Glu Val Lys
 325 330 335
 Asn Ala Arg Glu Glu Gly Val Glu Phe Gln Phe Asn Ile Gln Pro Leu
 340 345 350
 Gly Ile Glu Val Asn Ala Asn Gly Lys Val Ser Gly Val Lys Met Ala
 355 360 365
 Arg Thr Glu Met Gly Ala Pro Asp Ala Lys Gly Arg Arg Arg Ala Glu
 370 375 380
 Ile Val Ala Gly Ser Glu His Val Ile Pro Ala Asp Ala Val Val Met
 385 390 395 400
 Ala Phe Gly Phe Arg Pro His Ser Met Glu Trp Leu Ala Lys His Ser
 405 410 415
 Val Glu Leu Asp Ser Gln Gly Arg Ile Ile Ala Pro Glu Gly Ser Asp
 420 425 430
 Asn Ala Phe Gln Thr Ser Asn Pro Lys Ile Phe Ala Gly Gly Asp Ile
 435 440 445
 Val Arg Gly Ser Asp Leu Val Val Thr Ala Ile Ala Glu Gly Arg Lys
 450 455 460
 Ala Ala Glu Gly Ile Met Asn Phe Leu Glu Val
 465 470 475

<210> 7882

<211> 555

<212> PRT

<213> Enterobacter cloacae

<400> 7882

Thr Lys Phe Trp Glu Thr Met Ser Arg Phe Phe Phe Asn Asp Arg Lys
 1 5 10 15

Gln Leu Val Asn Asp Ala Ile Glu Gly Ile Leu Leu Ser Ala Pro His
 20 25 30
 Gly Asn Leu Val Lys Leu Asp Ile Asp Pro Ala Ile Arg Val Val Ala
 35 40 45
 Arg Gly Asp Trp Asp Lys Ser Arg Val Ala Val Ile Ser Gly Gly Gly
 50 55 60
 Ser Gly His Glu Pro Ala His Ala Gly Phe Val Gly Lys Gly Met Leu
 65 70 75 80
 Thr Ala Ala Val Cys Gly Asp Leu Phe Ala Ser Pro Ser Val Asp Ala
 85 90 95
 Val Leu Asn Ala Ile Val Ala Val Thr Gly Asp Arg Gly Cys Leu Leu
 100 105 110
 Ile Val Lys Asn Tyr Thr Gly Asp Arg Leu Asn Phe Gly Leu Ala Ala
 115 120 125
 Glu Lys Ala Lys Arg Tyr Gly Leu Lys Val Glu Met Val Ile Val Ala
 130 135 140
 Asp Asp Ile Ala Leu Pro Asp Asn Lys Gln Pro Arg Gly Ile Ala Gly
 145 150 155 160
 Thr Ala Leu Val His Lys Ile Ala Gly Tyr Ala Ala Glu Gln Gly Lys
 165 170 175
 Ser Leu Asn Asp Val Arg Asp Ile Ala Gln Gln Ala Cys Asp Asn Leu
 180 185 190
 Trp Ser Leu Gly Val Ala Met Gln Thr Cys Asn Leu Pro Gly Ser Asp
 195 200 205
 Asp Glu Gly Gly Arg Ile Lys Gln Gly His Val Glu Leu Gly Leu Gly
 210 215 220
 Ile His Gly Glu Pro Gly Ala Ser Val Val Asp Thr Gln Asn Ser Lys
 225 230 235 240
 Ala Ile Ile Asp Thr Leu Val Thr Pro Leu Arg Ala Gln Ala Gly Glu
 245 250 255
 Gly Arg Phe Ala Val Leu Ile Asn Asn Leu Gly Gly Val Ser Ala Leu
 260 265 270
 Glu Met Ala Leu Leu Thr Lys Glu Leu Ala His Ser Ala Leu Lys Glu
 275 280 285
 Asn Ile Ala Tyr Leu Ile Gly Pro Ala Pro Leu Val Ser Ala Leu Asp
 290 295 300
 Met Lys Gly Phe Ser Leu Thr Leu Leu Lys Leu Asn Asp Phe Phe Glu
 305 310 315 320
 Lys Ala Ile His Ala Glu Val Glu Thr Leu Gly Trp Gln Lys Pro Val
 325 330 335
 Ala Phe Ala Pro Leu Arg Thr Val Pro His Ser Ala Leu His Asp Arg
 340 345 350
 Val Glu Tyr Ala Pro Ser Asp Asn Thr Glu Val Ser Glu Ala Val Ala
 355 360 365
 Ser Val Thr Lys Thr Leu Ile Gln Leu Glu Asn Arg Leu Asn Ala Leu
 370 375 380
 Asp Ala Lys Val Gly Asp Gly Asp Thr Gly Ser Thr Phe Ala Gln Gly
 385 390 395 400
 Ala Arg Asp Ile Thr Gln Arg Leu Glu Glu Asn Asn Leu Pro Leu Asn
 405 410 415
 Asp Val Pro Thr Leu Leu Leu Val Gly Glu Arg Leu Ala Thr Val
 420 425 430
 Met Gly Gly Ser Ser Gly Val Leu Met Ser Ile Phe Thr Ala Ala
 435 440 445
 Gly Gln Lys Leu His Asp Gly Gln Pro Leu Pro Glu Ala Leu Leu Ser
 450 455 460
 Gly Leu Ala Gln Met Lys Gln Tyr Gly Gly Ala Asp Leu Gly Asp Arg
 465 470 475 480
 Thr Leu Ile Asp Ala Leu Gln Pro Ala Leu Glu Ala Leu Gln Lys Gly
 485 490 495
 Asn Ile Gln Ala Ala Ala Gln Ala Ala Gln Gln Gly Ala Glu Ala Thr

500					505					510				
Ala	Lys	Met	Ala	Lys	Ala	Gly	Ala	Gly	Arg	Ser	Ser	Tyr	Val	
515					520					525				
Glu	Asn	Leu	Asp	Gly	Val	Met	Asp	Pro	Gly	Ala	Val	Ala	Val	
530					535					540				
Val	Phe	Lys	Thr	Met	Val	Asp	Ala	Lys	Arg	545				
545					550					555				

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<210> 7883
<211> 344
<212> PRT
<213> Enterobacter cloacae
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400>	7883																		
Lys	Pro	Ser	Arg	Ala	Ile	Asp	Pro	Gly	His	Arg	Arg	Gln	Arg	Leu	Lys				
1				5				10						15					
Met	Ala	Gly	Leu	Ser	Pro	Phe	Phe	Gly	Thr	Val	Tyr	Gln	Ile	Met	Gln				
			20					25					30						
Leu	Gln	Lys	Leu	Val	Asn	Met	Phe	Gly	Gly	Asp	Leu	Leu	Gln	Arg	Tyr				
		35					40					45							
Gly	Gln	Lys	Val	His	Lys	Leu	Thr	Leu	His	Gly	Gly	Phe	Ser	Cys	Pro				
		50				55				60									
Asn	Arg	Asp	Gly	Thr	Ile	Gly	Arg	Gly	Gly	Cys	Thr	Phe	Cys	Asn	Val				
65					70					75				80					
Ala	Ser	Phe	Ala	Asp	Glu	Ala	Gln	Gln	His	Lys	Ser	Ile	Ala	Glu	Gln				
				85					90					95					
Leu	Ala	His	Gln	Ala	Ser	Leu	Val	Asn	Arg	Ala	Lys	Gln	Tyr	Leu	Ala				
			100					105					110						
Tyr	Phe	Gln	Ala	Tyr	Thr	Ser	Thr	Trp	Ala	Glu	Val	Gln	Val	Leu	Arg				
		115					120					125							
Ser	Met	Tyr	Gln	Gln	Ala	Val	Ala	Gln	Ala	Asn	Ile	Val	Gly	Leu	Cys				
						135					140								
Val	Gly	Thr	Arg	Pro	Asp	Cys	Val	Pro	Asp	Ala	Val	Leu	Asp	Leu	Leu				
145					150					155				160					
Ser	Glu	Tyr	Lys	Glu	Lys	Gly	Tyr	Glu	Ile	Trp	Leu	Glu	Leu	Gly	Leu				
				165					170					175					
Gln	Thr	Ala	His	Asp	Lys	Thr	Leu	His	Arg	Ile	Asn	Arg	Gly	His	Asp				
			180					185					190						
Phe	Ala	Cys	Tyr	Gln	Arg	Thr	Thr	Arg	Leu	Ala	Arg	Gln	Arg	Gly	Leu				
		195					200					205							
Lys	Val	Cys	Ser	His	Leu	Ile	Val	Gly	Leu	Pro	Gly	Glu	Gly	Arg	Gln				
		210				215					220								
His	Gly	Leu	Glu	Thr	Leu	Glu	Lys	Val	Val	Glu	Thr	Gly	Val	Asp	Gly				
225					230					235				240					
Ile	Lys	Leu	His	Pro	Leu	His	Ile	Val	Lys	Gly	Ser	Ile	Met	Ala	Lys				
				245					250					255					
Ala	Trp	Glu	Ala	Gly	Arg	Leu	Cys	Gly	Ile	Glu	Leu	Asp	Asp	Tyr	Thr				
			260					265				270							
Val	Thr	Ala	Gly	Glu	Met	Ile	Arg	His	Thr	Pro	Pro	Glu	Ile	Val	Tyr				
		275					280					285							
His	Arg	Ile	Ser	Ala	Ser	Ala	Arg	Arg	Pro	Thr	Leu	Leu	Ala	Pro	Leu				

<210>	7884
<211>	316

<212> PRT

<213> *Enterobacter cloacae*

<400> 7884

Gln Thr Ser Gln His Ala Ala Tyr Tyr Leu Val Gly Asn Leu Thr Arg
 1 5 10 15
 Arg Ala Phe Cys His Gly Leu Asn His Ala Ala Phe Ala Ala Ala
 20 25 30
 Trp Pro Gly Ala Ala Glu Gln Asn Ile Phe Gln Pro Ala Glu Asn Ala
 35 40 45
 Val Val His Gly Asn Arg Leu Pro Phe Cys Gly Arg Ile Leu Arg
 50 55 60
 Phe Gly Ser Arg Leu His Pro Phe Leu Gln His Leu Glu Arg Arg Phe
 65 70 75 80
 Ala Ile His Leu Val Phe Ile Leu Ser Val His Arg Gly Val Val Asn
 85 90 95
 Gln Ala Val Ala Phe Ile Val Arg Tyr Arg Thr His Ala Arg Ala Gly
 100 105 110
 Arg Asn His His Arg Ala Leu Asp Asn Cys Arg Ala Ala Phe Cys Ile
 115 120 125
 Glu Glu Arg Asn Gln Arg Phe Thr Gly Ala Gln Arg Leu Asn Gly Gly
 130 135 140
 Phe Gly Ile Lys Gly Arg Ile Asp Thr His Gly Leu Arg Arg Gly Phe
 145 150 155 160
 His Arg Phe Leu Ile Phe Arg Arg Lys Gly Ala Gln Gly Val Leu His
 165 170 175
 Ala Val Thr Gln Leu Pro Gln Tyr Val Val Arg Asn Ile Arg Arg Val
 180 185 190
 Leu Arg His Lys Pro Asp Pro Asp Ala Phe Gly Ala Asp Gln Ala Asp
 195 200 205
 Asn Leu Phe Asn Phe Ile Gln Gln His Leu Arg Arg Val Val Lys Gln
 210 215 220
 Gln Val Arg Phe Val Lys Glu Glu His Gln Phe Gly Phe Phe Gln Ile
 225 230 235 240
 Ala Cys Phe Arg Gln Leu Phe Val Gln Phe Arg Glu His Pro Gln Gln
 245 250 255
 Ala Gly Gly Val Lys Leu Arg His Leu Val Glu Leu Leu Cys Ala Gln
 260 265 270
 Asn Val Asp Asp Ala Phe Ala Ala Ala Val Gly Thr His Pro Val Phe
 275 280 285
 Asp Ile Gln His Trp Leu Ala Glu Glu Val Phe Gly Ala Leu Leu Leu
 290 295 300
 Gln Arg Gln Glu Pro Ala Leu Asn Gly Ala His
 305 310 315

<210> 7885

<211> 225

<212> PRT

<213> *Enterobacter cloacae*

<400> 7885

Gln Met Lys Lys Val Val Leu Ala Ser Met Leu Val Met Phe Val Ser
 1 5 10 15
 Ser Ala Phe Ala Ala Asp Thr Ala Val Leu Lys Val Thr Gly Val Leu
 20 25 30
 Thr Asn Ser Ser Cys Ile Pro Glu Ile Ser Gly Gly Gly Val Val Asp
 35 40 45
 Tyr Gly Thr Ile His Leu Ser Ala Leu Asn Thr Thr Ala Ile Asn Gln
 50 55 60
 Leu Gly Gln Lys Asp Phe Ser Leu Ser Ile Thr Cys Pro Ala Leu Thr
 65 70 75 80

Lys Ala Gly Phe Ser Val Ser Asp Asp Arg Thr Gly Thr Ala Pro Asn
 85 90 95
 Ile Met Val Lys Asp Gly Ala Gly Asn Gly Asn Asp Ile Ile Gln Pro
 100 105 110
 Leu Asn Met Phe Gly Leu Asn Lys Thr Ala Gly Asn Val Asn Ile Gly
 115 120 125
 Asn Tyr Thr Ile Phe Val Lys Asn Asp Thr Ile Thr Ala Asp Gly Ala
 130 135 140
 Thr Val Gly Ala Ile Tyr Ser Ala Asp Asn Gly Thr Ser Trp Ser Asp
 145 150 155 160
 Asn Gly Thr Leu Met Val Asn Asp Gly Ser Gln Ile Val Ser Val Ala
 165 170 175
 Thr Val Gly Ser Thr Ala Pro Val Ala Phe Lys Asn Leu Val Ile Pro
 180 185 190
 Met Ala Val Ser Ala Ala Ile Gln Asp Thr Asn Thr Leu Ala Ile Thr
 195 200 205
 Asp Asp Thr Asn Met Asp Gly Gln Ala Thr Phe Thr Ile Lys Tyr Leu
 210 215 220

225

<210> 7886

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7886

Leu Pro Gly Thr Gln Thr Ser Arg Gly Tyr Glu Ile Met Ser Thr Ala
 1 5 10 15
 Lys Leu Val Lys Thr Lys Ala Ser Asn Leu Leu Tyr Thr Arg Asn Asp
 20 25 30
 Val Ser Asp Ser Asp Lys Lys Ala Thr Ile Glu Leu Leu Asn Arg Gln
 35 40 45
 Val Val Gln Phe Ile Asp Leu Ser Leu Ile Thr Lys Gln Ala His Trp
 50 55 60
 Asn Met Arg Gly Ala Asn Phe Ile Ala Val His Glu Met Leu Asp Gly
 65 70 75 80
 Phe Arg Thr Ala Leu Val Thr His Leu Asp Thr Met Ala Glu Arg Ala
 85 90 95
 Val Gln Leu Gly Gly Val Ala Leu Gly Thr Thr Gln Val Ile Asn Ser
 100 105 110
 Lys Thr Pro Leu Lys Ser Tyr Pro Leu Asp Ile His Thr Val Gln Asp
 115 120 125
 His Leu Lys Glu Leu Ala Asp Arg Tyr Ala Ile Val Ala Asn Asp Val
 130 135 140
 Arg Lys Ala Ile Gly Glu Ala Lys Asp Glu Asp Thr Ala Asp Ile Phe
 145 150 155 160
 Thr Ala Ala Ser Arg Asp Leu Asp Gln Phe Leu Trp Phe Ile Glu Ser
 165 170 175

Asn Ile Glu

180

<210> 7887

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 7887

Lys Lys Asp Glu Asn Pro Val Ile Glu Phe Lys Asn Val Ser Lys His
 1 5 10 15
 Phe Gly Pro Thr Gln Val Leu His Asn Ile Asp Leu Asn Ile Arg Gln

[illegible]

<210> 7888

<211> 776

<212> PRT

<213> Enterobacter cloacae

 $\langle 220 \rangle$

<221>UNSURE

<222> (539)

<400> 7888

1	Pro	His	Thr	Glu	Pro	Gly	Met	Pro	Gly	Phe	Phe	Met	Pro	Asp	Cys	Ser
5									10						15	
Gln	Lys	Leu	Pro	Ser	Ala	Pro	Arg	Ala	Leu	Tyr	Leu	Ser	Phe	Cys	Thr	
20								25						30		
Ile	Phe	Leu	Ser	Glu	Asp	Ala	Val	Pro	Trp	Ile	Leu	Leu	Leu	Leu	Phe	
35							40						45			
Ser	Leu	Phe	Ser	Ala	Pro	Ser	Leu	Ala	Val	Thr	Leu	Pro	Gly	Val	Thr	
50						55					60					
Thr	Gly	Ala	Thr	Ala	Ser	Gln	Gln	Asn	Ala	Pro	Pro	Glu	Pro	Asp	Ala	
65					70				75					80		
Glu	Lys	Lys	Lys	Ala	Ala	Tyr	Gly	Ala	Leu	Ala	Asp	Val	Leu	Glu	Asn	
				85				90						95		
Asp	Thr	Ser	Arg	Gln	Glu	Leu	Ile	Asp	Gln	Leu	Arg	Lys	Val	Ala	Ala	
			100					105						110		
Thr	Pro	Pro	Gln	Asp	Pro	Val	Pro	Ala	Val	Ala	Pro	Pro	Glu	Ala	Glu	
			115				120					125				
Glu	Glu	Thr	Val	Leu	Glu	Asn	Val	Thr	Asp	Ile	Ser	Arg	Arg	Tyr		
130					135					140						
Gly	Glu	Ala	Leu	Ser	Ser	Arg	Phe	Ala	Gln	Leu	Tyr	Arg	Asn	Leu	Val	
145					150					155				160		
Gly	Thr	Ser	His	Lys	Pro	Phe	Asn	Pro	His	Thr	Phe	Ser	Ala	Ala	Ala	

				165				170				175	
Thr	Gln	Phe	Ala	Ile	Leu	Ala	Gly	Ala	Val	Phe	Ile	Phe	Tyr
			180					185				190	Trp
Leu	Arg	Leu	Ser	Val	Trp	Pro	Leu	Tyr	Arg	Lys	Met	Gly	Gln
			195					200				205	Trp
Arg	Lys	Lys	Asn	Gln	His	Lys	Ser	Ser	Trp	Leu	His	Leu	Pro
			210					215				220	Ala
Ile	Thr	Gly	Ala	Phe	Val	Ile	Asp	Leu	Leu	Leu	Leu	Ala	Leu
			225					230				235	Thr
Phe	Val	Gly	Gln	Leu	Leu	Ala	Asp	Arg	Leu	Asn	Thr	Gly	Asn
			245					250				255	Lys
Ile	Ala	Phe	Gln	Gln	Gly	Leu	Phe	Leu	Asn	Ala	Phe	Ala	Leu
			260					265				270	Ile
Phe	Phe	Lys	Ala	Leu	Leu	Arg	Leu	Ile	Phe	Cys	Pro	Arg	Val
			275					280				285	Pro
Leu	Arg	Pro	Phe	Ala	Ile	Ser	Asp	Gln	Ser	Ala	Lys	Tyr	Trp
			290					295				300	Ala
Arg	Leu	Ser	Val	Leu	Ser	Gly	Leu	Ile	Gly	Tyr	Gly	Leu	Leu
			305					310				315	Val
Val	Pro	Ile	Ile	Ser	Asn	Gln	Val	Asn	Val	Gln	Phe	Gly	Ala
			325					330				335	Leu
Asn	Val	Leu	Ile	Met	Leu	Cys	Ile	Thr	Val	Trp	Ala	Leu	Tyr
			340					345				350	Ile
Phe	His	Asn	Lys	Lys	Ala	Ile	Thr	Asp	Ser	Leu	Leu	His	Leu
			355					360				365	Ala
Arg	Ser	Leu	Ser	Phe	Phe	Ser	Leu	Phe	Ile	Arg	Ala	Phe	Ala
			370					375				380	Leu
Trp	His	Trp	Leu	Ala	Ser	Ala	Tyr	Phe	Ile	Val	Leu	Cys	Phe
			385					390				395	Phe
Leu	Phe	Asp	Pro	Gly	Asn	Ser	Leu	Lys	Phe	Met	Met	Gly	Ala
			405					410				415	Thr
Lys	Ser	Leu	Ala	Ile	Ile	Gly	Ile	Ala	Ala	Phe	Val	Ser	Gly
			420					425				430	Leu
Ser	Arg	Trp	Leu	Ser	Lys	Thr	Ile	Thr	Leu	Ser	Pro	Gln	Val
			435					440				445	Gln
Asn	Tyr	Pro	Glu	Leu	Gln	Lys	Arg	Val	Asn	Gly	Trp	Met	Thr
			450					455				460	Val
Leu	Lys	Val	Ala	Arg	Ile	Leu	Thr	Val	Cys	Val	Ala	Ile	Met
			465					470				475	Leu
Leu	Asn	Ala	Trp	Gly	Leu	Phe	Asp	Phe	Trp	Asn	Trp	Leu	His
			485					490				495	Asn
Ala	Gly	Glu	Lys	Thr	Val	Asp	Ile	Leu	Ile	Arg	Ile	Ala	Leu
			500					505				510	Ile
Phe	Phe	Ser	Ala	Val	Gly	Trp	Thr	Leu	Leu	Ala	Ser	Leu	Ile
			515					520				525	Glu
Arg	Leu	Val	Ser	Asp	Val	His	Gly	Arg	Pro	Xaa	Pro	Ser	Ala
			530					535				540	Arg
Arg	Thr	Leu	Leu	Thr	Leu	Cys	Arg	Asn	Ala	Leu	Ala	Val	Ile
			545					550				555	Ser
Thr	Ile	Thr	Ile	Met	Ile	Val	Leu	Ser	Glu	Ile	Gly	Val	Asn
			565					570				575	Ile
Pro	Leu	Leu	Ala	Gly	Ala	Gly	Ala	Leu	Gly	Leu	Ala	Ile	Ser
			580					585				590	Phe
Ser	Gln	Thr	Leu	Val	Lys	Asp	Ile	Ile	Thr	Gly	Ile	Phe	Ile
			595					600				605	Gln
Glu	Asn	Gly	Met	Asn	Thr	Gly	Asp	Leu	Val	Thr	Ile	Gly	Pro
			610					615				620	Leu
Gly	Thr	Val	Glu	Arg	Met	Ser	Ile	Arg	Ser	Val	Gly	Val	Arg
			625					630				635	Gln
Thr	Gly	Ala	Tyr	His	Ile	Ile	Pro	Trp	Ser	Ser	Ile	Thr	Thr
			645					650				655	Ala

Asn Phe Val Arg Gly Ile Gly Ser Val Val Ala Asn Tyr Asp Val Asp
 660 665 670
 Arg His Glu Asp Ala Asp Lys Ala Lys Gln Ala Leu Arg Asp Ala Val
 675 680 685
 Asn Glu Leu Met Glu Met Glu Asp Ile Arg Gly Leu Val Ile Gly Glu
 690 695 700
 Pro Ser Phe Ala Gly Ile Val Gly Leu Thr Asn Thr Ala Phe Thr Leu
 705 710 715 720
 Arg Val Ser Phe Thr Thr Gln Pro Leu Lys Gln Trp Thr Val Arg Phe
 725 730 735
 Ala Leu Asp Ser Met Val Lys Lys His Phe Asp Leu Ala Asn Val Arg
 740 745 750
 Ala Pro Val Gln Thr Tyr Gln Val Leu Ser Pro Pro Ala Ser Pro Leu
 755 760 765
 Pro Pro Gln Glu Pro Thr Leu
 770 775

<210> 7889

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 7889

Glu Glu Ser Pro Val Val Ser Pro Glu Asp Val Ile Met Lys Lys Tyr
 1 5 10 15
 Leu Thr Phe Ile Ile Ala Gly Ala Leu Ala Gly Ala Ser Phe Ser Ala
 20 25 30
 Trp Ser Val Gln Pro Leu Thr Asp Ser Asn Asp Thr Ser Gln Leu Arg
 35 40 45
 Ala Ala Gly Thr Val Ser Val Ser Arg Ala Ser Asn Leu Asp Asp Leu
 50 55 60
 Gln Asn Lys Leu Ala Glu Lys Ala Arg Gln Glu Gly Ala Lys Gly Phe
 65 70 75 80
 Val Val Asn Ala Ala Gly Gly Asp Asn His Met Tyr Gly Thr Ala Thr
 85 90 95
 Ile Tyr Lys

100

<210> 7890

<211> 861

<212> PRT

<213> Enterobacter cloacae

<400> 7890

Thr Arg Ser Leu Ile Val Leu Pro Gly Asn Lys Ile Ile Met Tyr Ser
 1 5 10 15
 His Lys Lys Pro Phe Thr Cys Arg Phe Ser Ser Leu Leu Met Ala Ile
 20 25 30
 Cys Cys Leu Ala Met Ala Ile Phe Ala Gln Gln Val Leu Ala Asp Asp
 35 40 45
 Tyr Phe Asn Pro Ala Leu Leu Asp Ile Asp Asn Pro Gln Gln Gly Lys
 50 55 60
 Thr Asp Leu Ser Val Tyr Glu Lys Gly Pro Gly Gln Ala Pro Gly Lys
 65 70 75 80
 Tyr Gln Val Ala Ile Phe Ile Asn Asn Asn Lys Ile Asp Thr Arg Asp
 85 90 95
 Val Thr Phe Asn Leu Val Lys Asp Pro Gln Gly Thr Ser Thr Leu Gln
 100 105 110
 Pro Cys Phe Thr Leu Asp Glu Leu Lys Ser Leu Gly Ile Lys Thr Gln
 115 120 125
 Lys Tyr Pro Gln Leu Arg Ala Lys Gly Gln Cys Ala Asp Leu His Ala

130	135	140
Ile Pro Ser Ala Ser	Ala Thr Phe Arg Val	Arg Asn Gln Gln Leu Leu
145	150	155
Leu Ser Ile Pro Gln	Lys Ala Leu Gly Gln	Val Pro Arg Gly Tyr Ile
165	170	175
Asp Pro Lys Glu Phe	Asp Glu Gly Ile Asn	Ala Gly Leu Leu Asn Tyr
180	185	190
Ser Val Asn Ala Ser	Gln Ser His Ala Arg	Gln Gln Gly Glu Glu Asn
195	200	205
Ser Ser Ser Gln Tyr	Val Asn Leu Arg Pro	Gly Phe Asn Ile Gly Ala
210	215	220
Trp Arg Val Arg Asn	Tyr Ser Thr Trp Asn	Arg Ser Thr Thr Gly His
225	230	235
Glu Glu Glu Gln Lys	Phe Thr Ser Val Tyr	Thr Tyr Ala Gln Arg Asp
245	250	255
Ile Val Ala Met Lys	Ser Asp Val Thr Val	Gly Gln Ser Thr Ser Pro
260	265	270
Ser Asp Val Phe Asp	Ser Val Pro Tyr Thr	Gly Val Glu Leu Lys Ser
275	280	285
Asp Ser Asp Met Leu	Pro Asp Ser Glu Lys	Gly Tyr Ala Pro Ile Ile
290	295	300
Arg Gly Ser Ala His	Ser Asn Ala Gln Val	Val Val Arg Gln Asn Gly
305	310	315
Tyr Ile Ile Tyr Gln	Asn Thr Val Ala Pro	Gly Ala Phe Glu Ile Asn
325	330	335
Asp Leu Tyr Pro Thr	Gly Ser Ser Gly Asp	Leu Gln Val Thr Val Lys
340	345	350
Glu Thr Asp Gly Ser	Glu Ser His Phe Val	Val Pro Phe Ala Ser Val
355	360	365
Pro Val Leu Gln Arg	Glu Lys Asn Leu Arg	Tyr Ser Val Thr Ala Gly
370	375	380
Arg Tyr Arg Ser Tyr	Asp Lys Asp Val Glu	Lys Thr Pro Phe Ala Gln
385	390	395
Gly Ser Ala Ile Tyr	Gly Leu Pro Phe Gly	Phe Thr Val Tyr Gly Gly
405	410	415
Val Gln Gln Ser Asn	His Tyr Gln Ser Gln	Ala Ile Gly Ala Gly Lys
420	425	430
Asn Met Gly Asp Leu	Gly Ala Phe Ser Ile	Asp Val Thr Arg Ala Arg
435	440	445
Ala Leu Leu Lys Lys	Gln Gln Ser Ser Lys	Gly Gln Ser Trp Arg Ile
450	455	460
Arg Tyr Ser Lys Asp	Phe Ala Gly Ser Gly	Thr Asn Phe Thr Leu Ala
465	470	475
Gly Tyr Arg Tyr Asn	Ser Lys Gly Phe Tyr	Thr Leu Asp Asp Thr Met
485	490	495
Glu Ser Tyr Thr Arg	Ser Asp Asn Trp Ser	Ala Pro Gln Gln Arg Arg
500	505	510
Ala Arg Thr Glu Ala	Thr Ile Asp Gln Thr	Leu Pro Glu Gly Trp Gly
515	520	525
Ser Val Thr Leu Ser	Met Val Lys Glu Thr	Tyr Trp Ser Gln Ser Gln
530	535	540
Asn Met Thr Ser Met	Ser Val Ser Tyr Asn	Asn Ser Trp His Gly Val
545	550	555
Ser Tyr Ser Leu Ser	Tyr Ser Met Asn Lys	Asn Thr Gln Asp Ser Asp
565	570	575
Glu Asp Gly Asn Glu	Val Thr Asn Asp Asn	Gln Phe Ser Leu Ser Val
580	585	590
Ser Val Pro Leu Asp	Arg Trp Met His Asn	Thr Trp Ala Thr Tyr Asn
595	600	605
Leu Asn Asn Thr Lys	Asp Gly Thr Thr Gln	Asn Ile Gly Leu Asn Gly
610	615	620

Thr Ala Leu Lys Glu Asp Asn Leu Asn Trp Asn Ile Gln Glu Gly Leu
 625 630 635 640
 Ser Ser Thr Gly Ser Gly Asn Ser Thr Ser Ile Asn Ala Asp Tyr Lys
 645 650 655
 Ala Thr Tyr Gly Glu Val Ser Ala Gly Val Ser Gln Asp Lys Tyr Gln
 660 665 670
 Gln Thr Leu Asn Val Gly Leu Gln Gly Gly Val Val Ala His Ala Asn
 675 680 685
 Gly Ile Thr Leu Ser Gln Pro Leu Gly Asp Thr Ile Ala Leu Val Lys
 690 695 700
 Ala Pro Gly Thr His Gly Thr His Ile Thr Asn Gln Thr Gly Val Glu
 705 710 715 720
 Thr Asp Phe Arg Gly Tyr Thr Val Val Pro Phe Val Thr Ala Tyr Arg
 725 730 735
 Arg Asn Thr Ile Ala Leu Asp Thr Glu Thr Leu Pro Asp Asn Ala Asp
 740 745 750
 Val Thr His Ala Ala Gln Ile Val Thr Pro Thr Arg Gly Ala Val Val
 755 760 765
 Arg Ala Ser Phe Asn Thr Arg Val Gly Asn Arg Val Leu Met Thr Leu
 770 775 780
 Thr Gln Lys Gly Lys Pro Leu Pro Phe Gly Ala Thr Val Thr Thr Glu
 785 790 795 800
 Asp Lys Asp Ser Glu Phe Ile Val Gly Asn Asp Gly Gln Thr Tyr Leu
 805 810 815
 Ser Gly Leu Pro Gln Gln Gly His Leu Tyr Val Ser Trp Gly Gln Gly
 820 825 830
 Ala Asn Glu His Cys Val Ala Asp Tyr Ala Leu Thr Asp Glu Lys Glu
 835 840 845
 Gln Thr Ser Ile Ile Asn Ala Ala Ala Gln Cys His
 850 855 860

<210> 7891

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 7891

Val Thr Asn Met Lys Lys Thr Ile Ala Phe Leu Thr Met Gly Leu Leu
 1 5 10 15
 Ala Gln Ala His Ala Asp Asp Ile Gln Ile Gln Met Thr Gly Asn Ile
 20 25 30
 Tyr Ala Asn Thr Cys Ile Ile Asp Ser Ala Ser Arg Asn Leu Thr Val
 35 40 45
 Asp Leu Gly Gln Thr Val Ser Gly Ser Phe Lys Asp Val Gly Asp Thr
 50 55 60
 Gly Glu Trp Lys Asp Phe Ser Leu Ser Val Ser His Cys Pro Ala Thr
 65 70 75 80
 Leu Ala Leu Ala Thr Ala Phe Phe Tyr Gly Gln Ala Asp Ser Val His
 85 90 95
 Pro Thr Lys Phe Ala Asn Ile Gly Ser Ala Lys Gly Leu Ala Leu Glu
 100 105 110
 Leu Ala Asp Arg Gln Asp Lys Ile Leu Ile Ala Pro Gln Ala Ala Phe
 115 120 125
 Asn Ala Ala Ile Asn Pro Ser Asp His Thr Ala Thr Phe Leu Leu Ser
 130 135 140
 Ala Arg Tyr Tyr Ala Thr Ser Met Pro Val Thr Ala Gly Thr Phe Ser
 145 150 155 160
 Ser Val Ile Gln Val Thr Phe Thr Tyr Gln
 165 170

<210> 7892

<211> 408
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 7892

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Lys Arg Arg Pro Pro Thr Thr Arg Ser Gln Thr Arg Pro Trp Ser Arg
1      5      10      15
Arg Leu Ser Pro Ser Ser Thr Thr Gly Ile Arg Arg Ile Leu Met Arg
20      25      30
Ser Asn Ala Leu Ser Trp Arg Arg Val Arg Ala Leu Cys Val Lys Glu
35      40      45
Thr Arg Gln Ile Val Arg Asp Pro Ser Ser Trp Leu Ile Ala Val Val
50      55      60
Ile Pro Leu Leu Leu Leu Phe Ile Phe Gly Tyr Gly Ile Asn Leu Asp
65      70      75      80
Ser Ser Lys Leu Arg Val Gly Ile Leu Leu Glu Gln Gln Ser Glu Glu
85      90      95
Ala Leu Asp Phe Thr His Ala Met Thr Gly Ser Pro Tyr Ile Asp Ala
100     105     110
Thr Ile Ser Asp Asn Arg Gln Glu Leu Ile Gln Lys Met Gln Ala Gly
115     120     125
Lys Ile Arg Gly Leu Ile Val Ile Pro Val Asp Phe Ala Ala Asn Met
130     135     140
Ala Arg Ala Asn Thr Asp Ala Pro Ile Gln Val Ile Thr Asp Gly Ser
145     150     155     160
Glu Pro Asn Thr Ala Asn Phe Val Gln Gly Tyr Ala Glu Gly Ile Trp
165     170     175
Gln Leu Trp Gln Met Gln Arg Ala Glu Asp Arg Gly Glu Glu Phe Glu
180     185     190
Pro Leu Ile Asp Val Gln Thr Arg Tyr Trp Phe Asn Pro Ala Ala Ile
195     200     205
Ser Gln His Phe Ile Ile Pro Gly Ala Val Thr Ile Ile Met Thr Val
210     215     220
Ile Gly Ala Ile Leu Thr Ser Leu Val Ile Ala Arg Glu Trp Glu Arg
225     230     235     240
Gly Thr Met Glu Ala Leu Leu Ser Thr Glu Val Thr Arg Val Glu Leu
245     250     255     260
Leu Leu Cys Lys Leu Ile Pro Tyr Tyr Phe Leu Gly Met Leu Ala Met
265     270     275
Leu Leu Cys Met Leu Val Ser Val Phe Ile Leu Gly Val Pro Tyr Arg
280     285     290
Gly Ser Leu Val Val Leu Phe Phe Ile Thr Ser Leu Phe Leu Leu Ser
295     300
Thr Leu Gly Met Gly Leu Leu Ile Ser Thr Ile Thr Arg Asn Gln Phe
305     310     315     320
Asn Ala Ala Gln Val Ala Leu Asn Ala Ala Phe Leu Pro Ser Ile Met
325     330     335
Leu Ser Gly Phe Ile Phe Gln Ile Asp Ser Met Pro Ala Val Ile Arg
340     345     350
Ala Val Thr Tyr Ile Ile Pro Ala Arg Tyr Phe Val Ser Thr Leu Gln
355     360     365
Ser Leu Phe Leu Ala Gly Asn Ile Pro Val Val Leu Ile Ile Asn Thr
370     375     380
Leu Phe Leu Met Ala Ser Ala Val Met Phe Ile Gly Leu Thr Trp Met
385     390     395     400
Lys Thr Lys Arg Arg Leu Asp
405

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<210> 7893
 <211> 272
 <212> PRT

<213> Enterobacter cloacae

<400> 7893

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Asn Trp His Asp Phe Phe Ile Val Pro Glu Val Leu Ala Gly Asp Arg
1      5      10
Pro Val Asp Ile Lys Gly Asn Ala Met Lys Ser Val Leu Lys Val Ser
      20      25      30
Leu Ala Ala Leu Thr Leu Ala Phe Ala Val Ser Ser Gln Ala Ala Asp
      35      40      45
Lys Leu Val Val Ala Thr Asp Thr Ala Phe Val Pro Phe Glu Phe Lys
      50      55      60
Gln Gly Asp Lys Tyr Val Gly Phe Asp Val Asp Leu Trp Ala Ala Val
65      70      75      80
Ala Lys Glu Leu Lys Leu Asp Tyr Thr Leu Lys Pro Met Asp Phe Ser
      85      90      95
Gly Ile Ile Pro Ala Leu Gln Thr Lys Asn Val Asp Leu Ala Leu Ala
      100      105      110
Gly Ile Thr Ile Thr Glu Glu Arg Lys Lys Ala Ile Asp Phe Ser Asp
      115      120      125
Gly Tyr Tyr Lys Ser Gly Leu Leu Val Met Val Lys Ala Asp Asn Asn
      130      135      140
Asp Val Lys Ser Val Lys Asp Leu Asp Gly Lys Val Val Ala Val Lys
145      150      155      160
Ser Gly Thr Gly Ser Val Asp Tyr Ala Lys Ala Asn Ile Lys Thr Lys
      165      170      175
Asp Leu Arg Gln Phe Pro Asn Ile Asp Asn Ala Tyr Met Glu Leu Gly
      180      185      190
Thr Asn Arg Ala Asp Ala Val Leu His Asp Thr Pro Asn Ile Leu Tyr
      195      200      205
Phe Ile Lys Thr Ala Gly Asn Gly Lys Phe Lys Ala Val Gly Asp Ser
      210      215      220
Leu Glu Ala Gln Gln Tyr Gly Ile Ala Phe Pro Lys Gly Ser Asp Asp
225      230      235      240
Leu Arg Asn Lys Val Asn Gly Ala Leu Lys Thr Leu Lys Glu Asn Gly
      245      250      255
Thr Tyr Asn Glu Ile Tyr Lys Lys Trp Phe Gly Thr Glu Pro Lys
      260      265      270

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<210> 7894

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 7894

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Arg Pro Val Ala Leu Thr Leu Thr Gly Pro Thr Phe Phe Val Phe His
1      5      10
His Gly Ile Gln Glu Tyr Ile Met Gln Phe Asp Trp Ser Ala Ile Trp
      20      25      30
Pro Ala Ile Pro Leu Leu Leu Glu Gly Ala Lys Met Thr Leu Trp Ile
      35      40      45
Ser Val Leu Gly Leu Val Gly Gly Leu Ile Ile Gly Leu Val Ala Gly
      50      55      60
Phe Ala Arg Thr Tyr Gly Gly Trp Ile Ala Asn His Ile Ala Leu Val
65      70      75      80
Phe Ile Glu Val Ile Arg Gly Thr Pro Ile Val Val Gln Val Met Phe
      85      90      95
Ile Tyr Phe Ala Leu Pro Met Ala Phe Thr Asp Leu Arg Ile Asp Pro
      100      105      110
Phe Ser Ala Ala Val Val Thr Ile Met Ile Asn Ser Gly Ala Tyr Ile
      115      120      125
Ala Glu Ile Thr Arg Gly Ala Val Leu Ser Ile His Lys Gly Phe Ser

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130		135		140
Glu Ala Gly Leu Ala	Leu Gly Leu Ser Arg	Arg Glu Thr Ile Arg His		
145	150	155	160	
Val Ile Leu Pro Leu Ala	Leu Arg Arg Met Leu Pro	Pro Leu Gly Asn		
	165	170	175	
Gln Trp Ile Ile Ser	Ile Lys Asp Thr Ser	Leu Phe Ile Val Ile Gly		
	180	185	190	
Val Ala Glu Leu Thr Arg	Gln Gly Gln Glu Ile Ile	Ala Gly Asn Phe		
	195	200	205	
Arg Ala Leu Glu Ile Trp	Ser Ala Val Ala Val	Val Tyr Leu Ile Ile		
	210	215	220	
Thr Leu Val Leu Ser Phe	Val Leu Arg Arg	Leu Glu Arg Arg Met Lys		
225	230	235	240	
Ile Leu				

<210> 7895

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 7895

Lys Arg Pro Gly Asn Val	Phe Ala Arg Asn Ile Ser	Gly Phe Thr Met
1	5	10
Asn Lys Val Ala Leu Gly	Leu Phe Ile Ala Ala Thr	Val Gly Cys Ser
	20	25
Ala Ser Ala Phe Ala Ala	Thr Asn Gly Glu Gly Gln	Ile Asn Phe Thr
	35	40
Gly Glu Ile Ile Asp Ser	Ala Cys Gln Val Val	Asn Gly Leu Ser Asn
	50	55
Pro Leu Asp Val Gln Leu	Gly Lys Val Ser Lys	Thr Val Phe Thr Gly
65	70	75
Ala Gly Ser Thr Ser Thr	Leu Thr Lys Phe Asp	Ile Lys Leu Thr Asn
	85	90
Cys Pro Glu Thr Val Thr	Ser Ala Ala Ile Asn	Phe Gly Gly Thr Pro
	100	105
Asp Ala Asp Asn Asn Ala	Ala Leu Ala Leu Thr	Pro Asp Thr Asp Ala
	115	120
Ala Thr Gly Val Ala Ile	Gln Leu Val Asp Thr	Ser Gly Gln Pro Val
	130	135
Ser Leu Tyr Thr Pro Ser	Lys Gln Tyr Pro Leu	Ala Ser Gly Thr Ala
145	150	155
Val Asn Asp Leu Glu Phe	Gly Ala Arg Tyr Ile	Gln Thr Gln Ala Ala
	165	170
Val Thr Ala Gly Pro Ala	Asn Ser Val Ser Thr	Phe Thr Val Ile Tyr
	180	185
Asn		190

<210> 7896

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 7896

Glu Ile Phe Met Arg His	Gly Tyr Leu Leu Ser Ile	Leu Leu Leu Val
1	5	10
Ala Ala Ser Ala Gln Ala	Gly Val Val Ile Asn	Gly Thr Arg Leu Val
	20	25
Tyr Gln Gly Asp Lys Lys	Glu Ser Ser Leu Gly	Leu Ser Asn Pro Asp
	35	40
		45

Thr Thr Asp Tyr Leu Val Gln Ser Trp Val Asp Ser Gly Gly Lys Asn
 50 55 60
 Gln Ala Lys Ala Pro Phe Leu Ile Thr Pro Pro Leu Phe Arg Leu Asp
 65 70 75 80
 Ala Lys Glu Asp Asn Val Leu Arg Val Val Arg Thr Gly Gly Asn Leu
 85 90 95
 Pro Glu Asp Arg Glu Ser Leu Tyr Trp Leu Asn Ile Lys Ala Ile Pro
 100 105 110
 Ser Ser Lys His Val Glu Gly Val Asn Thr Leu Gln Ile Ala Ile Asn
 115 120 125
 Thr Arg Ile Lys Leu Leu Tyr Arg Pro Ser Ala Val Lys Gly Arg Pro
 130 135 140
 Glu Asp Val Ala Asp Lys Leu Glu Trp His Arg Glu Gly Asn Asp Leu
 145 150 155 160
 Val Val Asn Asn Pro Thr Pro Phe Phe Met Asn Phe Gln Thr Val Thr
 165 170 175
 Leu Asn Gly Gln Lys Val Lys Lys Ala Thr Trp Ala Val Pro Lys Thr
 180 185 190
 Glu Thr His Phe Ala Leu Pro Gly Asn Val Gly Gly Ser Thr Val Ala
 195 200 205
 Tyr Ser Ile Ile Thr Asp Tyr Gly Ser Ile Ser Gln Thr Trp Ser Lys
 210 215 220
 Pro Val His
 225

<210> 7897

<211> 355

<212> PRT

<213> Enterobacter cloacae

<400> 7897

Arg Met Arg Lys Ser Lys Pro Ala Ser Leu Thr Leu Pro Arg Ser Val
 1 5 10 15
 Thr Asp Pro Pro Phe Arg Leu Thr Ile Met Gln Met Ile Lys Gln Cys
 20 25 30
 Phe Phe Leu Leu Val Leu Gly Thr Ala Ala Leu Phe Met Pro His Ala
 35 40 45
 Lys Ala Thr Cys Thr Thr Pro Asp Leu Pro Lys Met Ile Asn Met Ala
 50 55 60
 Ser Ile Ser Val Pro Thr Thr Leu Ala Val Gly Ala Thr Ile Pro Gly
 65 70 75 80
 Thr Glu Gln Ser Val His Val Ala Gly His Cys Asp Gln Ser Ile Asp
 85 90 95
 Ser Gly Leu Glu Ile Val Ser Cys Tyr Tyr Gly Thr Gly Ala Glu Ile
 100 105 110
 Pro Gly Leu Lys Gly Val Tyr Glu Ser Gly Val Pro Gly Val Gly Val
 115 120 125
 Ala Leu Met Asn Asp Gln Gly Gln Arg Ile Ser Gly Ala Gly Gly Val
 130 135 140
 Gln Cys Asp Ser Arg Gly Thr Pro Val Gly Tyr Val Ser Gly Asp Gly
 145 150 155 160
 Thr Gln Ser Phe Asn Phe Asp Val Thr Leu Glu Leu Val Lys Thr Ser
 165 170 175
 Asp Ala Val Thr Ser Gly Thr Leu Val Gln Ser Gln Thr Glu Phe Gly
 180 185 190
 Ile Gly Val Phe Gly His Glu Gly Ile Gly Ser Pro Asn His Ile Ala
 195 200 205
 Tyr Ala Gly Asn Val Ile Leu His Gln Val Thr Cys Ser Val Ser Pro
 210 215 220
 Lys Asn Leu Thr Val Asn Leu Gly Asp Phe Pro Val Ser Asp Phe Met
 225 230 235 240

Ser Val Gly Phe Leu Ser Ser Pro Ala Gln Thr Phe Asn Ile Thr Val
 245 250 255
 Asn Cys Asp Thr Thr Val Gln Pro Glu Leu Lys Ile Thr Ser Ala Asn
 260 265 270
 Ser Tyr Glu Thr Ala Phe Glu Gly Val Ile Lys Leu Thr Lys Gln Thr
 275 280 285
 Gly Met Ala Thr Gly Val Gly Val Arg Met Leu Phe Asp Asp Arg Ile
 290 295 300
 Ala Thr Phe Asp Thr Tyr Val Asn Thr Gln Ser Gln Ala Val Ala Asn
 305 310 315 320
 Glu Thr Leu Glu Ile Pro Phe Gln Val Arg Tyr Glu Gln Ile Ser Asp
 325 330 335
 Val Val Thr Pro Gly Pro Ala Asn Thr Val Ala Thr Ile Thr Leu Ala
 340 345 350
 Tyr Lys
 355

<210> 7898

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 7898

Ser Asp Pro Ala Arg Leu Asn Ala Lys Glu Pro Glu Val Met Lys Lys
 1 5 10 15
 Pro Val Ala Ile Ile Leu Val Val Val Leu Leu Ala Ala Gly Thr
 20 25 30
 Gly Gly Trp Leu Trp Tyr Gln Ser Gln Gln Asp Arg Gly Leu Thr Leu
 35 40 45
 Tyr Gly Asn Val Asp Ile Arg Thr Val Asn Met Ser Phe Arg Val Gly
 50 55 60
 Gly Arg Leu Ala Ser Leu Asn Val Asp Glu Gly Asp Ala Ile Lys Ala
 65 70 75 80
 Gly Gln Thr Leu Gly Met Leu Asp Lys Ala Pro Phe Glu Asn Ala Leu
 85 90 95
 Met Gln Ala Lys Ala Gly Val Ser Val Ala Gln Ala Gln Tyr Asp Leu
 100 105 110
 Met Leu Ala Gly Tyr Arg Asp Glu Glu Ile Ser Gln Ala Ala Ala
 115 120 125
 Val Lys Gln Ala Lys Ala Ala Tyr Asp Tyr Ala Gln Asn Phe Tyr Asn
 130 135 140
 Arg Gln Gln Gly Leu Trp Lys Ser Arg Thr Ile Ser Ala Asn Asp Leu
 145 150 155 160
 Glu Asn Ala Arg Ser Ser Arg Asp Gln Ala Gln Ala Thr Leu Lys Ser
 165 170 175
 Ala Gln Asp Lys Leu Ser Gln Tyr Arg Thr Gly Asn Arg Ala Gln Asp
 180 185 190
 Ile Ala Gln Ala Lys Ala Ser Leu Glu Gln Ala Gln Ala Gln Leu Ala
 195 200 205
 Gln Ala Glu Leu Asp Leu His Asp Thr Thr Leu Ile Ala Pro Ser Asp
 210 215 220
 Gly Thr Leu Met Thr Arg Ala Val Glu Pro Gly Ser Met Leu Ser Ala
 225 230 235 240
 Gly Ser Thr Val Leu Thr Leu Ser Leu Thr Arg Pro Val Trp Val Arg
 245 250 255
 Ala Tyr Ile Asp Glu Pro Asn Leu Gly Gln Met Gln Pro Gly Arg Glu
 260 265 270
 Leu Leu Leu Tyr Thr Asp Gly Arg Pro Asp Lys Pro Tyr His Gly Lys
 275 280 285
 Val Gly Phe Val Ser Pro Thr Ala Glu Phe Thr Pro Lys Thr Val Glu
 290 295 300

Thr Pro Asp Leu Arg Thr Asp Leu Val Tyr Arg Leu Arg Ile Ile Val
 305 310 315 320
 Thr Asp Ala Asp Asp Ala Leu Arg Gln Gly Met Pro Val Thr Val Thr
 325 330 335
 Leu Asn Asp Gly Glu Arg His Glu
 340 345

<210> 7899

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7899

Thr Asp Gln Glu Asn Met Met Ala Ser Gly Trp Ala Asn Asp Asp Ala
 1 5 10 15
 Val Asn Glu Gln Ile Asn Ser Thr Ile Glu Asp Ala Val Ala Arg Ala
 20 25 30
 Arg Gly Glu Ile Pro Arg Gly Glu Ser Leu Thr Glu Cys Glu Glu Cys
 35 40 45
 Gly Asp Pro Ile Pro Glu Ala Arg Arg Lys Ala Ile Pro Gly Val Arg
 50 55 60
 Leu Cys Ile Ala Cys Gln Gln Glu Lys Asp Ser Lys Asn Ala Thr His
 65 70 75 80
 Ser Gly Tyr Asn Arg Arg Gly Ser Lys Asp Ser Gln Leu Arg
 85 90 95

<210> 7900

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 7900

Pro Met Lys Thr Ile Lys Tyr Ala Val Ala Val Ala Leu Ser Ala
 1 5 10 15
 Leu Ser Phe Gly Ala Phe Ala Val Glu Pro Val Ser Ser Thr Gln Ala
 20 25 30
 Gln Asp Leu Asn Lys Ile Gly Val Val Ser Ala Glu Gly Ala Thr Thr
 35 40 45
 Leu Asp Gly Leu Glu Ala Lys Leu Ala Glu Lys Ala Ala Ala Gly
 50 55 60
 Ala Ser Gly Tyr Thr Ile Thr Ser Thr Asn Gly Asn Asn Lys Leu Ser
 65 70 75 80
 Gly Thr Ala Val Ile Tyr Lys
 85

<210> 7901

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 7901

Leu Ile Phe Asn Ala Ala Met Asn Thr Thr Pro Ala Thr Thr Lys Gly
 1 5 10 15
 Glu Gln Ala Lys Ser Gln Leu Ile Ala Ala Ala Leu Ala Gln Phe Gly
 20 25 30
 Glu Tyr Gly Leu His Ala Thr Thr Arg Asp Ile Ala Ala Gln Ala Gly
 35 40 45
 Gln Asn Ile Ala Ala Ile Thr Tyr Tyr Phe Gly Ser Lys Glu Asp Ser
 50 55 60
 Tyr Leu Ala Cys Ala Gln Trp Ile Ala Asp Phe Ile Gly Thr Ser Phe
 65 70 75 80

Arg Pro His Val Glu Ala Thr Ala Leu Phe Ser Gln Pro Glu Pro
 85 90 95
 Asp Arg Ala Ala Ile Arg Gln Leu Ile Leu Asn Ala Cys His Asn Met
 100 105 110
 Ile Arg Leu Leu Thr His Asp Asp Thr Leu Asn Leu Ser Lys Phe Ile
 115 120 125
 Ser Arg Glu Gln Leu Ser Pro Thr Ala Ala Tyr Gln Leu Val His Asp
 130 135 140
 Gln Val Ile Ala Pro Met His Ser His Leu Thr Arg Leu Ile Ala Ala
 145 150 155 160
 Tyr Thr Gly Arg Asp Ala Ser Asp Thr Asp Thr Ile Leu His Thr His
 165 170 175
 Ala Leu Leu Gly Glu Val Leu Ala Phe Arg Leu Gly Arg Glu Thr Ile
 180 185 190
 Leu Leu Arg Thr Gly Trp Thr Gln Phe Asp Glu Asp Lys Ala Ala Gln
 195 200 205
 Ile Ser Gln Val Ile Thr Cys His Val Asp Leu Ile Leu Gln Gly Leu
 210 215 220
 Thr Gln Arg Ser Gln Lys Ser
 225 230

<210> 7902

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 7902

Thr Thr Gly Asn Asp Met Asn Asp Ala Val Ile Gln Leu Asn Asn Leu
 1 5 10 15
 Val Lys Arg Phe Pro Gly Met Ala Lys Pro Ala Val Ala Pro Leu Asn
 20 25 30
 Cys Thr Ile Gln Lys Gly Tyr Val Thr Gly Leu Val Gly Pro Asp Gly
 35 40 45
 Ala Gly Lys Thr Thr Leu Met Arg Met Leu Ala Gly Leu Leu Lys Pro
 50 55 60
 Asp Glu Gly Ser Ala Ser Val Leu Gly Leu Asn Pro Ile Lys Asp Asp
 65 70 75 80
 Ala Ala Leu His Gly Ile Leu Gly Tyr Met Pro Gln Lys Phe Gly Leu
 85 90 95
 Tyr Glu Asp Leu Thr Val Met Glu Asn Leu Asn Leu Tyr Ala Asp Leu
 100 105 110
 Arg Ser Val Thr Gly Glu Thr Arg Glu Lys Thr Phe Ala Arg Leu Leu
 115 120 125
 Glu Phe Thr Ser Leu Gly Pro Phe Thr Asp Arg Leu Ala Gly Lys Leu
 130 135 140
 Ser Gly Gly Met Lys Gln Lys Leu Gly Leu Ala Cys Thr Leu Val Gly
 145 150 155 160
 Glu Pro Lys Val Leu Leu Leu Asp Glu Pro Gly Val Gly Val Asp Pro
 165 170 175
 Ile Ser Arg Arg Glu Leu Trp Gln Met Val His Glu Leu Ala Gly Asp
 180 185 190
 Gly Met Leu Ile Leu Trp Ser Thr Ser Tyr Leu Asp Glu Ala Glu Gln
 195 200 205
 Cys Arg Asp Val Leu Leu Met Asn Glu Gly Glu Leu Leu Tyr Gln Gly
 210 215 220
 Glu Pro Thr Glu Leu Thr Gln Thr Met Ala Gly Arg Ser Phe Leu Leu
 225 230 235 240
 His Ser Ala Gln Glu Ser Asn Arg Thr Leu Leu Gln Arg Val Leu Lys
 245 250 255
 Leu Pro Gln Val Ser Asp Gly Met Ile Gln Gly Arg Ser Val Arg Val
 260 265 270

Ile Leu Lys Lys Glu Ala Thr Ala Asp Asp Ile Arg Arg Ala Gln Gly
 275 280
 Met Pro Glu Ile Asp Met Thr Glu Thr Ser Pro Arg Phe Glu Asp Ala
 290 295 300
 Phe Ile Asp Leu Leu Gly Gly Ala Gly Thr Ser Glu Ser Pro Leu Gly
 305 310 315
 Ala Ile Leu His Thr Val Glu Gly Thr Pro Gly Glu Thr Val Ile Glu
 325 330 335
 Ala Lys Ser Leu Thr Lys Lys Phe Gly Asp Phe Ala Ala Thr Asp Asn
 340 345 350
 Val Asn Phe Ala Val Lys Arg Gly Glu Ile Phe Gly Leu Gly Pro
 355 360 365
 Asn Gly Ala Gly Lys Ser Thr Thr Phe Lys Met Met Cys Gly Leu Leu
 370 375 380
 Val Pro Thr Ser Gly Lys Ala Leu Val Leu Asn Met Asp Leu Lys Val
 385 390 395
 Ser Ser Gly Lys Ala Arg Gln His Leu Gly Tyr Met Ala Gln Lys Phe
 405 410 415
 Ser Leu Tyr Gly Asn Leu Thr Val Glu Gln Asn Leu Arg Phe Phe Ser
 420 425 430
 Gly Val Tyr Gly Leu Arg Gly Arg Ala Gln Asn Gln Lys Ile Gly Arg
 435 440 445
 Met Cys Asp Ala Phe Gly Leu Thr Asp Ile Ala Ser Gln Ala Thr Asp
 450 455 460
 Ala Leu Pro Leu Gly Phe Lys Gln Arg Leu Ala Leu Ala Cys Ser Leu
 465 470 475
 Met His Glu Pro Asp Ile Leu Phe Leu Asp Glu Pro Thr Ser Gly Val
 485 490 495
 Asp Pro Leu Thr Arg Arg Glu Phe Trp Leu His Ile Asn Ser Met Val
 500 505 510
 Glu Lys Gly Val Thr Val Met Val Thr Thr His Phe Met Asp Glu Ala
 515 520 525
 Glu Tyr Cys Asp Arg Ile Gly Leu Val Tyr Arg Gly Lys Leu Ile Ala
 530 535 540
 His Gly Thr Pro Asp Asp Leu Lys Ala Gln Ala Ala Asp Asp Ser Gln
 545 550 555
 Pro Asp Pro Thr Met Glu Gln Ala Phe Ile Thr Leu Ile His Asp Trp
 565 570 575
 Asp Lys Glu Asn Thr His Ala Gln 585
 580

<210> 7903

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 7903

Trp Ser Gly Arg Phe Gly Val Phe Met Ser Phe Asp Ser Leu Gly Leu
 1 5 10 15
 Asn Pro Glu Ile Leu Arg Ala Ile Ala Glu Gln Gly Tyr Val Glu Pro
 20 25 30
 Thr Pro Ile Gln Gln Gln Ala Ile Pro Ala Val Leu Gln Gly Arg Asp
 35 40 45
 Leu Met Ala Ser Ala Gln Thr Gly Thr Gly Lys Thr Ala Gly Phe Thr
 50 55 60
 Leu Pro Leu Leu Glu Leu Val Lys Asn Gln Pro His Ala Lys Gly
 65 70 75 80
 Arg Arg Pro Val Arg Ala Leu Ile Leu Thr Pro Thr Arg Glu Leu Ala
 85 90 95
 Ala Gln Ile Gly Glu Asn Val Arg Glu Tyr Ser Arg Tyr Leu Asn Ile
 100 105 110

Arg Ser Leu Val Val Phe Gly Gly Val Ser Ile Asn Pro Gln Met Met
 115 120
 Lys Leu Arg Gly Gly Val Asp Val Leu Val Ala Thr Pro Gly Arg Leu
 130 135 140
 Leu Asp Leu Glu His Gln Asn Ala Val Lys Leu Asp Asn Ile Glu Ile
 145 150 155 160
 Leu Val Leu Asp Glu Ala Asp Arg Met Leu Asp Met Gly Phe Ile His
 165 170 175
 Asp Ile Arg Arg Val Leu Ala Lys Leu Pro Thr Arg Arg Gln Asn Leu
 180 185 190
 Leu Phe Ser Ala Thr Phe Ser Asp Glu Ile Lys Ala Leu Ala Glu Lys
 195 200 205
 Leu Leu His Asn Pro Leu Glu Val Glu Val Ala Arg Arg Asn Thr Ala
 210 215 220
 Ser Glu Gln Val Thr Gln His Val His Phe Val Asp Lys Lys Arg Lys
 225 230 235 240
 Arg Glu Leu Leu Ser Gln Met Ile Gly Gln Gly Asn Trp Gln Gln Val
 245 250 255
 Leu Val Phe Thr Arg Thr Lys His Gly Ala Asn His Leu Ala Glu Gln
 260 265 270
 Leu Asn Lys Asp Gly Ile Arg Ser Ala Ala Ile His Gly Asn Lys Ser
 275 280 285
 Gln Gly Ala Arg Thr Arg Ala Leu Ala Asp Phe Lys Ser Gly Asp Ile
 290 295 300
 Arg Val Leu Val Ala Thr Asp Ile Ala Ala Arg Gly Leu Asp Ile Glu
 305 310 315 320
 Glu Leu Pro His Val Val Asn Tyr Glu Leu Pro Asn Val Pro Glu Asp
 325 330 335
 Tyr Val His Arg Ile Gly Arg Thr Gly Arg Ala Ala Ala Thr Gly Glu
 340 345 350
 Ala Leu Ser Leu Val Cys Val Asp Glu His Lys Leu Leu Arg Asp Ile
 355 360 365
 Glu Arg Leu Leu Lys Lys Glu Ile Pro Arg Ile Glu Thr Pro Gly Tyr
 370 375 380
 Glu Val Asp Pro Ser Ile Lys Ala Glu Pro Ile Gln Asn Gly Arg Gln
 385 390 395 400
 Gly Gly Gly Arg Gly Gln Gly Gly Gly Gly Arg Gly Gln Gln Pro Arg
 405 410 415
 Arg Ser Glu Gly Gly Ala Pro Lys Ser Ser Gly Lys Pro Pro Arg Arg
 420 425 430
 Asn Asn Asp Ser Lys Pro Ala Gly Gly Asn Pro Trp Arg Ser Gly Glu
 435 440 445
 Gly Lys Pro Ala Gly Glu Gly Gln Arg Arg Arg Arg Pro Arg Lys Pro
 450 455 460
 Ala Asn Pro Gln
 465

<210> 7904

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 7904

Thr Ser Pro Ile Arg Ser Gln Tyr Ser Ala Ser Ser Ile Lys Trp Val
 1 5 10 15
 Val Thr Ile Thr Val Thr Pro Phe Ser Thr Met Leu Leu Ile Cys Asn
 20 25 30
 Gln Asn Ser Arg Arg Val Arg Gly Ser Thr Pro Asp Val Gly Ser Ser
 35 40 45
 Arg Asn Arg Ile Ser Gly Ser Cys Ile Asn Glu Gln Ala Ser Ala Ser
 50 55 60

Arg Cys Leu Lys Pro Ser Gly Ser Ala Ser Val Ala Cys Glu Ala Ile
 65 70 75 80
 Ser Val Arg Pro Lys Ala Ser His Met Arg Pro Ile Phe Trp Phe Cys
 85 90 95
 Ala Arg Pro Arg Arg Pro
 100

<210> 7905

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 7905

Pro Arg Cys Trp Arg Ala Leu Pro Glu Leu Thr Leu Arg Ser Met Phe
 1 5 10 15
 Ser Thr Ser Ala Leu Pro Asp Val Gly Thr Ser Arg Pro His Ile Ile
 20 25 30
 Leu Lys Val Val Asp Phe Pro Ala Pro Phe Gly Pro Ser Arg Pro Asn
 35 40 45
 Ile Ser Pro Arg Phe Thr Ala Lys Leu Thr Leu Ser Val Ala Ala Lys
 50 55 60
 Ser Pro Asn Phe Leu Val Ser Asp Phe Ala Ser Met Thr Val Ser Pro
 65 70 75 80
 Gly Val Pro Ser Thr Val Cys Arg Met Ala Pro Ser Gly Asp Ser Glu
 85 90 95
 Val Pro Ala Pro Pro Ser Arg Ser Ile Asn Ala Ser Ser Lys Arg Gly
 100 105 110
 Glu Val Ser Val Met Ser Ile Ser Gly Ile Pro Cys Ala Arg Arg Ile
 115 120 125
 Ser Ser Ala Val Ala Ser Phe Leu Arg Ile Thr Arg Thr Glu Arg Pro
 130 135 140

145

<210> 7906

<211> 752

<212> PRT

<213> Enterobacter cloacae

<400> 7906

Ser Arg Ala Phe Leu Phe Ala Ala Ala Glu Arg Lys Cys His Asn Ser
 1 5 10 15
 Gly Cys Leu Tyr Ser Ile Ser Gly Phe Pro Met Ala Leu Thr Ala Ala
 20 25 30
 Leu Lys Ala Gln Ile Gly Ala Trp Tyr Lys Ala Leu Gln Gln Gln Ile
 35 40 45
 Pro Asp Phe Ile Pro Arg Ala Pro Gln Arg Gln Met Ile Ala Asp Val
 50 55 60
 Ala Lys Thr Leu Ala Gly Asp Asp Gly Arg His Leu Ala Ile Glu Ala
 65 70 75 80
 Pro Thr Gly Val Gly Lys Tnr Leu Ser Tyr Leu Ile Pro Gly Ile Ala
 85 90 95
 Ile Ala Arg Glu Glu Asp Lys Thr Leu Val Val Ser Thr Ala Asn Val
 100 105 110
 Ala Leu Gln Asp Gln Leu Phe Ser Lys Asp Leu Pro Leu Leu Arg Lys
 115 120 125
 Ile Ile Pro Asp Leu Arg Phe Thr Ala Ala Phe Gly Arg Gly Arg Tyr
 130 135 140
 Val Cys Pro Arg Asn Leu Ala Ala Leu Ala Ser Ser Glu Pro Ala Gln
 145 150 155 160
 Gln Asp Leu Leu Ala Phe Leu Asp Asp Glu Leu Thr Pro Asn Asn Lys

Ala	Glu	Gln	Glu	165	Gln	Cys	Ala	Lys	Leu	170	Lys	Ala	Asp	Leu	175	Asp	Ser	Tyr
Arg	Trp	Asp	Gly	180	Leu	Arg	Asp	His	Thr	Ser	Gln	Ala	Ile	Gly	190	Asp	Asp	
Leu	Trp	Arg	Arg	195	Leu	Ser	Thr	Asp	Lys	Ala	Ser	Cys	Leu	Asn	Arg	Asn		
Cys	His	Tyr	Tyr	210	Arg	Glu	Cys	Pro	Phe	Phe	Val	Ala	Arg	Arg	Glu	Ile		
Gln	Glu	Ala	Glu	225	Val	Val	Val	Ala	Asn	His	Ala	Leu	Val	Met	Ala	240		
Leu	Glu	Ser	Glu	245	Ala	Val	Leu	Pro	Glu	Pro	Lys	Asn	Leu	Leu	Leu	Val		
Leu	Asp	Glu	Gly	260	His	His	Leu	Pro	Asp	Val	Ala	Arg	Asp	Ala	Leu	Glu		
Met	Ser	Ala	Glu	275	Ile	Thr	Ala	Pro	Trp	Phe	Arg	Leu	Gln	Leu	Asp	Leu		
Phe	Cys	Lys	Leu	290	Val	Ala	Thr	Cys	Met	Glu	Gln	Phe	Arg	Pro	Lys	Thr		
Thr	Pro	Pro	Leu	305	Ala	Val	Pro	Glu	Arg	Leu	Ser	Glu	His	Cys	Glu	Glu		
Val	Tyr	Gly	Leu	320	Ile	Ala	Ser	Leu	Asn	Asn	Ile	Leu	Asn	Leu	Tyr	Leu		
Pro	Ala	Thr	Gln	340	Glu	Ala	Glu	His	Arg	Phe	Ala	Met	Gly	Glu	Leu	Pro		
Gln	Glu	Val	Met	355	Glu	Ile	Cys	Gln	Gln	Leu	Ala	Lys	His	Leu	Glu	Lys		
Leu	Arg	Gly	Leu	370	Ala	Glu	Met	Phe	Leu	Asn	Asp	Leu	Ser	Glu	Lys	Thr		
Gly	Thr	His	Asp	385	Val	Val	Arg	Leu	His	Arg	Ile	Leu	Leu	Gln	Met	Asn		
Arg	Ala	Leu	Gly	400	Met	Phe	Glu	Ala	Gln	Ser	Lys	Leu	Trp	Arg	Leu	Ala		
Ser	Met	Ala	Gln	415	Ala	Ser	Gly	Ala	Pro	Val	Thr	Lys	Trp	Ala	Thr	Arg		
Glu	Val	Arg	Asp	430	Gly	Gln	Val	His	Leu	Phe	Phe	His	Cys	Val	Gly	Ile		
Arg	Val	Ala	Asp	445	Gln	Leu	Glu	Lys	Leu	Ile	Trp	Arg	Ser	Val	Pro	His		
Val	Val	Val	Thr	460	Ser	Ala	Thr	Leu	Arg	Ser	Leu	Asn	Ser	Phe	Ser	Arg		
Leu	Gln	Glu	Met	475	Ser	Gly	Leu	Lys	Glu	Lys	Ala	Gly	Asp	Arg	Phe	Val		
Ala	Leu	Asp	Ser	490	Pro	Phe	Asn	His	Cys	Glu	Gln	Gly	Lys	Leu	Val	Ile		
Pro	Arg	Met	Asn	505	Tyr	Glu	Pro	Leu	Ile	Asp	Asn	Glu	Glu	Gln	His	Ile		
Ala	Glu	Met	Ala	520	Ala	Tyr	Phe	Arg	Glu	Gln	Val	Glu	Ser	Lys	Lys	Tyr		
Pro	Gly	Met	Leu	535	Val	Leu	Phe	Ala	Ser	Gly	Arg	Ala	Met	Gln	Arg	Phe		
Leu	Glu	His	Val	550	Thr	Asp	Leu	Arg	Leu	Leu	Leu	Val	Gln	Gly	Asp			
Gln	Pro	Arg	Tyr	565	Arg	Leu	Val	Glu	Thr	His	Arg	Lys	Phe	Ile	Asp	Asn		
Gly	Glu	Arg	Ser	580	Val	Leu	Val	Gly	Leu	Gln	Ser	Phe	Ala	Glu	Gly	Leu		
Asp	Leu	Lys	Gly	595	Asp	Tyr	Leu	Thr	Gln	Val	His	Ile	His	Lys	Ile	Ala		
Phe	Pro	Pro	Ile	610	Asp	Ser	Pro	Val	Val	Ile	Thr	Glu	Gly	Glu	Trp	Leu		

Lys Ser Leu Asn Arg Tyr Pro Phe Glu Val Gln Ser Leu Pro Ala Ala
 660 665 670
 Ser Phe Asn Leu Ile Gln Gln Val Gly Arg Leu Ile Arg Ser His Gly
 675 680 685
 Cys Trp Gly Glu Val Val Ile Tyr Asp Lys Arg Leu Leu Thr Lys Asn
 690 695 700
 Tyr Gly Gln Arg Leu Leu Asn Ala Leu Pro Ile Phe Pro Ile Glu Gln
 705 710 715 720
 Pro Glu Val Pro Glu Val Lys Lys Arg Pro Ala Lys Pro Ser Ala Gly
 725 730 735
 Arg Thr Lys Ser Ile Arg Ala Lys Arg Arg Gly Pro Thr Gly Lys
 740 745 750

<210> 7907

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 7907

Gln Asp Asp Ala Val Arg Arg Asn Val Val Asp Tyr Arg Lys Ile Ile
 1 5 10 15
 Lys Glu Val Gly Arg Gly Lys Asn His Ala Arg Asp Leu Asp Gln Glu
 20 25 30
 Thr Ala Arg Ala Leu Tyr Thr His Met Leu Asn Gly Asp Val Pro Glu
 35 40 45
 Leu Glu Met Gly Gly Ile Leu Ile Ala Leu Arg Ile Lys Gly Glu Gly
 50 55 60
 Glu Ala Glu Met Arg Gly Phe Tyr Glu Ala Met Gln Ser Gln Thr Met
 65 70 75 80
 Arg Leu Thr Pro Pro Val Thr Lys Pro Met Pro Met Pro Ile Val Ile
 85 90 95
 Pro Thr Tyr Asn Gly Ala Arg Lys Gln Ala Asn Leu Thr Pro Leu Leu
 100 105 110
 Ala Ile Leu Leu Gln Lys Leu Gly Phe Pro Val Val Val His Gly Val
 115 120 125
 Ser Glu Asp Pro Thr Arg Val Leu Thr Glu Thr Ile Leu Glu Leu Leu
 130 135 140
 Gly Ile Glu Pro Thr Leu His Ala Gly Gln Ala Gln Ala Lys Leu Glu
 145 150 155 160
 Gly Asn Gln Pro Val Tyr Ile Pro Val Arg Ala Leu Cys Pro Pro Leu
 165 170 175
 Glu Lys Gln Leu Asp Met Arg Trp Arg Met Gly Val Arg Asn Ser Ala
 180 185 190
 His Thr Leu Ala Lys Leu Ala Thr Pro Phe Ala Glu Asp Ala Ala Leu
 195 200 205
 Arg Leu Ser Ser Val Ser His Pro Glu Tyr Val Thr Arg Val Gly Gln
 210 215 220
 Phe Phe Ala Glu Ile Gly Gly Arg Ala Leu Leu Met His Gly Thr Glu
 225 230 235 240
 Gly Glu Val Tyr Ala Asn Pro Gln Arg Cys Pro Gln Leu Met Leu Ile
 245 250 255
 Glu Pro Ala Gly Thr Arg Val Val Leu Glu Arg Gly Glu Asn Cys
 260 265 270
 Asp Val Ile Leu Pro Glu Ser Lys Asp Pro Gln Val Thr Ala His Trp
 275 280 285
 Ile Val Gln Cys Leu Ala Gly Lys Val Pro Val Pro Gln Ser Ile Lys
 290 295 300
 Leu Gln Met Ala Cys Cys Leu Leu Ala Ala Gly Glu Val Ala Ser Val
 305 310 315 320
 Glu Ala Gly Leu Gln Arg Val Ala Gln Ser Phe
 325 330

<210> 7908
 <211> 342
 <212> PRT
 <213> Enterobacter cloacae

<400> 7908
 Gln Ile Ile Asp Ile Gln Val Ala Asp Phe Cys Arg Phe Phe Val Arg
 1 5 10 15
 Leu Arg Gln Leu Phe Thr Pro Ala Pro Ser Gln Gly Ile Leu Arg Gly
 20 25 30
 Cys Leu Lys Glu Asn Ala Met Thr Ser Gln Lys Pro Gly Leu His Pro
 35 40 45
 Arg Asn Arg His Arg Ser Arg Tyr Asp Met Lys Ala Leu Cys Leu Ser
 50 55 60
 Cys Pro Glu Leu Gln Asp Phe Ile Val Gln Thr Pro Ala Gly Glu Pro
 65 70 75 80
 Ser Val Asn Phe Ala Asp Pro Leu Ala Val Lys Thr Leu Asn Lys Ala
 85 90 95
 Leu Leu Ala His Phe Tyr Gly Val Thr His Trp Asp Ile Pro Asp Gly
 100 105 110
 Phe Leu Cys Pro Pro Val Pro Gly Arg Ala Asp Tyr Val His His Leu
 115 120 125
 Ala Asp Leu Leu Ala Asp Asn Gly Gly Val Val Pro Lys Gln Ala
 130 135 140
 Thr Val Leu Asp Ile Gly Thr Gly Ala Asn Leu Ile Tyr Pro Leu Ile
 145 150 155 160
 Gly Ala His Glu Tyr Gln Trp Arg Phe Thr Gly Ser Glu Ile Gly Ala
 165 170 175
 Glu Ala Phe Ala Ser Ala Gln Ala Ile Ile Asn Ala Asn Pro Gly Leu
 180 185 190
 Ser Arg Ala Val Arg Leu Arg Arg Gln Lys Asp Ala Ala Ile Phe
 195 200 205
 Asn Gly Ile Ile His Lys Asn Glu Gln Tyr Asp Ala Thr Leu Cys Asn
 210 215 220
 Pro Pro Phe His Asp Ser Ala Ala Ser Ala Arg Ala Gly Ser Glu Arg
 225 230 235 240
 Lys Arg Arg Asn Leu Gly Gln Ala Glu Asp Gly Ala Leu Asn Phe Gly
 245 250 255
 Gly Gln Gln Gln Glu Leu Trp Cys Glu Gly Gly Glu Val Ala Phe Ile
 260 265 270
 Leu Arg Met Ile Thr Glu Ser Lys Gly Phe Gly Arg Gln Val Lys Trp
 275 280 285
 Phe Thr Thr Leu Val Ser Arg Gly Asp Asn Leu Pro Pro Leu Tyr Arg
 290 295 300
 Ala Leu Thr Asp Val Gly Ala Val Lys Val Val Lys Lys Glu Met Ala
 305 310 315 320
 Gln Gly Gln Lys Gln Ser Arg Phe Ile Ala Trp Ser Phe Met Asp Asp
 325 330 335
 Asn Lys Arg Arg Lys
 340

<210> 7909
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 7909
 Gly Thr Tyr Leu Ile Ile Arg Arg Pro Gln Ile Glu Thr Pro Ser Pro
 1 5 10 15
 Gly Thr Arg Asn Thr Gly Arg Glu Leu Thr Thr Pro Thr Ile Lys Glu

20					25					30					
Leu	Ile	Met	Ala	Asp	Ser	His	Ser	Thr	Pro	Asp	Thr	Asp	Gln	Ser	Gly
35					40					45					
Thr	Glu	Arg	Ser	Leu	Ile	Val	Gly	Tyr	Arg	Pro	Asn	Val	Phe	Asp	Lys
50					55					60					
Ser	Thr	Pro	Lys	Ile	Ile	Leu	Ser	Gly	Lys	Trp	Leu	Arg	Ala	Ala	Gly
65					70					75					
Phe	Asp	Thr	Gly	Gln	Gln	Val	Thr	Val	Lys	Val	Met	Lys	Gly	Cys	Ile
85					90					95					
Val	Leu	Val	Ala	Tyr	Asn	Glu	Gln	Glu	Gln	Arg	Leu	Gln	Asp	Asp	Tyr
100					105					110					
Lys	Arg	Thr	Lys	Ala	Lys	Leu	Ile	Glu	Ile	Glu	Lys	Ala	Leu	Ala	Ala
115					120					125					
Ile	Gln	Ile	Pro	His	Ala	Gly	Lys	Arg	Leu	Ala	Lys	Ser	Asn	Thr	Asn
130					135					140					
His	Leu	Ala													
145															

<210> 7910

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 7910

[illegible]

<210> 7911

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 7911

Cys Gln Arg Gly Arg His Leu His Arg Asp Leu Phe Val Ile Phe Arg
 1 5 10 15
 Pro Gly Leu Leu Ala Gly Ser Asp Ser Ala Phe Arg Arg Arg Thr Met
 20 25 30
 Arg Val Asn Thr Trp Ile Cys Leu Ala Gly Thr Leu Cys Ser Ser Ala
 35 40 45
 Val Tyr Ala Gly Gly Val Gly Leu Gly Ala Thr Arg Leu Val Tyr Ala
 50 55 60
 Gly Ala Ala Thr Gln Thr Met Met Gln Val Arg Asn Thr His Pro Asp
 65 70 75 80
 Ala Thr Phe Leu Ile Gln Ser Trp Met Glu Asp Glu Lys Gly Ser Arg
 85 90 95
 Thr Asn Asp Phe Val Ile Thr Pro Pro Leu Tyr Val Met Lys Pro Ala
 100 105 110
 Ser Glu Ser Ala Val Lys Ile Met Phe Ser Gly Asn Ala Leu Pro Ser
 115 120 125
 Asp Arg Glu Thr Leu Tyr Trp Met Thr Val Lys Ala Ile Pro Gln Gln
 130 135 140
 Val Lys Asn Gly Ser Gly Asn Ser Leu Gln Phe Ala Ser Ala Asn Arg
 145 150 155 160
 Ile Lys Val Phe Tyr Arg Pro Glu Arg Leu Arg Glu Gly Ala Gly Glu
 165 170 175
 Ala Trp Lys Asn Leu Ala Gly Ala Tyr Arg Ala Gly Lys Val Thr Leu
 180 185 190
 Thr Asn Pro Thr Pro Tyr Tyr Leu Thr Thr Ile Asn Val Lys Ile Asp
 195 200 205
 Gly Arg Pro Val Ser Pro Val Met Val Pro Pro Lys Ala Ser Val Thr
 210 215 220
 Leu Ala Asp Thr Phe Ser His Ala Ser Ser Met Ser Tyr Gln Thr Ile
 225 230 235 240
 Asn Asp Tyr Gly Ala Trp Thr Pro Val Thr Arg Thr Ser Leu Ser Gln
 245 250 255

<210> 7912

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 7912

Gln Arg Lys Asn Asp Leu Leu Cys Ala Thr Gly Arg His Gly Cys Ala
 1 5 10 15
 Gly Gln Cys Arg Arg Arg Phe Gly Ser Gly Asp Leu Asp Asp Gly Val
 20 25 30
 Ser Ile Met Arg Leu Leu Phe Leu Ala Leu Phe Phe Met Ser Ser Gln
 35 40 45
 Ala Leu Ala Leu Ser Trp Thr Ser Asp Ile Thr Leu Ser Pro Thr Pro
 50 55 60
 Met Ser Trp Ser Gly Pro Ala Asp Ser Ile Val Pro Gly Lys Thr Ile
 65 70 75 80
 Gly Ser Glu Trp Ser Ala Ser Ala Ser Val Ser Glu Val Phe Trp Cys
 85 90 95
 Gly Leu Val Phe Thr Cys Ser Lys Gly Thr Leu Glu Pro Ser Ser Ser
 100 105 110
 Ile Thr Ala Thr Gly Ile Thr Val Ile Leu Asp Gly Ala Asn Tyr Met
 115 120 125
 Val Phe Glu Thr Gly Val Pro Gly Ile Gly Phe Ile Leu Gly Leu Lys
 130 135 140

Asp Tyr Asn Gly Thr Thr Tyr Val Pro Met Gln Thr Gly Ile Thr Gln
 145 150 155 160
 Ser Tyr Pro Ala Asp Gly Thr Asn Gly Tyr Ala Thr Ala Leu Gly Trp
 165 170 175
 Ser Ala Lys Val Thr Phe Ile Lys Thr Gly Val Pro Leu Lys Ser Gly
 180 185 190
 Val Tyr Gln Thr Pro Thr Ile Asn Ser Ala Ile Leu Thr Ala Tyr Asn
 195 200 205
 Asn Glu Val Lys Thr Ala Gln Val Ile Ile Asn Pro Thr Thr Ile Thr
 210 215 220
 Val Thr Ala Ser Gly Cys Thr Val Gly Thr Lys Ser Ala Asn Val Asp
 225 230 235 240
 Leu Gly Thr Ile Asp Val His Thr Leu Pro Ser Val Gly Ser Thr Ser
 245 250 255
 Pro Ser Gly Glu Phe Asn Val Ser Leu Thr Cys Asp Glu Asn Val Ala
 260 265 270
 Val Asn Ala Val Met Thr Asp Gln Thr Thr Pro Ser Asn Thr Ser Ser
 275 280 285
 Val Val Thr Leu Thr Gly Asp Ser Thr Ala Ser Gly Ile Gly Val Gln
 290 295 300
 Phe Phe Tyr Asn Gly Thr Gly Pro Leu Met Met Gly Pro Asp Ser Ser
 305 310 315 320
 Ala Ala Gly Thr Thr Gly Gln Phe Phe Ile Gln Thr Thr Ser Ala Ala
 325 330 335
 Gln Thr Leu Ser Leu Pro Phe Gln Ala Gln Tyr Ile Arg Thr Gly Asp
 340 345 350
 Leu Val Pro Gly Ser Ala Asn Ala Leu Ala Ser Ile Thr Phe Ser Tyr
 355 360 365
 Gln
 370

<210> 7913

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7913

Pro Thr Glu Ala Gln Ser Cys Thr Pro Phe Arg Arg His Pro His Cys
 1 5 10 15
 Arg Leu Phe Phe Ala Pro Ser Val Lys Tyr Cys Asn Ser Val Gln Val
 20 25 30
 Lys Arg Ala Gln Arg Ser Asn Pro Met Ile Lys Asn Leu His Ile Gln
 35 40 45
 Asn Tyr Arg Ser Ile Arg Asp Met Ser Leu Glu Leu Glu Gln Leu Asn
 50 55 60
 Ile Val Phe Gly Pro Asn Gly Thr Gly Lys Ser Asn Ile Tyr Lys Ala
 65 70 75 80
 Ile Tyr Leu Met His Ser Ala Ala Gln Gly Gln Phe Ser Gln Ala Leu
 85 90 95
 Ala Asn Glu Gly Gly Ile Leu Lys Val Phe Trp Ala Gly Lys Thr Arg
 100 105 110
 Ser Asp Gln Leu Arg Arg Met Asn Leu Ala Val Glu Thr Glu Thr Tyr
 115 120 125
 Glu Tyr Glu Leu Gln Val Gly Phe Val Glu Lys Leu Pro Tyr Pro Ser
 130 135 140
 Gln Phe Gln Leu Asp Pro Val Ile Lys Glu Glu Ser Ile Trp Leu Ser
 145 150 155 160
 Gly Gln His Arg Arg Pro Ser Ser Gln Leu Met Lys Arg Lys Asn Gln
 165 170 175
 Ala Val Phe Leu Asn Asn Val His His Glu Lys Val Thr His Ser Gly
 180 185 190

Thr Leu Tyr Glu Asn Glu Ser Val Phe Gly Gln Leu Gly Glu Pro His
 195 200 205
 Leu Tyr Pro Glu Val Ser Gln Met Arg Glu Ser Leu Arg Asn Trp Arg
 210 215 220
 Phe Tyr His Glu Phe Ser Val Ser Ser Gly Ser Ala Ile Arg Ala Pro
 225 230 235 240
 Gln Val Gly Phe Arg Ser Pro Val Leu Ala Ser Asp Gly Ala Asn Leu
 245 250 255
 Ala Ala Ala Phe Gln Thr Ile Val Glu Ile Gly Asp Glu Leu Leu Leu
 260 265 270
 Met Arg Ile Leu Asp Gln Ala Phe Pro Gly Cys Val Phe Tyr Ser Asp
 275 280 285
 Asn Thr Gly Gly Arg Phe Arg Met Met Met Gln Arg Glu Gly Leu Ser
 290 295 300
 Arg Pro Leu Glu Pro Ala Glu Phe Ser Asp Gly Thr Leu Arg Phe Leu
 305 310 315 320
 Cys Leu Ala Val Ala Leu Leu Ser Pro Arg Pro Pro Ala Phe Ile Ala
 325 330 335
 Leu Asn Glu Pro Glu Asn Ser Leu His Pro Gln Met Leu Pro Ala Leu
 340 345 350
 Ala Ser Leu Ile Ala Glu Ala Ser Arg Tyr Ser Gln Ile Trp Leu Thr
 355 360 365
 Ser His Ser Pro Glu Leu Ala His Leu Ile Glu Lys His Arg Ser Phe
 370 375 380
 Ser Leu Tyr Gln Leu Leu Met Ala Glu Gly Glu Thr Arg Met Glu Arg
 385 390 395 400
 Leu Gly

<210> 7914

<211> 166

<212> PRT

<213> *Enterobacter cloacae*

<400> 7914

Lys Glu Ile Glu Met Ala Ile Pro Val Tyr Leu Trp Leu Glu Asp Asp
 1 5 10 15
 Ala Gly Arg Lys Ile Asn Gly Ser Val Asp Ile Lys Asp Arg Glu Gly
 20 25 30
 Ser Ile Glu Val Ile Glu Phe Met His Ser Ile Glu Gln Ser Ile Glu
 35 40 45
 Lys Phe Ser Gly Lys Ile Thr Ser Lys Arg Ile Cys Ser Thr Tyr Ala
 50 55 60
 Phe Met Lys Glu Ile Asp Ser Ser Ser Ser Tyr Leu Tyr Lys Ala Leu
 65 70 75 80
 Ser Thr Gly Gln Thr Leu Thr Arg Ala Glu Phe Ile Phe Tyr Arg Ile
 85 90 95
 Asn Tyr Asn Gly Leu Glu Glu Ala Tyr Phe Lys Thr Thr Leu Glu Asn
 100 105 110
 Ala Arg Val Val Gln Ile Glu Pro Leu Met Phe Asp Ile Lys Leu Pro
 115 120 125
 Gln Asn Glu Arg Tyr Thr His Cys Glu Tyr Val Asp Leu Thr Tyr Glu
 130 135 140
 Lys Ile Thr Trp His Tyr Ile Asp Gly Asn Ile Ile His Ser Asp Thr
 145 150 155 160
 Trp Lys Glu Arg Ala
 165

<210> 7915

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7915

```

Pro Val Arg Pro Ala Ala Phe Arg Ala Asn Leu Val Ile Lys Lys Pro
1      5      10      15
Arg Asn Tyr Glu Met Lys Ala Arg Leu Thr Cys His Ser Leu Leu Ala
      20      25      30
Leu Ser Ile Ala Ala Leu Leu Pro Ala Gly Ser Ala Leu Ala Ala Thr
      35      40      45
Thr Ser Gly Gly Thr Val Asn Phe Ser Gly Lys Val Val Thr Ser Ala
      50      55      60
Cys Ala Ile Ser Ala Gly Ser Ala Asn Ile Asp Val Asp Met Gly Glu
65      70      75
Val Arg Thr Ala Thr Leu Ala Ala Ala Gly Ser Glu Ala Ser Thr Ala
      85      90      95
Lys Ala Phe Ser Ile Thr Leu Glu Asp Cys Glu Ile Ala Asp Thr Ser
      100      105      110
Ala Ser Thr Glu Asn Asn Pro Ile Ala Ala Thr Thr Val Ala Ile Thr
      115      120      125
Phe Thr Gly Thr Pro Asp Ser Thr Asp Val Asn Ser Leu Ala Ala Gly
130      135      140
Val Asn Gly Gly Ala Gly Ser Ala Gln His Val Ala Ile Arg Leu Tyr
145      150      155
Asp Glu Gln Gly Asn Val Val Arg Leu Gly Glu Pro Ala Ala Ala Ile
      165      170      175
Pro Leu Arg Ala Gly Ala Asn Thr Leu Asn Phe Ser Ala Lys Tyr Tyr
      180      185      190
Ser Pro Leu Gly Asn Ala Thr Ala Gly Asp Ala Ser Ala Val Ala Thr
195      200      205
Tyr Thr Val Thr Tyr Ser
210      215

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<210> 7916

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 7916

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Gln Ser Gln Arg Tyr Arg Arg Arg Arg Gln Arg Val Ser Asp Arg
1      5      10      15
Pro Val Ser Ala Gly Asn Leu Ala Cys Arg Met Gly Thr Arg Gln Arg
      20      25      30
Pro Ala Leu His Asp Pro Leu Cys Val Glu Pro Ala Glu Leu Ser Arg
      35      40      45
Pro His Arg Ala Leu Phe Pro Gly Gly His Met Ser Val Thr Val Arg
      50      55      60
Phe Leu Pro Leu Ile Leu Leu Met Val Ile Thr Val Pro Ala Arg Gly
65      70      75
Tyr Asp Val Leu Val Ser Val Thr Gly Asn Val Ile Gly Asn Thr Cys
      85      90      95
Ile Val Ser Glu Asp Ser Lys Glu Gln Asn Val Pro Leu Gly Thr Leu
      100      105      110
Gly Val Lys Gln Phe Ser Glu Ala Gly Ala Val Ser Asn Ile Lys Thr
      115      120      125
Pro Phe Thr Leu Thr Leu Glu Ala Cys Gly Pro Thr Phe Ala Gly Val
130      135      140
Lys Ile Arg Phe Ser Gly Thr Pro Asp Asp Glu Asn Pro Gln Leu Leu
145      150      155
Lys Val Ala Asp Gly Gly Ala Thr Gly Val Ala Val Gln Ile Leu Asp
      165      170      175
Lys Asp Ser Val Leu Ile Pro Leu Asp Thr Gln Thr Ala Ala Tyr Gly

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180 185 190
 Ala Ala Gly Asp Asp Ser Val Lys Met Thr Phe Tyr Ala Arg Leu Ala
 195 200 205
 Ala Thr Gly Ala Pro Val Asn Ala Gly Asp Val Ser Ala Val Ala Thr
 210 215 220
 Trp Thr Thr Glu Tyr Gln
 225 230

<210> 7917

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 7917

Asp Asn Ser Phe Ser Ser Asp Ala Asp Met Ala Tyr Ser Ile Gly Glu
 1 5 10 15
 Phe Ala Arg Leu Ser Gly Ile Thr Ala Thr Thr Leu Arg Ala Trp Gln
 20 25 30
 Arg Arg Tyr Gly Leu Leu Lys Pro Glu Arg Thr Asp Gly Gly His Arg
 35 40 45
 Leu Tyr Ser Asp Glu Asp Val Gln Gln Ala Leu Lys Ile Leu Asp Trp
 50 55 60
 Val Lys Lys Gly Val Pro Ile Gly Gln Val Lys Ser Leu Leu Glu Arg
 65 70 75 80
 Pro Ala Pro Arg Arg Ala Asn Asn Trp Gln Thr Leu Gln Gln Ala Met
 85 90 95
 Met Gln Lys Leu Gln Glu Gly Lys Ile Glu Ser Leu Arg Gln Met Ile
 100 105 110
 Tyr Asp Ala Gly Arg Glu Tyr Pro Arg Pro Glu Leu Val Thr Asn Val
 115 120 125
 Leu Arg Pro Leu Arg Ser Gln Ile Ser Ala Asn Val Ala Ala Met
 130 135 140
 Thr Leu Arg Glu Ile Leu Asp Gly Ile Leu Ile Ala Tyr Thr Ser Phe
 145 150 155 160
 Cys Leu Glu Gly Asp Lys Lys Ala Pro Gly Asp Asn Val Leu Ile Ser
 165 170 175
 Gly Trp Tyr Leu Asn Asp Pro Cys Glu Ile Trp Leu Glu Ala Leu Thr
 180 185 190
 Arg Thr Gly Gln Gly His Arg Ile Asp Ile Leu Pro Val Pro Pro Ala
 195 200 205
 Ala Leu Ala Pro Glu Ile Phe Pro Asp Arg Lys Trp Leu Leu Val Thr
 210 215 220
 Ser Gly Lys Leu Thr Ala Ala Arg Lys Lys Gln Val Ala Gln Trp Gln
 225 230 235 240
 Gln Gln Val Ser Leu Glu Val Ile Ile Leu
 245 250

<210> 7918

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 7918

Ile Phe Phe Arg Ala Ala Ser Ala Asn Val Phe Leu Ser Pro Thr Thr
 1 5 10 15
 Gln Gln Glu Asn Thr Met Lys Lys Thr Leu Pro Leu Met Met Leu Ala
 20 25 30
 Ala Met Ala Phe Ala Pro Ala Ala Phe Ser Ala Pro Ala Gly Thr Leu
 35 40 45
 Ser Val His Val Leu Asp Gln Gln Thr Gly Met Pro Pro Ala Asp Val
 50 55 60

Thr Val Thr Leu Glu Lys Gln Glu Gln Asp Lys Trp Thr Pro Ile Ala
 65 70 75 80
 Ser Gly Lys Thr Asp His Asp Gly Arg Ile Lys Ser Leu Tyr Pro Gln
 85 90 95
 Asp Gln Asp Met Ala Pro Gly Val Tyr Lys Val Thr Phe Lys Thr Ala
 100 105 110
 Asp Tyr Phe His Gly Lys Lys Leu Asp Ser Phe Phe Pro Glu Val Pro
 115 120 125
 Val Leu Phe Thr Val Thr Arg Thr Asn Glu Lys Leu His Ile Pro Leu
 130 135 140
 Leu Leu Ser Gln Tyr Gly Tyr Ser Thr Tyr Lys Gly Ser
 145 150 155

<210> 7919

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 7919

Asp Arg Glu Val His Thr Met Thr Thr Lys Pro Val Leu Gly Ile Ser
 1 5 10 15
 Gly Cys Leu Thr Gly Ser Ala Val Arg Phe Asp Gly Gly His Lys Arg
 20 25 30
 Met Gly Phe Val Met Asp Glu Leu Ala Gln Trp Val Ala Phe Arg Pro
 35 40 45
 Val Cys Pro Glu Met Ser Ile Gly Leu Pro Thr Pro Arg Pro Ala Leu
 50 55 60
 Arg Leu Val Met Thr Thr Gly Gly Glu Thr Glu Met Arg Phe Ser Lys
 65 70 75 80
 Ala Pro His Asp Asp Val Thr Gln Lys Met Ala Ala Phe Thr Ala Asp
 85 90 95
 Tyr Leu Pro Lys Ile Gly Asp Leu Ser Gly Phe Ile Val Cys Ala Lys
 100 105 110
 Ser Pro Ser Cys Gly Met Glu Arg Val Arg Leu Tyr Asp Glu Asn Gly
 115 120 125
 Asn Arg Gly Arg Lys Glu Gly Val Gly Leu Phe Thr Ala Ala Leu Leu
 130 135 140
 Glu Thr Phe Pro Trp Leu Pro Val Glu Glu Asp Gly Arg Leu His Asp
 145 150 155 160
 Pro Val Leu Arg Glu Asn Phe Val Glu Arg Val Phe Ala Leu His Glu
 165 170 175
 Leu Asn Val Met Arg Lys Asn Gly Leu Thr Arg Arg Ala Leu Leu Asp
 180 185 190
 Phe His Ser Arg Tyr Lys Leu Gln Leu Leu Ala His His Gln Ala Gly
 195 200 205
 Tyr Arg Glu Ile Gly Pro Phe Val Ala Ser Leu His Glu Trp Asp Asp
 210 215 220
 Leu Asp Ala Phe Phe Val Ala Tyr Arg Asp Lys Leu Met Thr Ile Leu
 225 230 235 240
 Lys Lys Pro Ala Ser Arg Lys Asn His Thr Asn Val Leu Met His Ile
 245 250 255
 Gln Gly Tyr Phe Arg Asn Gln Leu Asn Ser Arg Gln Arg Gly Glu Leu
 260 265 270
 Arg Asp Val Ile Leu His Tyr Arg Asp Gly Leu Leu Pro Ile Leu Ala
 275 280 285
 Pro Leu Thr Leu Leu Lys His Tyr Leu Ala Glu Tyr Pro Asp Arg Tyr
 290 295 300
 Leu Met Thr Gln Asn Tyr Phe Asp Pro Tyr Pro Asp Leu Gly Leu
 305 310 315 320
 Arg Leu Ala Val Thr
 325

<210> 7920

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 7920

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Pro Pro Pro Val Pro Ser Ala Pro Val Ala Pro Ile Ser Thr Ser Thr
1      5      10      15
Trp Gly Lys Cys Val Pro Pro Arg Trp Leu Pro Gln Ala Val Lys Pro
      20      25      30
Val Pro Gln Lys Pro Ser Pro Ser Arg Trp Arg Ile Ala Lys Ser Pro
      35      40      45
Ile Pro Pro Arg Pro Arg Lys Ile Thr Pro Ser Pro Gln Arg Pro Trp
      50      55      60
Leu Ser Pro Ser Pro Val Arg Arg Thr Val Pro Met Ser Ile Ala Trp
      65      70      75      80
Pro Arg Glu

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<210> 7921

<211> 866

<212> PRT

<213> Enterobacter cloacae

<400> 7921

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Arg Leu Trp Gly Leu Asp Ala Arg His Pro His Val Ile Val Pro Ile
1      5      10      15
Ile Lys Thr Val Arg Arg Asp His Met Lys Ile Lys Ile Leu Cys Ala
      20      25      30
Thr Ala Ile Ala Leu Val Ile Arg Gln Ala Val Ala Ala Glu Ser Glu
      35      40      45
Leu Gln Phe Asn Pro Ala Phe Leu Asn Gly Glu Arg Ala Asn Ser Ala
      50      55      60
Asp Leu Ala Trp Val Asn Ala Gly Ser Ala Leu Pro Pro Gly Glu Tyr
      65      70      75      80
Asn Leu Asn Val Tyr Ile Asn Thr Gln Phe Ala Phe Thr Gly Asn Val
      85      90      95
Thr Phe Arg Val Ala Glu Ser Thr Ala Gly Glu Ala Leu Pro Cys Leu
      100      105      110
Thr Pro Ala Gln Phe Ala Ala Leu Gly Ile Asp Ser Arg Gln Ala Lys
      115      120      125
Gly Gly Glu Leu Pro Pro Ala Gln Arg Cys Ile Phe Leu Thr Gln Ser
      130      135      140
Phe Ala Asp Thr Arg Phe Asp Phe Asp Gln Arg Thr Leu Thr Leu Asn
      145      150      155      160
Phe Thr Val Pro Gln Ser Ala Met Arg Ala Leu Pro Arg Gly Tyr Val
      165      170      175
Ser Pro Glu Ser Trp Glu Ser Gly Ile Pro Ala Ala Trp Leu Asn Tyr
      180      185      190
Val Val Asn Gly Ala Asn Asn Asp Tyr Arg Gly Glu Thr Arg Thr Arg
      195      200      205
Glu Gln Gln Leu Phe Val Ser Leu Asn Ser Gly Ala Asn Leu Gly Ala
      210      215      220
Trp Arg Leu Arg Asp Phe Thr Thr Trp Thr Lys Glu Ser Asn Glu Leu
      225      230      235      240
Thr His Val Gln Thr Trp Leu Gln Arg Asp Ile Arg Ala Leu Arg Ala
      245      250      255
Gln Val Tyr Ala Gly Glu Thr Phe Thr Ser Ser Gln Val Phe Asp Ala
      260      265      270
Val Gly Leu Arg Gly Ile Ala Leu Lys Thr Asp Asp Asn Met Leu Pro

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275	280	285
Ala Ser Leu Ser Gly Tyr	Ala Pro Glu Val Arg Gly	Ile Ala Arg Ser
290	295	300
Asn Ala Thr Val Thr Val	Arg Gln Asn Gly Asn Val	Ile Tyr Gln Thr
305	310	315
Ser Val Pro Pro Gly Ala	Phe Val Leu Lys Asp Leu	Tyr Pro Thr Ser
325	330	335
Ser Gly Gly Asp Leu Ala	Val Thr Ile Gln Glu Ser	Asp Gly Ser Gln
340	345	350
Thr Gln Tyr Thr Leu Pro	Phe Ala Ser Val Pro Asn	Leu Val Arg Asn
355	360	365
Gly Gln Val Lys Tyr Ala	Leu Gly Ala Gly Lys Tyr	Arg Pro Ala Gly
370	375	380
Asn Gln Ile Ser Pro Ser	Phe Ala Gln Gly Glu Leu	Phe Leu Gly Trp
385	390	395
Arg Tyr Gly Leu Thr Phe	Tyr Gly Gly Ala Gln	Phe Ser Asp Arg Tyr
405	410	415
Thr Gly Leu Ala Phe Gly	Ile Gly Gln Asn Leu	Gly Arg Phe Gly Ala
420	425	430
Tyr Ser Leu Asp Leu Thr	His Ala Arg Ser Gln	Leu Ala Asp Asn Gln
435	440	445
His Tyr Thr Gly Asp Ser	Val Arg Leu Arg Tyr	Ser Lys Leu Leu Asn
450	455	460
Asp Ile Gly Thr Arg Val	Asn Phe Phe Ser Leu	Arg Tyr Ser Thr Ala
465	470	475
Gly Phe Tyr Thr Leu Ser	Asp Thr Thr Tyr Lys	Gly Met Ala Gly Gly
485	490	495
Ala Pro Glu Gln Thr Val	Glu Asp Asp Gly Thr	Val Thr Thr His Tyr
500	505	510
Asp Thr Val Tyr Asn Leu	His Met Ser Arg Lys	Ala Lys Asn Gln Leu
515	520	525
Leu Leu Ser Gln Pro Met	Gly Glu Tyr Gly Ala	Leu Ser Leu Ser Trp
530	535	540
Asp Gln Gln Thr Tyr Trp	Asn Thr Ser Lys Thr	Thr Gln Ser Leu Gln
545	550	555
Phe Ala Trp Asn Ala Thr	Phe Arg Asn Leu Ser	Leu Gly Ile Ser Ala
565	570	575
Gln Arg Ser Ser Gly Leu	Tyr Asp Asn Lys Lys	Asp Asn Ile Leu Ala
580	585	590
Leu Ser Leu Ser Val Pro	Leu Gly Asn Pro Ala	Leu Ser Thr Arg Leu
595	600	605
Arg Phe Thr Ala Thr His	Ala Asp Pro Ala Gly	Thr Thr Ala Ser Thr
610	615	620
Gly Val Ser Gly Tyr Leu	Pro Gly Gln Glu Asn	Leu Phe Tyr Ser Val
625	630	635
Asn Gln Arg Tyr Ser Ala	Gln Gln His Tyr Gly	Gly Asp Ala Ala Leu
645	650	655
Gln Tyr Glu Gly Ala Trp	Gly Asp Tyr Asn Leu	Gly Tyr Ser Tyr Ala
660	665	670
Gly Asp Ser Arg Asn Leu	Ser Tyr Gly Met Ser	Gly Gly Ala Val Leu
675	680	685
His Glu Asp Gly Leu Thr	Leu Ser Gln Pro Leu	Gly Asn Thr Asn Ile
690	695	700
Leu Val Lys Ala Pro Gly	Ala Ser His Val Ala	Val Leu Asn His Lys
705	710	715
Gly Ile Lys Thr Asp Ser	Arg Gly Tyr Ala Val	Ile Pro Tyr Ala Thr
725	730	735
Pro Tyr Arg Val Asn Gln	Val Ala Leu Asp Val	Thr Thr Val Gly Asn
740	745	750
Asp Val Glu Leu Glu Asn	Ala Ile Ala Asn Lys	Ile Pro Thr Asp Gly
755	760	765

Ala Leu Val Arg Ala Thr Leu Thr Thr Arg Gln Gly Ala Lys Ala Met
 770 775 780
 Phe Ile Val Arg His Ala Lys Asp Val Leu Pro Phe Gly Thr Leu Val
 785 790 795 800
 Ser Ser Glu Asp Asp Lys Ala Ser Gly Ile Val Gly Asp Gly Gly Ser
 805 810 815
 Val Tyr Leu Thr Gly Leu Ser Ala Gln Gly Thr Leu His Ala Val Trp
 820 825 830
 Gly Arg Asp Ser Ala Gln Arg Cys Thr Ile Arg Tyr Ala Leu Asn Pro
 835 840 845
 Gln Asn Tyr His Ala Arg Thr Gly Leu Tyr Ser Gln Glu Ala Ile Cys
 850 855 860
 Gln
 865

<210> 7922

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 7922

Pro Met Asn Ile Thr Gln Ile Arg Asn Ala Thr Gln Leu Ile Thr Tyr
 1 5 10 15
 Ala Gly Lys Arg Phe Leu Ile Asp Pro Met Leu Ala Pro Lys Gly Thr
 20 25 30
 Tyr Pro Gly Phe Pro Gly Thr Ala Arg Ala Asp Ile Arg Asn Pro Met
 35 40 45
 Val Glu Leu Pro Val Asp Val Gln Thr Leu Leu Asp Ala Asp Ala Val
 50 55 60
 Ile Val Thr His Thr His Ala Asp His Trp Asp Gln Tyr Ala Val Glu
 65 70 75 80
 Leu Ile Ala Lys Gly Lys Pro Ile Tyr Val Gln Asn Asp Ser Asp Ala
 85 90 95
 Ala Leu Leu Arg Ser Gln Gly Phe Thr Asn Leu Thr Ile Met Thr Gly
 100 105 110
 Glu Thr Thr Tyr Gly Asp Ile Arg Ile Val Lys Thr His Gly Gly Gln
 115 120 125
 His Gly Thr Asp Arg Ala Tyr Ala Val Pro Glu Leu Ala Glu Phe Leu
 130 135 140
 Gly Glu Ala Cys Gly Val Phe Arg His Pro Asp Glu Lys Thr Leu
 145 150 155 160
 Tyr Ile Ala Gly Asp Thr Ile Trp Arg Asp Ala Val Ala Ala Asp Leu
 165 170 175
 Gln Lys His Gln Pro Asp Ile Val Val Leu Asn Ala Gly Tyr Ala His
 180 185 190
 Val Ile Gly Phe Gly Pro Ile Ile Met Gly Glu Glu Asp Leu Leu Asn
 195 200 205
 Val His Phe Leu Leu Pro Gln Ala Lys Ile Val Ala Thr His Met Glu
 210 215 220
 Ala Ile Asn His Cys Leu Leu Thr Arg Arg Ala Leu Arg Glu Tyr Val
 225 230 235 240
 Asp Ala Asn Glu Ile Ser Asp Ala Val Ser Ile Pro Gln Asp Gly Glu
 245 250 255
 Thr Val Ile Phe
 260

<210> 7923

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 7923

Lys Arg Arg Phe Gly Tyr Gly Met Gly Asp Ala Ala Ser His Ile Ile
 1 5 10 15
 Phe Asp Asn Val Met Leu Tyr Met Met Phe Phe Tyr Thr Asp Ile Phe
 20 25 30
 Gly Ile Pro Ala Gly Phe Val Gly Thr Met Phe Leu Leu Ala Arg Ala
 35 40 45
 Leu Asp Ala Ile Ser Asp Pro Cys Met Gly Leu Ile Ala Asp Arg Thr
 50 55 60
 Arg Ser Arg Trp Gly Gln Val Pro Ser Met Asp Phe Val Trp Arg Tyr
 65 70 75 80
 Pro Val Arg His Arg Leu Arg Ala Gly Val Tyr His Ala Gly Pro Glu
 85 90 95
 Pro Gln Arg Gln Asn Gly Leu Arg Arg Arg Tyr Leu His Pro Ala Asp
 100 105 110
 Pro Ala Leu Tyr Arg Gly Gln His Pro Val Leu Arg Ala Gly Arg Arg
 115 120 125
 Asp His Gln Arg Pro Asp Ala Ala Tyr Leu Pro Pro Val Leu Ala Leu
 130 135 140
 Cys Ala Gly Asp Gly Gly Arg Tyr Ala Leu Tyr Gly Ala Asp Asp Ala
 145 150 155 160
 Ala Gly Glu Pro Asp Trp Arg
 165

<210> 7924

<211> 419

<212> PRT

<213> Enterobacter cloacae

<400> 7924

His Ile Val Lys Leu Lys Asn Arg Ser Gly Gln Arg Arg Ala Leu Ile
 1 5 10 15
 Pro His His Phe Ser Lys Ser Tyr His Ile Asn Ala Pro Arg Leu Lys
 20 25 30
 Ala Val Leu Thr Leu Phe Ile Ala Phe Phe Leu Cys Leu Leu Val Phe
 35 40 45
 Ala Ile Val Phe Asn Phe Ser Glu Thr Thr Leu Ala Arg Gly Val Leu
 50 55 60
 Ile Pro Ala Gln Gly Asp Val Glu Val Arg Ala Arg Glu Ser Gly Thr
 65 70 75 80
 Leu Val Asp Phe Ala Val Arg Pro Gly Gln Tyr Val Lys Glu Asn Asp
 85 90 95
 Pro Leu Phe Thr Val Ser Gln Asp Tyr Gly Gly Lys Gln Gly Ser Val
 100 105 110
 Val Gln Phe Asp Arg Gln Gln Met Glu Ala Glu Lys Lys Arg Ser Glu
 115 120 125
 Gln Arg Ile Gln Ala Ile Glu Asp Ser Ile Ala Ser Tyr Arg Lys Asn
 130 135 140
 Leu Ala Gln Gln Leu Ala Leu Thr Asp Lys Gln Ile Ala Val Ser Arg
 145 150 155 160
 Asp Lys Val Lys Lys Leu Arg Ala Leu Leu Lys Asn Ser Thr Asp Thr
 165 170 175
 Tyr Glu Ala Trp Lys Ser Val Ser Gly Lys Gly Tyr Val Ser Arg Val
 180 185 190
 Asp Leu Asp Lys Ser His Asn Asp Val Leu Asn Ala Gln Leu Asn Leu
 195 200 205
 Thr Leu Glu Glu Ser Thr Ile Leu Glu Leu Glu Ala Arg Lys Thr Ser
 210 215 220
 Leu Thr Asp Ser Thr Gln Ser Gln Ile Asp Ser Leu Ser Glu Glu Gln
 225 230 235 240
 Leu Tyr Val Lys Asn Arg Ile Ser Glu Ile Asp Arg Asn Leu Ser Ser

				245						250						255
Arg	Gly	Ser	Ser	Thr	Met	Ala	Met	Leu	Ala	Pro	Ser	Asp	Gly	Tyr	Val	
			260						265					270		
Val	Ala	Ile	Asn	Phe	Pro	Pro	Gly	Arg	Ala	Ile	Thr	Gln	Asn	Ser	Glu	
		275					280					285				
Val	Val	Val	Val	Ile	Arg	Lys	Asn	Thr	Ala	Ala	Thr	Met	Glu	Gly	Tyr	
	290					295					300					
Leu	Tyr	Val	Pro	Ala	Thr	Gly	Val	Gly	Arg	Val	Ala	Lys	Gly	Asp	Lys	
305					310					315					320	
Val	Lys	Leu	Arg	Phe	Asp	Ser	Trp	Pro	Val	Asp	Lys	Tyr	Gly	Ser	Val	
			325						330					335		
Glu	Ala	Thr	Leu	Ser	Asp	Phe	Tyr	Glu	Val	Asn	Ile	Asp	Ala	His	Ser	
		340						345					350			
Ala	Leu	Ile	Pro	Leu	Gln	Glu	Gly	Gln	Asn	Tyr	Tyr	Leu	Ala	Lys	Val	
		355					360					365				
Arg	Val	Pro	Ser	Trp	Phe	Thr	Asp	Pro	Asp	Lys	Lys	Lys	Arg	Met	Leu	
	370					375					380					
Met	Gly	Gly	Met	Thr	Val	Asn	Ala	Asp	Ile	Val	Ile	Asp	Arg	Lys	Pro	
385					390					395					400	
Leu	Ile	Asn	Leu	Leu	Ile	Ala	Pro	Leu	Glu	Arg	Val	Arg	Lys	Arg	Phe	
			405						410					415		
Ile	Asp															

<210> 7925

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 7925

Arg	Gly	Lys	Glu	Arg	Gln	Met	Pro	Leu	Val	Asn	Val	Ala	Ile	Val	Ala	
1			5					10					15			
Val	Asp	Gly	Phe	Ser	Pro	Phe	His	Tyr	Ser	Val	Pro	Cys	Ile	Leu	Phe	
		20					25					30				
Gly	Asp	Thr	Val	Ser	Gly	Glu	Lys	Arg	Phe	Asn	Val	Thr	Ile	Cys	Ala	
		35				40						45				
Glu	Lys	Pro	Gly	Phe	Leu	Thr	Ser	Lys	Asp	Gly	Phe	Ala	Leu	His	Ala	
	50				55						60					
Thr	Gln	Asp	Phe	Ser	Ala	Ile	Ala	Ser	Ala	Glu	Ile	Val	Val	Val	Pro	
65			70						75					80		
Tyr	Trp	Gln	His	Val	Leu	Glu	Arg	Pro	Pro	Gln	Thr	Leu	Leu	Asp	Ser	
			85						90					95		
Leu	Val	Gln	Ala	Arg	Asp	Asn	Gly	Ala	Glu	Ile	Val	Gly	Leu	Cys	Leu	
		100					105						110			
Gly	Ser	Phe	Val	Leu	Gly	Tyr	Ala	Gly	Ile	Leu	Ser	Gly	Lys	Arg	Ala	
		115				120						125				
Ala	Thr	His	Trp	Glu	Phe	Glu	His	Gln	Phe	Gln	Thr	Leu	Phe	Pro	Asp	
	130				135					140						
Val	Arg	Leu	Asp	Ile	Asn	Ala	Leu	Tyr	Val	Asp	Asp	Gly	Asn	Val	Ile	
145				150					155					160		
Thr	Ser	Ala	Gly	Thr	Ala	Ala	Ala	Leu	Asp	Cys	Cys	Leu	Tyr	Ile	Ile	
			165					170					175			
Arg	Gln	Arg	Phe	Gly	Ser	Val	Val	Ala	Asn	Gln	Ile	Ala	Arg	Arg	Met	
		180				185						190				
Ile	Val	Pro	Pro	His	Arg	Glu	Gly	Gln	Ala	Gln	Phe	Ile	Ala	Gln		
		195				200					205					
Pro	Val	Pro	Lys	Asp	Thr	Arg	Asp	Gly	Arg	Ile	Asn	Cys	Leu	Ile	Asp	
	210				215						220					
Tyr	Leu	Gln	Gln	His	Ile	Ser	Glu	Pro	His	Asn	Leu	Asp	Ser	Leu	Ala	
225				230						235				240		
Asp	Val	Val	Ser	Met	Ser	Arg	Arg	Thr	Leu	Thr	Arg	His	Phe	Ile	Lys	

Ala	Thr	Gly	Met	245	Ala	Asp	Trp	Leu	Thr	Ala	Glu	Arg	255	Leu	Arg
			260	Ser	Val		265					270			
Arg	Ser	Gln	Ile	Leu	Leu	Glu	Ser	Gly	Ser	Leu	Pro	Ile	285	Glu	Ser
		275					280								Val
Ala	Glu	Gln	Val	Gly	Phe	Leu	Ser	Ala	Val	Thr	Tyr	Arg	300	Gln	Gln
		290					295								Phe
Lys	Ala	Arg	Phe	Gly	Val	Ser	Pro	Ala	Glu	Trp	Arg	Lys	315	Thr	Phe
		305					310								320
Val	Lys	Pro	Tyr	Ala	Ala	Lys	Asn	Asn	Ala	Gly	Ala	Met		Glu	
				325					330						335

<210> 7926

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 7926

Met	Ser	Ser	His	Thr	Cys	Gly	Asp	Pro	Gly	Ser	Thr	Ser	Val	Asn	Arg
1			5						10					15	
Arg	Ile	His	Thr	Ala	Pro	Met	His	Lys	His	Tyr	Ile	Ile	Asn	Asn	Ile
			20					25					30		
Val	Glu	Phe	His	Pro	Ala	Ala	Ser	Thr	Leu	Arg	Asp	Ile	Asn	Asn	Pro
		35					40					45			
Asp	Arg	Val	Val	Val	Leu	Asn	Ser	Pro	Ala	Gly	Arg	Cys	Leu	Leu	Leu
		50				55					60				
Leu	Ile	Asp	Arg	Ala	Gly	Ser	Ile	Val	Thr	Gln	Gln	Glu	Phe	Leu	Asp
		65				70				75				80	
Ile	Val	Trp	Gln	Ser	His	Gly	Met	Leu	Val	Ser	Ser	Asn	Thr	Tyr	Tyr
			85					90						95	
Gln	Asn	Ile	Ser	Ile	Leu	Arg	Lys	Gly	Leu	Lys	Lys	Ile	Gly	Phe	Glu
			100					105					110		
Thr	Asp	Pro	Ile	Val	Thr	Ile	Pro	Arg	Ile	Gly	Leu	Thr	Leu	Ala	Ser
		115					120					125			
Asp	Thr	Gln	Ile	Thr	Val	Arg	Glu	Ser	Ser	Pro	Val	Ala	Pro	Gln	Pro
		130					135				140				
Ala	Glu	Glu	Gln	Cys	Val	Glu	Ala	Pro	Ala	Ile	Glu	Glu	Val	Ser	Ala
		145				150				155					160
Ser	Ser	Ala	Pro	Ala	Thr	Pro	Val	Ala	Arg	Lys	Pro	Thr	Arg	Trp	Leu
			165					170						175	
Ala	Val	Val	Met	Gly	Leu	Leu	Ile	Val	Leu	Ala	Gly	Ala	Gly	Val	Thr
		180						185					190		
Gly	Tyr	Met	Asn	Ala	Thr	Glu	Asn	Arg	Phe	Val	Glu	Asp	Tyr	Arg	Phe
		195					200					205			
Ala	Ala	Ser	Val	Gly	Ala	Cys	Arg	Val	Tyr	Leu	Ala	Asn	Asp	Ile	Gln
		210					215				220				
Thr	His	Ala	Glu	Arg	Ala	Ser	Ala	Leu	Thr	Tyr	Val	Glu	Gln	Phe	Lys
		225				230				235					240
Ala	Glu	Cys	Ala	Gln	Tyr	Pro	Trp	Val	Tyr	Ile	Ser	Trp	Tyr	Ala	Leu
			245					250						255	
Leu	Pro	Arg	Ala	Ser	Val	Ile	Arg	Cys	Asp	Arg	Pro	Met	Lys	Glu	Pro
			260					265					270		
Asn	Arg	Cys	Ile	Ser	Asp	Tyr	Phe	Leu	Lys	Asp	Ser				
		275					280								285

<210> 7927

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 7927

Met Lys Ser Val Phe Asp Ser Ser Asp Gly Lys Ser Val Pro Glu
 1 5 10 15
 Lys Cys Leu His Ile Gly Leu Ile Leu Trp Pro Arg Tyr Ser Leu Leu
 20 25 30
 Ala Val Ser Gly Leu Leu Glu Ala Leu Arg Tyr Ala Ala Lys Ala Gln
 35 40 45
 Asp Lys Leu Ala Phe Lys Ile Ser Leu Ile Ser Glu Phe Pro Asp Ile
 50 55 60
 Pro Ile Ile Ser Asn Ala Gly Ile Ile Met Arg Pro Asp Ser Thr His
 65 70 75 80
 Ala Pro Pro Asp Ser Phe Asn Tyr Leu Ala Val Ile Gly Gly Glu Leu
 85 90 95
 Gln Tyr Leu Asp Leu Gly Tyr Gln Gly Asp Lys Ala Tyr Leu Ala His
 100 105 110
 Ala His His Ala Gly Val Pro Leu Ile Gly Ile Gly Thr Gly Ser Phe
 115 120 125
 Val Leu Ala Gln Glu Gly Leu Leu Asn Glu Arg Arg Ala Ser Ile His
 130 135 140
 Pro Phe His Leu Asp Ala Phe Arg Gln Ala Phe Pro Leu Val Tyr Ala
 145 150 155 160
 Glu Gln Gly Tyr Asp Phe Ile Asp Asp Gly Asp Val Leu Thr Cys Pro
 165 170 175
 Gly Gly Ile Ser Thr Leu Thr Leu Ala Thr Glu Leu Ile Arg Ala His
 180 185 190
 Ala Gly Asp Asp Ile Ala Ser Thr Thr Cys Gln Arg Leu Ser Leu Val
 195 200 205
 Pro His Glu Ile Ala Thr Pro Arg Pro Ala Asn Leu Ala Leu Ile Pro
 210 215 220
 Asp Ser Arg Leu Arg Arg Ala Val Met Leu Ile Glu Gln Phe Leu Thr
 225 230 235 240
 Arg Pro Leu Thr Thr Ala Gly Leu Ala Arg Glu Val Ala Leu Ser Glu
 245 250 255
 Arg Gln Leu Asn Arg Leu Phe His Ala Glu Phe Gly Lys Thr Ala Arg
 260 265 270
 Glu Phe Ile Arg Ser Ala Arg Leu Arg Tyr Ala Cys Trp Leu Leu Lys
 275 280 285
 Asn Ser Gln Gln Ser Val Thr Asp Ile Ala Gln Arg Met Gly Phe Ser
 290 295 300
 Asp Cys Ala His Phe Ile Arg His Phe Gln Thr Glu Tyr Gly Cys Thr
 305 310 315 320
 Pro Gly Val Trp Arg Thr Ser Gln Ser
 325 330

<210> 7928

<211> 164

<212> PRT

<213> *Enterobacter cloacae*

<400> 7928

Ile Ser Leu His Cys Cys Pro Glu Thr Leu Leu Asn Arg Asn Ile Thr
 1 5 10 15
 Met Lys Ile Glu Ala Ala His Pro Ser Gln Phe Glu Arg Leu Val Ala
 20 25 30
 Val Trp Glu Ser Ser Val Arg Ala Thr His Arg Phe Leu Gln Glu Ser
 35 40 45
 Asp Ile Ala Ala Leu Arg Pro Leu Leu Asn Ala Tyr Leu Pro Asn
 50 55 60
 Leu Arg Val Val Ile Ala Arg Asp Asp Val Gly Ile Ile His Gly Phe
 65 70 75 80
 Leu Gly Val Asp Lys Asn Arg Ile Glu Met Leu Phe Val Asp Asp Ala
 85 90 95

Ser Arg Gly Lys Gly Ile Gly Lys Met Leu Leu Gln Tyr Ala Ile Ala
 100 105 110
 Glu Phe Gly Val Asn Glu Val Asp Val Asn Glu Gln Asn Pro Gln Gly
 115 120 125
 Val Ala Phe Tyr Arg His Met Gly Phe Glu Gln Val Gly Arg Ser Glu
 130 135 140
 Leu Asp Gly Gln Gly Asn Pro Phe Pro Leu Leu His Met Arg Leu Ser
 145 150 155 160
 Gly Gln Ala

<210> 7929

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 7929

Leu Pro Thr Ala Pro Ala Ala Ala Gly Gly Lys Phe Arg Pro Trp Ile
 1 5 10 15
 Leu Phe Gly Ala Ile Pro Phe Gly Ile Val Cys Val Leu Ala Tyr Thr
 20 25 30
 Thr Pro Asp Leu Ser Leu Asn Gly Lys Met Val Tyr Ala Ala Val Thr
 35 40 45
 Tyr Thr Leu Leu Thr Leu Leu Tyr Thr Val Val Asn Ile Pro Tyr Cys
 50 55 60
 Ala Leu Gly Gly Val Ile Thr Asn Asp Pro Thr Gln Arg Ile Ser Leu
 65 70 75 80
 Gln Ser Trp Arg Phe Val Leu Ala Thr Ala Gly Gly Met Leu Ser Thr
 85 90 95
 Val Leu Met Met Pro Leu Val Asn Leu Ile Gly Gly Asp Asp Lys Ala
 100 105 110
 Phe Gly Phe Gln Gly Gly Ile Ala Val Leu Ser Val Val Ala Phe Leu
 115 120 125
 Met Leu Ala Phe Cys Phe Phe Thr Thr Lys Glu Arg Ile Gln Val Pro
 130 135 140
 Pro Ser Thr Thr Ser Met Arg Glu Asp Met Arg Asp Ile Trp Gln Asn
 145 150 155 160
 Asp Gln Trp Arg Ile Val Gly Val Leu Thr Ile Leu Asn Ile Leu Ala
 165 170 175
 Val Cys Val Arg Gly Gly Ala Met Met Tyr Tyr Cys Thr Trp Ile Met
 180 185 190
 Gly Ser Pro Glu Val Phe Val Ala Phe Leu Thr Thr Tyr Cys Val Gly
 195 200 205
 Asn Leu Ile Gly Ser Ala Leu Ala Lys Pro Leu Thr Asp Trp Lys Cys
 210 215 220
 Lys Val Ser Ile Phe Trp Trp Thr Asn Ala Ala Leu Ala Val Val Ser
 225 230 235 240
 Val Ala Met Phe Phe Val Pro Met His Ala Thr Val Leu Met Phe Gly
 245 250 255
 Phe Ile Phe Arg Tyr Arg Arg Ala Ala Pro Ala Gly Asp Ala Asp Ser
 260 265 270
 Val Gly Asn Asp Val Arg Tyr Arg Arg Ile Arg Arg Met Asp Gln Arg
 275 280 285
 Gln Thr Pro Asp Arg His Gln Leu Cys Gly His Ala Val Arg Ala Glu
 290 295 300
 Ala Arg Pro Gly Ala Gly Arg Gly Asp Asp Arg Leu Asp Ala Gly Arg
 305 310 315 320
 Arg Arg Leu Arg Arg Gly Gly Gln Asn Pro Glu Gln Arg Asp His Gln
 325 330 335
 Tyr His Tyr Arg Ser Val Tyr Ala Gly Ala Ser Asp Leu Leu Arg Ala
 340 345 350

Glu Arg His His Arg Gln Thr Leu Leu His Ala Glu Asn Pro Phe Pro
 355 360 365
 Asp Gln Asn Pro Ala Arg Ala Gly Ala Gly Cys Ala Pro Gln Ser Ala
 370 375 380
 Gly Val
 385

<210> 7930

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 7930

Tyr Val Tyr Leu Arg Pro Leu Val Lys Thr Leu Leu Thr Met Leu Leu
 1 5 10 15
 Met Gly Val Phe Phe Leu Ile Arg Phe Ser Leu Ile Gly Pro Tyr Gln
 20 25 30
 Arg Ala Val Asp Asp Ser Ile Glu Arg Thr Ala Gln Tyr Glu Ser Leu
 35 40 45
 Leu Val Glu Thr Gln Lys Gly Ile Ile Thr Leu Lys Ala Asn Asn Met
 50 55 60
 Glu Gln Ala Arg Asp Ala Val Met Asp Lys Ser Gln Arg Glu His Ile
 65 70 75 80
 Ala Gly Leu Met Arg Lys Glu Arg Leu Leu Ala Arg Phe Asp Val Ala
 85 90 95
 Ser Leu Leu Val Ile Asn Ala Glu Gln Leu Leu Val Val Cys Phe Gly
 100 105 110
 Ala Trp Leu Ile Leu Glu Gly Gln Met Ser Ile Gly Met Leu Tyr Ala
 115 120 125
 Tyr Ile Ser Tyr Lys Arg Tyr Phe Ser Asp Ala Met Val Gln Val Ala
 130 135 140
 Gln Lys Leu Leu Asp Lys Asn Ala Leu Lys Gly Pro Leu Asp Arg Val
 145 150 155 160
 Gly Asp Leu Leu Phe Ala Pro Ser Glu Thr Ser Gln Phe Gly Lys Arg
 165 170 175
 Ile Val Thr Ser Pro Val Cys Leu Gln Phe Glu Asp Val Ser Phe Ala
 180 185 190
 Tyr Pro Gly Arg Glu Ala Thr Leu Gln His Ile Asn Met Thr Leu Lys
 195 200 205
 Gln Gly Glu Glu Ala Val Ile Val Gly Gln Ser Gly Ser Gly Lys Thr
 210 215 220
 Thr Leu Leu Arg Leu Ile Ser Gly Met Leu Leu Ala Ser Ser Gly Thr
 225 230 235 240
 Leu Arg Ile Asn Lys Ile Pro Ile Glu Glu Cys Asp Leu Ser Ser Leu
 245 250 255
 Arg Gln His Ile Arg Ile Val His Ala Asp Asp Ile Leu Phe Thr Gly
 260 265 270
 Ser Ile Leu Asp Asn Ile Ala Cys Phe Asp Ser Ala Pro Asp Lys Glu
 275 280 285
 Gln Val Ile Ala Ala Cys Arg Leu Ala Glu Val Asp His Val Val Ala
 290 295 300
 Arg Leu Pro His Gly Tyr Glu Thr Glu Met Leu Pro Gly Asn Thr Phe
 305 310 315 320
 Phe Ser Ala Gly Glu Met Gln Arg Leu Val Leu Ala Arg Ala Leu Tyr
 325 330 335
 Ser Gln Pro Lys Leu Leu Cys Asp Glu Val Thr Ala Asn Leu Asp
 340 345 350
 Lys Thr Thr Ala Gln Lys Val Leu Ala Asn Leu Arg Ser Leu Gly Ile
 355 360 365
 Gly Leu Val Phe Val Thr His Ser Pro Asp Val Val Gly Cys Gln Gly
 370 375 380

Arg Leu Tyr Thr Met Glu Asn Gly Thr Leu Arg Glu Ser Glu Gln
 385 390 395 400

<210> 7931

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7931

Met Lys Gly Val Leu Met Arg Leu Trp Pro Val Val Thr Gly Val Ala
 1 5 10 15
 Ile Ala Leu Thr Leu Val Ala Cys Lys Ser Pro Thr Pro Lys Gly
 20 25 30
 Val Gln Pro Ile Thr Gly Phe Asp Ala Ser Arg Tyr Leu Gly Lys Trp
 35 40 45
 Tyr Glu Val Ala Arg Leu Glu Asn Arg Phe Glu Arg Gly Leu Glu Gln
 50 55 60
 Val Thr Ala Thr Tyr Gly Lys Arg Ser Asp Gly Gly Ile Ser Val Leu
 65 70 75 80
 Asn Arg Gly Tyr Asp Pro Val Lys Asn Lys Trp Asn Glu Ser Glu Gly
 85 90 95
 Lys Ala Tyr Phe Thr Gly Glu Pro Thr Thr Ala Ala Leu Lys Val Ser
 100 105 110
 Phe Phe Gly Pro Phe Tyr Gly Gly Tyr Asn Val Ile Lys Leu Asp Asp
 115 120 125
 Lys Tyr Gln Tyr Ala Leu Val Ser Gly Pro Asn Arg Asp Tyr Leu Trp
 130 135 140
 Ile Leu Ser Arg Thr Pro Thr Ile Pro Asp Ala Val Lys Gln Asp Tyr
 145 150 155 160
 Leu Asn Thr Ala Arg Gly Leu Gly Phe Arg Val Asp Gln Leu Val Trp
 165 170 175
 Val Lys His 180

<210> 7932

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 7932

Arg Ile Ala Ser Met Thr Arg Phe Arg Gln Met Leu Tyr Ile Ile Val
 1 5 10 15
 Thr Gly Leu Val Met Ala Gly Val Leu Thr Gly Tyr Tyr Leu Trp His
 20 25 30
 Arg Thr Tyr Val Gln Pro Phe Ser Cys Gln Ala Asn Leu Val Gln His
 35 40 45
 His Pro Asp Glu Thr Leu Thr Val Trp Leu Asn Tyr Thr Phe Asp Gly
 50 55 60
 Lys Phe Gly Thr Leu Ser Met Asn Gly Arg Ala Lys Ser Asp Pro Gly
 65 70 75 80
 Lys Thr Ile Asp Arg Lys Ile Ser Phe Arg Val Glu Arg Gln Asp His
 85 90 95
 Leu Tyr Leu Leu Thr Ser Glu Lys Asn Met Thr Phe Pro Asp Asp Asn
 100 105 110
 Val Asp Asp Ser Trp Leu Glu Lys Tyr Glu Pro Gln Phe Phe Val Tyr
 115 120 125
 Pro Gly Lys Ser Ile Tyr Met Arg Ile Asn Glu Gln His Asn Gly Asn
 130 135 140
 Tyr Ile Phe Thr Leu Gly Tar Leu Pro Thr Tyr Val Cys Arg Gly Ser
 145 150 155 160
 Lys Lys Glu

<210> 7933
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 7933
 Cys Ser Ala Ser Ser Phe Val Ile Gly Val Leu His Gln Leu Val Thr
 1 5 10 15
 Pro Ile Gln Trp Val Met Met Ser Asp Thr Val Glu Tyr Gly Glu Trp
 20 25 30
 Thr Asn Gly Lys Arg Leu Thr Gly Ile Ser Phe Ala Gly Thr Leu Phe
 35 40 45
 Val Leu Lys Leu Gly Leu Ala Leu Gly Gly Ala Met Ile Gly Trp Met
 50 55 60
 Leu Ala Gly Gly Gly Tyr Asp Ala Ala Ala Lys Thr Gln Asn Ser Ala
 65 70 75 80
 Thr Ile Ser Ile Ile Ile Gly Leu Phe Thr Leu Ala Pro Ala Ile Cys
 85 90 95
 Tyr Val Leu Ser Ala Ile Ile Ala Lys Arg Tyr Tyr Thr Leu Lys Thr
 100 105 110
 Pro Phe Leu Thr Lys Ile Leu Arg Glu Leu Ala Gln Gly Ala Arg Arg
 115 120 125
 Asn Gln Gln Glu Phe Glu Asn Leu Pro Val Ser Lys Glu Leu Gln Asn
 130 135 140

145

<210> 7934
 <211> 793
 <212> PRT
 <213> Enterobacter cloacae

<400> 7934
 Glu Asp Glu Ser Met Lys Ile Ser Asp Gly Asn Trp Leu Ile Gln Pro
 1 5 10 15
 Gly Leu Asn Val Thr Tyr Pro Val Gln Val Phe Asp Val Glu Gln Gln
 20 25 30
 Gly Asn Asp Leu Val Val Tyr Val Ala Pro Arg Asp Val Arg Glu Arg
 35 40 45
 Thr Trp Gln Leu Asp Thr Leu Met Phe Thr Val Arg Leu Phe Ala Pro
 50 55 60
 Gln Glu Gly Ile Val Gly Val Arg Ile Glu His Phe Gln Gly Ala Leu
 65 70 75 80
 Asn Lys Gly Pro His Tyr Pro Leu Asn Val Leu Lys Asp Val Lys Val
 85 90 95
 Glu Ile Glu Asn Asn Ala Glu Phe Ala Glu Leu Lys Ser Gly Ser Val
 100 105 110
 Ser Val Arg Val Thr Lys Gly Glu Phe Trp Ala Leu Asp Phe Leu Arg
 115 120 125
 Asn Gly Gln Arg Ile Thr Gly Ser Gln Leu Lys Asn Asn Gly Tyr Val
 130 135 140
 Gln Asp Asn Asn Thr Asp Arg Asn Tyr Val Phe Glu Arg Leu Asp Leu
 145 150 155 160
 Gly Val Gly Glu Thr Val Tyr Gly Leu Gly Glu Arg Phe Thr Ala Leu
 165 170 175
 Val Arg Asn Gly Gln Thr Val Glu Thr Trp Asn Arg Asp Gly Gly Thr
 180 185 190
 Ser Thr Glu Gln Ser Tyr Lys Asn Ile Pro Phe Tyr Leu Thr Asn Arg
 195 200 205

Gly Tyr Gly Val Leu Val Asn His Pro Glu Asn Val Ser Phe Glu Val
 210 215 220
 Gly Ser Glu Lys Val Ser Lys Val Gln Phe Ser Val Glu Gly Glu Tyr
 225 230 235 240
 Leu Glu Tyr Phe Val Ile Asp Gly Pro Thr Pro Lys Glu Val Leu Asn
 245 250 255
 Arg Tyr Thr Arg Phe Thr Gly Arg Pro Ala Leu Pro Pro Ala Trp Ser
 260 265 270
 Phe Gly Leu Trp Leu Thr Thr Ser Phe Thr Thr Asn Tyr Asp Glu Ala
 275 280 285
 Thr Val Asn Ser Phe Ile Asp Gly Met Ala Glu Arg Asp Leu Pro Leu
 290 295 300
 His Val Phe His Phe Asp Cys Phe Trp Met Lys Ala Phe Gln Trp Cys
 305 310 315 320
 Asp Phe Glu Trp Asp Pro Val Thr Phe Pro Asp Pro Glu Gly Met Ile
 325 330 335
 Arg Arg Leu Lys Glu Lys Gly Leu Lys Val Cys Val Trp Ile Asn Pro
 340 345 350
 Tyr Ile Gly Gln Lys Ser Pro Ile Phe Arg Glu Leu Lys Glu Lys Gly
 355 360 365
 Tyr Leu Leu Lys Arg Pro Asp Gly Ser Leu Trp Gln Trp Asp Lys Trp
 370 375 380
 Gln Pro Gly Leu Ala Ile Tyr Asp Phe Thr Asn Pro Asp Ala Cys Arg
 385 390 395 400
 Trp Tyr Ala Asp Lys Leu Lys Gly Leu Val Glu Ile Gly Val Asp Cys
 405 410 415
 Phe Lys Thr Asp Phe Gly Glu Arg Ile Pro Thr Asp Val Gln Trp Phe
 420 425 430
 Asp Gly Ser Asp Pro Gln Lys Met His Asn His Tyr Ala Trp Ile Tyr
 435 440 445
 Asn Glu Leu Val Trp Asn Val Leu Lys Glu Thr Val Gly Glu Glu Glu
 450 455 460
 Ala Val Leu Phe Ala Arg Ser Ala Ser Val Gly Ala Gln Gln Phe Pro
 465 470 475 480
 Val His Trp Gly Gly Asp Cys Tyr Ala Asn Tyr Glu Ser Met Ala Glu
 485 490 495
 Ser Leu Arg Gly Gly Leu Ser Ile Gly Leu Ser Gly Phe Gly Phe Trp
 500 505 510
 Ser His Asp Ile Gly Gly Phe Glu Asn Thr Ala Pro Ala His Val Tyr
 515 520 525
 Lys Arg Trp Cys Ala Phe Gly Leu Phe Ser Ser His Ser Arg Leu His
 530 535 540
 Gly Ser Lys Ser Tyr Arg Val Pro Trp Ala Tyr Asp Asp Glu Ser Cys
 545 550 555 560
 Asp Val Val Arg His Phe Thr Gln Leu Lys Cys Gln Leu Met Pro Tyr
 565 570 575
 Leu Tyr Arg Gln Ala Ala Leu Ala Arg Glu Phe Gly Thr Pro Met Leu
 580 585 590
 Arg Ala Met Met Leu Glu Phe Pro Asp Asp Pro Ala Cys Asp Tyr Leu
 595 600 605
 Asp Arg Gln Tyr Met Leu Gly Asp Ser Met Met Val Ala Pro Val Phe
 610 615 620
 Ser Glu Ala Gly Asp Val Gln Phe Tyr Leu Pro Glu Gly Arg Trp Thr
 625 630 635 640
 His Leu Trp His Asn Asp Glu Ile Glu Gly Ser Arg Trp His Lys Gln
 645 650 655
 Gln His Asp Phe Met Ser Leu Pro Val Tyr Val Arg Asp Asn Thr Leu
 660 665 670
 Leu Ala Leu Gly Asn Asn Asn Gln Lys Pro Asp Tyr Ala Trp His Glu
 675 680 685
 Gly Thr Ala Phe Gln Leu Phe Asn Leu Ser Asp Gly Ala Thr Ala Val

690	695	700
Ser Glu Val Pro Ala	Ala Asp Gly Ser Val	Leu Phe Thr Leu Lys Ala
705	710	715
Ser Arg Gln Gly Asp	Val Val Thr Phe Thr	Gly Thr Gly Asp Ala Gln
725	730	735
Asn Trp Ser Val Cys	Leu Arg Asn Val	Gln Lys Val Gly Gly Val Lys
740	745	750
Gly Gly Ser His Ala	Gly Ser Glu Trp	Gly Val Val Val Lys Ala Glu
755	760	765
Gly Asp Glu Val Met	Val His Leu Cys	Ala Val Phe Thr Ser Glu Arg
770	775	780
Pro Ile Arg Asp Tyr	Leu Pro Gln	
785	790	

<210> 7935

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 7935

Gly Phe Leu Thr Met	Gln Pro Ile Ser	Gly Thr Pro Pro	Arg Pro Pro
1	5	10	15
Gly Glu Gly Pro Val	Thr Pro Asn Thr	Pro Gly Glu Gln	Pro Leu Ser
20	25	30	
Thr Gln Gln Arg Thr	Val Leu Glu Arg	Leu Ile Thr Arg	Leu Ile Ala
35	40	45	
Leu Thr Ser Gln Gln	Asn Ala Glu Val	Trp Ala Gly Val	Lys His Asp
50	55	60	
Leu Gly Val Arg Asn	Asp Ala Gln Leu	Gln Ser Arg His	Phe Pro Ala
65	70	75	80
Ala Glu Gln Asn Leu	Asn Gln Arg Leu	Thr Ser Ala Gln	Gln Gln His
85	90	95	
Thr Thr Arg Gln Ile	Ile Ser Gln Leu	Thr Glu Leu Gly	Gln Gln Gly
100	105	110	
Asn Asn Arg Gln Ala	Val Ser Asp Phe	Ile Arg Gln Gln	Tyr Gly His
115	120	125	
Thr Ala Leu Ser Gln	Leu Ser Pro Glu	Gln Leu Lys Thr	Val Leu Thr
130	135	140	
Leu Leu Gln Ser Asn	Gln Leu Ser Ile	Pro Gln Pro Gln	Gln Arg Pro
145	150	155	160
Ser Thr Glu Arg Pro	Leu Gln Pro Ala	Glu His Asn Thr	Leu Lys Gln
165	170	175	
Met Val Thr Lys Leu	Ala Ala Ala Thr	Gly Glu Pro Thr	Lys Leu Ile
180	185	190	
Trp Gln Ser Met Leu	Glu Leu Ser Gly	Val Lys Ala Gly	Glu Met Ile
195	200	205	
Pro Ala Lys Gln Phe	Thr His Leu Val	Thr Trp Leu Gln	Ala Arg Gln
210	215	220	
Thr Leu Ser Thr Gln	Ser Ala Pro Thr	Leu His Ser Val	Gln Ala Ala
225	230	235	240
Leu Lys Gln Pro Leu	Glu Pro His Glu	Phe Asp Thr Ile	Arg Asp Tyr
245	250	255	
Ala Gln Gln Ser Trp	Gln Ala Thr Pro	Gln Thr Val Leu	Thr Thr Ala
260	265	270	
Gln Val Gln Asp Val	Leu Asn Gln Ile	Phe Val Arg Arg	Ala Glu Arg
275	280	285	
Glu Gly Gly Val Pro	Glu Val Arg Asn	Ile Gln Pro Ile	Tyr Asn Pro
290	295	300	
Leu Phe Ala Pro Val	Val Asp Thr Phe	Lys Thr Leu Ser	Ala Arg Pro
305	310	315	320
Gly Leu Met Leu Ile	Ala Leu Val Ile	Ala Leu Ala Ile	Phe Trp Leu

325

330

335

Val Ala

<210> 7936

<211> 339

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(314)

<400> 7936

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Leu Asn Glu Val Met Val Met Ser Gln Lys Thr Leu Phe Lys Gln Thr
1      5      10      15
Ala Leu Ala Val Ala Val Ala Ile Val Ser Thr Ser Ala Trp Ser Ala
      20      25      30
Gly Phe Gln Leu Asn Glu Phe Ser Ser Gly Leu Gly Arg Ala Tyr
      35      40      45
Ser Gly Glu Gly Ala Ile Ala Asp Asp Ala Gly Asn Ala Ser Arg Asn
      50      55      60
Pro Ala Leu Ile Met Met Phe Asp Arg Pro Thr Phe Ser Ala Gly Ala
      65      70      75      80
Val Tyr Ile Asp Pro Asp Val Asn Ile Ser Gly Lys Ser Gln Phe Thr
      85      90      95
Gly Ala Asp Leu Lys Ala Asp Asn Ile Ala Pro Thr Ala Trp Val Pro
      100      105      110
Asn Leu His Phe Val Ala Pro Ile Asn Glu Gln Phe Gly Trp Gly Ala
      115      120      125
Ser Val Thr Ser Asn Tyr Gly Leu Ala Thr Glu Phe Asn Asn Asn Tyr
      130      135      140
Pro Ala Gly Glu Tyr Gly Lys Thr Asp Leu Thr Thr Leu Asn Leu
      145      150      155      160
Asn Leu Ser Gly Ala Tyr Arg Leu Asn Asp Asn Trp Ser Phe Gly Leu
      165      170      175
Gly Phe Asp Ala Val Tyr Ala Asp Ala Lys Ile Glu Arg Tyr Ser Gly
      180      185      190
Glu Gln Thr Thr Ala Ala Leu Pro Lys Asn Ser Asn Lys Ile Ala Ser Leu
      195      200      205
Lys Gly Asp Glu Trp Gly Tyr Gly Trp Asn Ala Gly Ile Leu Tyr Glu
      210      215      220
Leu Asp Lys Asn Asn Arg Trp Gly Leu Thr Tyr Arg Ser Glu Val Lys
      225      230      235      240
Ile Asp Phe Asp Gly Asp Tyr Lys Ser Gly Ile Leu Ser Pro Val Asn
      245      250      255
Gly Met Val Pro Gly Ala Gly Thr Thr Ile Pro Trp Gly Thr Ser Asn
      260      265      270
Gln Thr Val Pro Gly Ser Leu Ser Leu His Leu Pro Lys Met Trp Glu
      275      280      285
Val Ser Gly Tyr Asn Arg Val Ala Pro Gln Trp Ala Ile His Tyr Ser
      290      295      300
Leu Ala Tyr Thr Ser Trp Asn Gln Phe Xaa Glu Leu Lys Ser Thr Gly
      305      310      315      320
Ser Asn Gly Gln Thr Leu Phe Tyr Lys Glu Glu Lys Leu Thr Met Leu
      325      330      335
Tyr Leu Ser

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<210> 7937

<211> 61

<212> PRT

<213> *Enterobacter cloacae*

<400> 7937

```

Leu Phe Val Ala Arg Arg Glu Gly Ser Ser Asp Gly Ala Ala Ala Ser
1      5      10
Pro Ala Arg Thr Ser Ser Ala Ala Pro Ser Gly Gly Trp Ala Gly Ser
20      25      30
Ala Cys Val Ala Ala Gly Ser Ile Ser Gly Ser Ser Arg Ser Pro Gly
35      40      45
Leu Gly Thr Ser Gly Met Ala Ala Asn Ser Ser Trp
50      55      60

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<210> 7938

<211> 101

<212> PRT

<213> *Enterobacter cloacae*

<400> 7938

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Pro Pro Ser Ala Val Pro Arg Thr Cys Gly Ala Thr Arg Phe Thr Thr
1      5      10      15
Ser Thr Pro Ser Ala Gly Lys Ile Ser Ser Glu Gln Pro Gln Pro Val Asn
20      25      30
Ala Ala Pro Ser Ser Ala Thr Asp Ala Glu Gly Ala Cys Gln Ser Ser
35      40      45
Thr Arg Pro Thr Val Ser Met Thr Ser Asp Asp Thr Ala Thr Phe Thr
50      55      60
Pro Pro Lys Arg Ser Ser Ile Gln Pro Asn Ser Thr Arg Ile Asn Thr
65      70      75      80
Asn Ala Pro Pro Lys Ala Val Ser Val Lys Pro Ala Ile Ala Gln Pro
85      90      95
Arg Leu Met Lys
100

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<210> 7939

<211> 724

<212> PRT

<213> *Enterobacter cloacae*

<400> 7939

```

Ser Leu His Val Ser Phe Asn Thr Ser Val Ser Arg Thr Ile Lys Ser
1      5      10      15
Phe Glu Ser His Asn Ser Val His Leu Tyr Ala Glu Gln Val Arg Ser
20      25      30
Ala Ile Phe Cys Gly Asn Leu His Arg Trp Ala His Ile Ala Lys Ile
35      40      45
Val Pro Leu Pro Val Gly Arg Val Thr Tyr Val Lys Gln Asn Ala Ile
50      55      60
Gln Pro Ala Asn Leu Glu Phe Asn Ala Glu Gly Thr Pro Val Ser Arg
65      70      75      80
Asp Phe Asp Asp Val Tyr Phe Ser Asn Asp Asn Gly Leu Glu Glu Thr
85      90      95
Arg Tyr Val Phe Leu Glu Gly Asn His Leu Ser Thr Arg Phe Pro Glu
100      105      110
His Pro Arg Arg Leu Phe Val Val Ala Glu Ser Gly Phe Gly Thr Gly
115      120      125
Leu Asn Phe Leu Thr Leu Trp Gln Ala Phe Asp Cys Phe Arg Ala Ala
130      135      140
Tyr Pro Glu Ala Thr Leu Gln Arg Leu His Phe Ile Ser Phe Glu Lys
145      150      155      160
Phe Pro Leu Thr Ala His Asp Leu Arg Leu Ala His Gln Arg Trp Pro

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[illegible]

Ala Val Ser Ala Pro Val His Pro Glu Leu Phe Met Leu Gly Gly Leu
 660 665 670
 Gly Ser Arg Gly Leu Cys Ser Ala Pro Leu Leu Ala Glu Ala Leu Ala
 675 680 685
 Ala Gln Met Ser Asp Glu Pro Val Pro Leu Asp Arg Val Thr Leu Ala
 690 695 700
 Gly Leu Asn Pro Asn Arg Leu Trp Val Arg Lys Leu Leu Lys Gly Lys
 705 710 715 720
 Met Val Lys

<210> 7940

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7940

Arg Met Lys Lys Lys Thr Ser Leu Ser Glu Glu Asp Gln Ala Leu Phe
 1 5 10 15
 Arg Gln Leu Met Thr Gly Thr Arg Gln Ile Thr His Asp Thr Ile Val
 20 25 30
 His Arg Pro Gln Arg Lys Lys Ile Ser Glu Val Pro Val Lys Arg Leu
 35 40 45
 Leu Gln Glu Gln Ala Asp Asn Ser His Tyr Phe Ser Asp Glu Phe Gln
 50 55 60
 Pro Leu Leu Ser Thr Gln Gly Ala Val Lys Tyr Val Arg Glu Asp Val
 65 70 75 80
 Ser His Phe Glu Leu Lys Lys Leu Arg Arg Gly Asp Tyr Ser Pro Glu
 85 90 95
 Leu Phe Leu Asp Leu His Gly Leu Thr Gln Met Gln Ala Lys Gln Glu
 100 105 110
 Leu Gly Ala Leu Ile Ala Ala Cys Arg Arg Glu His Val Phe Cys Ala
 115 120 125
 Cys Val Met His Gly His Gly Lys His Ile Leu Lys Gln Gln Thr Pro
 130 135 140
 Leu Trp Leu Ala Gln His Pro His Val Met Ala Phe His Gln Ala Pro
 145 150 155 160
 Lys Glu Tyr Gly Gly Asp Ala Ala Leu Leu Val Leu Ile Glu Val Glu
 165 170 175
 Glu Trp Gln Pro Pro Glu Leu Pro
 180 185

<210> 7941

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7941

Gln Lys Arg Cys Asn Met Gln Val Phe Ile Met Arg His Gly Asp Ala
 1 5 10 15
 Ala Leu Asp Ala Ala Ser Asp Ser Val Arg Pro Leu Thr Val Cys Gly
 20 25 30
 Cys Asp Glu Ser Arg Gln Met Ala Thr Trp Leu Lys Gly Gln Lys Val
 35 40 45
 Asp Ile Glu Arg Val Leu Val Ser Pro Phe Leu Arg Ala Glu Gln Thr
 50 55 60
 Leu Asp Val Val Gly Glu Cys Met Asn Leu Pro Ser Ser Val Asp Val
 65 70 75 80
 Leu Pro Glu Leu Thr Pro Cys Gly Asp Val Gly Leu Val Ser Ala Tyr
 85 90 95
 Leu Gln Ala Leu Cys Asn Glu Gly Val Ala Ser Ala Leu Val Ile Ser

	100		105		110										
His	Leu	Pro	Leu	Val	Gly	Tyr	Leu	Val	Ser	Glu	Leu	Cys	Pro	Gly	Glu
	115		120		125										
Thr	Pro	Pro	Met	Phe	Thr	Thr	Ser	Ala	Ile	Ala	Asn	Val	Thr	Leu	Asp
	130				135						140				
Glu	Thr	Gly	Lys	Gly	Val	Phe	Asn	Trp	Gln	Met	Ser	Pro	Cys	Asn	Leu
	145				150					155					160
Lys	Met	Ala	Lys	Ala	Ile										
					165										

<210> 7942

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 7942

Ala	Cys	Thr	Leu	Met	Asp	Asn	Phe	Val	Asp	Leu	Phe	Met	Val	Ser	Pro
1			5					10					15		
Leu	Leu	Leu	Ala	Val	Leu	Phe	Phe	Val	Ala	Met	Leu	Ala	Gly	Phe	Ile
			20					25					30		
Asp	Ala	Leu	Ala	Gly	Gly	Gly	Gly	Leu	Leu	Thr	Val	Pro	Ala	Leu	Leu
		35					40					45			
Ala	Ala	Gly	Met	Ser	Pro	Ala	Gln	Ala	Leu	Ala	Thr	Asn	Lys	Leu	Gln
		50					55				60				
Ala	Cys	Gly	Gly	Ser	Leu	Ser	Ser	Ser	Leu	Tyr	Phe	Ile	Arg	Arg	Lys
		65			70					75			80		
Val	Val	Asn	Leu	Ala	Asp	Gln	Lys	Leu	Asn	Ile	Leu	Met	Thr	Phe	Ile
			85						90				95		
Gly	Ser	Thr	Ala	Gly	Ala	Leu	Leu	Val	Gln	His	Val	Gln	Ser	Asp	Ile
			100					105				110			
Leu	Arg	Gln	Ile	Leu	Pro	Leu	Leu	Val	Ile	Cys	Ile	Gly	Leu	Tyr	Phe
		115					120					125			
Leu	Leu	Met	Pro	Lys	Leu	Gly	Glu	Glu	Asp	Arg	Gln	Arg	Arg	Leu	His
		130				135					140				
Gly	Leu	Pro	Phe	Ala	Leu	Ile	Ala	Gly	Gly	Cys	Val	Gly	Phe	Tyr	Asp
		145			150					155					160
Gly	Phe	Phe	Gly	Pro	Gly	Ala	Gly	Ser	Phe	Tyr	Ala	Leu	Ala	Phe	Val
			165						170					175	
Thr	Leu	Ala	Gly	Phe	Asn	Leu	Ala	Lys	Ser	Thr	Ala	His	Ala	Lys	Val
			180					185					190		
Leu	Asn	Ala	Thr	Ser	Asn	Val	Gly	Gly	Leu	Leu	Leu	Phe	Ile	Ile	Gly
		195					200					205			
Gly	Lys	Val	Ile	Trp	Ala	Thr	Gly	Phe	Val	Met	Met	Ala	Gly	Gln	Phe
		210				215						220			
Leu	Gly	Ala	Arg	Ala	Gly	Ser	Arg	Leu	Val	Leu	Ser	Lys	Gly	Gln	Lys
		225			230				235					240	
Leu	Ile	Arg	Pro	Met	Ile	Val	Val	Val	Ser	Ala	Val	Met	Ser	Ala	Lys
			245						250					255	
Leu	Leu	Tyr	Asp	Ser	His	Gly	Gln	Glu	Ile	Leu	Thr	Trp	Leu	Gly	Met
			260					265						270	

Asn

<210> 7943

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 7943

Ser	Arg	Leu	Tyr	Arg	Ile	Ile	Thr	Thr	Arg	Arg	Arg	Ser	Arg	Arg	Asn
1			5						10					15	

Ala Ser Arg Gly Arg Lys Ile Phe Asn Arg Gly Lys Lys Met Ile Ala
 20 25 30
 Glu Phe Glu Ser Arg Ile Leu Ala Leu Ile Asp Asp Met Val Glu His
 35 40 45
 Ala Ser Asp Asp Glu Leu Phe Ala Ser Gly Tyr Leu Arg Gly His Leu
 50 55 60
 Thr Leu Ala Val Ala Ala Leu Glu Ala Gly Asp Asp His Ser Ala Asp
 65 70 75 80
 Ala Val His Ala Glu Val Thr Arg Ser Leu Glu Asn Ala Ile Gln Ala
 85 90 95
 Gly Glu Leu Ser Pro Arg Asp Gln Ser Leu Val Leu Gly Met Trp Asp
 100 105 110
 Asn Leu Phe Gln Gln Ala Lys Ala Lys
 115 120

<210> 7944

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 7944

Met Lys Arg Ala Val Ile Thr Gly Leu Gly Ile Val Ser Ser Ile Gly
 1 5 10 15
 Asn Asn Gln Gln Glu Val Leu Ala Ser Leu Arg Glu Gly Arg Ser Gly
 20 25 30
 Ile Thr Phe Ser Glu Glu Phe Lys Asp Ser Gly Met Arg Ser His Val
 35 40 45
 Trp Gly Asn Val Lys Leu Asp Thr Thr Gly Leu Ile Asp Arg Lys Val
 50 55 60
 Val Arg Phe Met Asn Asp Ala Ser Ile Tyr Ala Tyr Leu Ser Met Gln
 65 70 75 80
 Glu Ala Ile Lys Asp Ser Gly Leu Ser Glu Asp Val Tyr Gln Asn Asn
 85 90 95
 Pro Arg Val Gly Leu Ile Ala Gly Ser Gly Gly Ser Ser Lys Ala Gln
 100 105 110
 Val Phe Gly Ala Asp Ala Met Arg Ser Pro Arg Gly Leu Lys Ala Val
 115 120 125
 Gly Pro Tyr Val Val Thr Lys Ala Met Gly Ser Ala Val Ser Ala Cys
 130 135 140
 Leu Ala Thr Pro Phe Lys Ile His Gly Val Asn Tyr Ser Ile Ser Ser
 145 150 155 160
 Ala Cys Ala Thr Ser Ala His Cys Ile Gly Asn Ala Val Glu Gln Ile
 165 170 175
 Gln Leu Gly Lys Gln Asp Ile Val Phe Ala Gly Gly Gly Glu Glu Leu
 180 185 190
 Gly Trp Glu Met Ala Cys Glu Phe Asp Ala Met Gly Ala Leu Ser Thr
 195 200 205
 Lys Tyr Asn Glu Thr Pro Asp Lys Ala Ser Arg Thr Tyr Asp Ala His
 210 215 220
 Arg Asp Gly Phe Val Ile Ala Gly Gly Gly Gly Met Val Val Val Glu
 225 230 235 240
 Glu Leu Glu His Ala Leu Ala Arg Gly Ala His Ile Tyr Ala Glu Ile
 245 250 255
 Val Gly Tyr Gly Ala Thr Ser Asp Gly Ala Asp Met Val Ala Pro Ser
 260 265 270
 Gly Glu Gly Ala Val Arg Cys Met Lys Met Ala Met His Gly Val Asp
 275 280 285
 Thr Pro Ile Asp Tyr Leu Asn Ser His Gly Thr Ser Thr Pro Val Gly
 290 295 300
 Asp Val Lys Glu Leu Gly Ala Ile Arg Glu Val Phe Gly Asp Asn Ser
 305 310 315 320

Pro Ala Ile Ser Ala Thr Lys Ala Met Thr Gly His Ser Leu Gly Ala
 325 330 335
 Ala Gly Val Gln Glu Ala Ile Tyr Ser Leu Leu Met Leu Glu Asn Gly
 340 345 350
 Phe Ile Ala Pro Ser Ile Asn Ile Glu Glu Met Asp Glu Gln Ala Ala
 355 360 365
 Gly Leu Asn Ile Val Thr Glu Thr Thr Glu Arg Glu Leu Thr Thr Val
 370 375 380
 Met Ser Asn Ser Phe Gly Phe Gly Gly Thr Asn Ala Thr Leu Val Met
 385 390 395 400
 Arg Lys Leu Lys Ala
 405

<210> 7945

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 7945

Cys Ala Thr Phe Met Val Cys Trp Arg Gln Lys Trp His Tyr Ser Pro
 1 5 10 15
 Leu Thr Ala Lys Leu Ala Tyr Asp Gln Val Gln Ala Glu Arg Leu Ser
 20 25 30
 Met Ser Trp Ile Glu Arg Ile Lys Ser Asn Ile Thr Pro Thr Arg Lys
 35 40 45
 Ala Ser Ile Pro Glu Gly Val Trp Thr Lys Cys Asp Ser Cys Gly Gln
 50 55 60
 Val Leu Tyr Arg Ala Glu Leu Glu Arg Asn Leu Glu Val Cys Pro Lys
 65 70 75 80
 Cys Asp His His Met Arg Met Ser Ala Arg Asn Arg Leu His Ser Leu
 85 90 95
 Leu Asp Glu Gly Ser Leu Val Glu Leu Gly Ser Glu Leu Glu Pro Lys
 100 105 110
 Asp Val Leu Lys Phe Arg Asp Ser Lys Lys Tyr Lys Asp Arg Leu Ala
 115 120 125
 Ser Ala Gln Lys Glu Thr Gly Glu Lys Asp Ala Leu Ile Val Met Lys
 130 135 140
 Gly Thr Leu His Glu Met Pro Val Val Ala Ala Ala Phe Glu Phe Ser
 145 150 155 160
 Phe Met Gly Gly Ser Met Gly Ser Val Val Gly Ala Arg Phe Val Arg
 165 170 175
 Ala Val Glu Gln Ala Leu Glu Asp Asn Cys Pro Leu Ile Cys Phe Ser
 180 185 190
 Ala Ser Gly Gly Ala Arg Met Gln Glu Ala Leu Met Ser Leu Met Gln
 195 200 205
 Met Ala Lys Thr Ser Ala Ala Leu Ala Lys Met Gln Glu Arg Gly Leu
 210 215 220
 Pro Tyr Ile Ser Val Leu Thr Asp Pro Thr Met Gly Gly Val Ser Ala
 225 230 235 240
 Ser Phe Ala Met Leu Gly Asp Leu Asn Ile Ala Glu Pro Lys Ala Leu
 245 250 255
 Ile Gly Phe Ala Gly Pro Arg Val Ile Glu Gln Thr Val Arg Glu Lys
 260 265 270
 Leu Pro Pro Gly Phe Gln Arg Ser Glu Phe Leu Ile Glu Lys Gly Ala
 275 280 285
 Ile Asp Met Ile Val Arg Arg Pro Glu Met Arg Leu Lys Leu Ala Ser
 290 295 300
 Ile Leu Ala Lys Leu Met Asn Leu Pro Ala Pro Asn Pro Asp Glu Pro
 305 310 315 320
 Arg Glu Gly Val Val Pro Asp Gln Glu Pro Glu Ala
 325 330

<210> 7946

<211> 124

<212> PRT

<213> *Enterobacter cloacae*

<400> 7946

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Asn Gln Ile His Leu His Gly Ser Arg Arg Arg Ala Ala Gly Tyr
1      5      10      15
Arg Leu Cys Val Arg Leu Arg Ser Arg Asn Ala Asp Leu Pro Val Arg
20      25      30
Pro Ala Leu Ile Leu Phe Ala Arg Ala Tyr Asp Arg Val Gly Arg Val
35      40      45
Arg Gln Arg Arg Asn Pro Ala Thr Asn Leu Thr Asn Ala Ser Ala Met
50      55      60
Gln Gly His Phe Leu Phe Leu Leu Cys Ala Leu Ala Arg Asn Phe Ser
65      70      75      80
Leu Pro Arg Leu Ala Gln Cys Lys Lys Ile Val Lys Thr Ile Ile Arg
85      90      95
Ser Asp His Leu Met Cys Ala Gln Asn Phe Phe Thr Gly Glu Cys Tyr
100     105     110
Glu Ser Gly Ile Thr Ala Tyr His Pro Thr Arg
115     120

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<210> 7947

<211> 717

<212> PRT

<213> *Enterobacter cloacae*

<400> 7947

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Ile Met Glu Thr Thr Ser Ala Phe Asn Leu Ala Val Arg Leu Asp Asn
1      5      10      15
Val Ala Val Ile Thr Ile Asp Val Pro Asp Glu Lys Met Asn Thr Leu
20      25      30
Lys Ala Glu Phe Gly Val Gln Val Arg Ala Met Leu Arg Gln Ile Arg
35      40      45
Glu Asn Lys Ala Ile Arg Gly Leu Val Phe Ile Ser Ala Lys Pro Asp
50      55      60
Asn Phe Ile Ala Gly Ala Asp Ile Asn Met Ile Ala Arg Ala Lys Ser
65      70      75      80
Ala Gln Glu Ala Glu Asp Leu Ala Arg Gln Gly Gln Gln Val Met Ala
85      90      95
Glu Ile His Ala Leu Ser Ile Pro Val Val Ala Ala Ile His Gly Ala
100     105     110
Cys Leu Gly Gly Gly Leu Glu Leu Ala Leu Ala Cys His Ser Arg Ile
115     120     125
Cys Thr Asp Asp Ala Lys Thr Val Leu Gly Leu Pro Glu Val Gln Leu
130     135     140
Gly Leu Leu Pro Gly Ser Gly Gly Thr Gln Arg Leu Pro Arg Leu Val
145     150     155     160
Gly Val Ser Thr Ala Leu Glu Met Ile Leu Thr Gly Lys Gln Leu Arg
165     170     175
Ala Arg Gln Ala Leu Lys Ala Gly Leu Val Asp Glu Val Val Pro His
180     185     190
Ala Ile Leu Leu Glu Ala Ala Val Glu Arg Ala Leu Lys Gly Arg Gln
195     200     205
Ala Lys Arg Pro Leu Pro Val Arg Glu Arg Ile Leu Ala Gly Pro Leu
210     215     220
Gly Arg Thr Leu Leu Phe Asn Met Val Gly Lys Lys Thr Glu Gln Lys
225     230     235     240
Thr Lys Gly Asn Tyr Pro Ala Ala Thr Arg Ile Leu Lys Val Ile Glu

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<210> 7948

<211> 72

<212> PRT

<213> *Enterobacter cloacae*

<400> 7948

Lys Ile Val Ala Val Ile Gly Leu Leu Leu Glu Gln Thr Phe Asp Arg
 1 5 10 15
 Asn Leu Ala Asp Phe Phe Thr Leu Arg Ala Met Asp Asn Gly Val Val
 20 25 30
 Arg Asp Leu Thr Arg Pro Gly His Gln Leu Ala Glu Glu Ser Leu Ile
 35 40 45
 Leu Leu Ala Glu Arg Cys Phe Leu Phe His Ser Ser Phe Ser Ser Arg
 50 55 60
 Ile Ser Asp Ser Val Pro Asp
 65 70

<210> 7949

<211> 325

<212> PRT

<213> *Enterobacter cloacae*

<400> 7949

Asp Asp His Gln Arg Ala Ser Arg Ser Val Arg Gly Asp Pro Arg Gly
 1 5 10 15
 Thr Asp Arg Arg Ser Asp Ala Gly Asp Arg Ala Asp Gly Ser Leu Pro
 20 25 30
 Ala Pro Ala Arg Ala Glu Cys Gly Cys Asp Asp His His Ser Thr Leu
 35 40 45
 Val Thr Met Lys Lys Thr Ala Ile Ala Leu Leu Ala Leu Leu Val Ser
 50 55 60
 Gly Ala Ser Leu Ala Ala Thr Pro Trp Gln Lys Ile Thr His Pro Val
 65 70 75 80
 Ala Gly Ser Ala Gln Ser Ile Gly Ala Phe Ser Asn Gly Cys Ile Val
 85 90 95
 Gly Ala Gln Glu Leu Pro Leu Gln Ser Asp Thr Tyr Gln Val Met Arg
 100 105 110
 Thr Asp Gln Arg Arg Tyr Phe Gly His Pro Asp Leu Val Leu Phe Ile
 115 120 125
 Gln Arg Leu Gly Asn Gln Val His Asn Leu Gly Leu Gly Thr Met Leu
 130 135 140
 Ile Gly Asp Met Gly Met Pro Ala Gly Gly Arg Phe Asn Gly Gly His
 145 150 155 160
 Ala Ser His Gln Thr Gly Leu Asp Val Asp Ile Phe Leu Gln Leu Pro
 165 170 175
 Lys Thr Arg Trp Ser Ser Ala Gln Leu Leu Lys Pro Gln Ala Leu Asp
 180 185 190
 Leu Val Ser Ala Asp Gly Lys Arg Val Val Ala Ser Arg Trp Ser Pro
 195 200 205
 Glu Ile Ser Ser Met Ile Lys Leu Ala Ala Glu Asp Asn Asp Val Thr
 210 215 220
 Arg Ile Phe Val Asn Pro Ala Ile Lys Gln Gln Leu Cys Leu Asp Ala
 225 230 235 240
 Gly Thr Asp Arg Asp Trp Leu Arg Lys Val Arg Pro Trp Phe Gln His
 245 250 255
 Arg Ala His Met His Val Arg Leu Arg Cys Pro Ala Asn Ser Leu Glu
 260 265 270
 Cys Glu Asp Gln Pro Leu Pro Pro Pro Gly Asp Gly Cys Gly Tyr Glu
 275 280 285
 Leu Gln Ser Ser Trp Phe Glu Pro Ala Lys Pro Gly Thr Ser Lys Pro Glu
 290 295 300
 Lys Lys Thr Pro Pro Pro Leu Pro Pro Ser Cys Gln Ala Leu Leu Asp

305	310	315	320
Glu His Val Leu			
325			

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<210> 7950
<211> 304
<212> PRT
<213> Enterobacter cloacae
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Ala	Gly	Ala	Val	Leu	Val	Cys	Cys	Arg	Gln	Arg	Ala	Phe	Arg	Arg	Arg
1				5				10						15	
Ala	Asp	Gly	Gly	Gln	Asn	Arg	Gly	Lys	Thr	Gly	Ala	Gly	Val	Ser	Val
		20						25					30		
Leu	Met	Ser	Asp	Val	Glu	Gln	Lys	Pro	Val	His	Arg	Ile	Ala	Leu	Gly
		35					40					45			
Ile	Glu	Tyr	Asp	Gly	Ser	Lys	Tyr	Tyr	Gly	Trp	Gln	Arg	Gln	Asn	Glu
	50					55					60				
Val	Arg	Ser	Val	Gln	Glu	Lys	Leu	Glu	Lys	Ala	Leu	Ser	Gln	Val	Ala
65				70						75				80	
Asn	Glu	Pro	Ile	Ser	Val	Phe	Cys	Ala	Gly	Arg	Thr	Asp	Ala	Gly	Val
				85					90					95	
His	Gly	Thr	Gly	Gln	Val	Val	His	Phe	Asp	Thr	Thr	Ala	Val	Arg	Lys
			100					105					110		
Asp	Ala	Ala	Trp	Thr	Leu	Gly	Val	Asn	Ala	Asn	Leu	Pro	Gly	Asp	Ile
		115					120					125			
Ala	Val	Arg	Trp	Val	Lys	Ala	Val	Pro	Asp	Asp	Phe	His	Ala	Arg	Phe
	130					135					140				
Ser	Ala	Thr	Ala	Arg	Arg	Tyr	Arg	Tyr	Val	Ile	Tyr	Asn	Gln	Arg	Leu
145					150					155				160	
Arg	Pro	Ala	Val	Leu	Ser	Gln	Gly	Val	Thr	His	Phe	Tyr	Glu	Pro	Leu
				165						170				175	
Asp	Ala	Glu	Arg	Met	Gln	Arg	Ala	Ala	Gln	Cys	Leu	Ile	Gly	Glu	Asn
		180						185					190		
Asp	Phe	Thr	Ser	Phe	Arg	Ala	Val	Gln	Cys	Gln	Ser	Arg	Thr	Pro	Trp
		195					200					205			
Arg	Asn	Val	Met	His	Ile	Asn	Val	Ser	Arg	Tyr	Gly	Ala	Tyr	Val	Val
		210				215						220			
Val	Asp	Ile	Lys	Ala	Asn	Ala	Phe	Val	His	His	Met	Val	Arg	Asn	Ile
225					230					235				240	
Val	Gly	Ser	Leu	Met	Glu	Val	Gly	Ala	Gly	His	Gln	Pro	Glu	Ser	Trp
				245					250					255	
Ile	Ala	Glu	Leu	Leu	Ala	Ala	Lys	Asp	Arg	Thr	Leu	Ala	Ala	Ala	Thr
		260						265					270		
Ala	Lys	Ala	Glu	Gly	Leu	Tyr	Leu	Val	Ser	Val	Asp	Tyr	Pro	Asp	Arg
		275					280					285			
Phe	Asp	Leu	Pro	Lys	Pro	Pro	Met	Gly	Pro	Leu	Phe	Leu	Ala	Asp	
	290					295					300				

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<210> 7951
<211> 427
<212> PRT
<213> Enterobacter cloacae
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<400> 7951
Gln Pro Gly Ile Met Glu Asn Lys Ser Ile Pro Gln Ala Thr Ser Pro
1      5      10      15
Leu Ala Ala Trp Leu Ser Tyr Leu Glu Asn Leu His Ser Lys Thr Ile
20      25      30
Asp Met Gly Leu Glu Arg Val Ser Gln Val Ala Ala Arg Leu Asp Val
35      40      45

```

Leu Lys Pro Ala Pro Phe Val Phe Thr Val Ala Gly Thr Asn Gly Lys
 50 55 60
 Gly Thr Thr Cys Arg Thr Leu Glu Ser Val Leu Met Ala Ala Gly Tyr
 65 70 75 80
 Lys Val Gly Val Tyr Ser Ser Pro His Leu Val Arg Tyr Thr Glu Arg
 85 90 95
 Val Arg Val Gln Asn Thr Glu Leu Ala Glu Ser Ala His Thr Ala Ser
 100 105 110
 Phe Ala Ala Ile Glu Ala Ala Arg Gly Glu Thr Ser Leu Thr Tyr Phe
 115 120 125
 Glu Tyr Gly Thr Leu Ser Ala Leu Trp Leu Phe Lys Gln Ala Gln Leu
 130 135 140
 Asp Val Val Ile Leu Glu Val Gly Leu Gly Gly Arg Leu Asp Ala Thr
 145 150 155 160
 Asn Met Val Asp Ala Asp Val Ala Val Val Thr Ser Ile Ala Leu Asp
 165 170 175
 His Thr Asp Trp Leu Gly Pro Asp Arg Glu Ser Ile Gly Arg Glu Lys
 180 185 190
 Ala Gly Ile Phe Arg Ala Asn Lys Pro Ala Val Val Gly Glu Pro Asp
 195 200 205
 Met Pro His Thr Ile Ala Glu Val Ala Lys Glu Lys Gly Ala Arg Leu
 210 215 220
 Leu Arg Arg Gly Val Asp Trp Gln Tyr Glu Val Gln Asp Asn Gly Trp
 225 230 235 240
 Arg Phe Ser Asp Ala Gln Gly Val Leu Glu Ser Leu Pro Leu Ser Gln
 245 250 255
 Val Pro Gln Pro Asn Ala Ala Thr Ala Leu Ala Ala Leu Arg Ala Ser
 260 265 270
 Gly Leu Ala Val Ser Glu Gln Ala Ile Arg Asp Gly Ile Gln Asn Ala
 275 280 285
 Leu Leu Pro Gly Arg Phe Gln Ile Val Ser Glu Ser Pro Arg Leu Ile
 290 295 300
 Leu Asp Val Ala His Asn Pro His Ala Ala Tyr Leu Ala Gly Arg
 305 310 315 320
 Leu Lys Ser Leu Pro Lys Thr Gly Arg Val Leu Ala Val Ile Gly Met
 325 330 335
 Leu His Asp Lys Asp Ile Gly Gly Thr Leu Ala Cys Met Glu Ser Val
 340 345 350
 Val Asp Ser Trp Tyr Cys Ala Pro Leu Glu Gly Pro Arg Gly Ala Thr
 355 360 365
 Ala Glu Gln Leu Met Glu His Leu Gly Lys Gly Glu Ile Tyr Ser Ser
 370 375 380
 Val Val Ser Ala Trp Arg Ala Ala Met Ala Glu Ala Lys Pro Glu Asp
 385 390 395 400
 Thr Val Leu Val Cys Gly Ser Phe His Thr Val Ala His Val Met Glu
 405 410 415
 Val Met Asp Ala Gly Arg Thr Gly Gly Glu
 420 425

<210> 7952

<211> 96

<212> PRT

<213> *Enterobacter cloacae*

<400> 7952

Ala Met Ser Ser Lys Cys Ser Ala Asp Glu Thr Pro Val Cys Cys Cys Met
 1 5 10 15
 Asp Val Gly Thr Thr Ile Met Asp Asn Thr Asp Cys Thr Ala Ser Tyr Ser
 20 25 30
 Arg Val Phe Pro Asn Arg Ala Glu Ala Glu Glu Thr Leu Ala Ala Leu
 35 40 45

Ser Gln Arg Ala Arg Glu Val Glu Ser Asp Pro Cys Glu Ile Lys Ser
 50 55 60
 Thr Phe Thr Glu Val Glu Gly Gly Val Gln Leu Asp Ile Asp Phe Val
 65 70 75 80
 Phe Ala Cys Glu Ala Glu Thr Leu Ile Phe Gln Leu Gly Leu Arg
 85 90 95

<210> 7953

<211> 448

<212> PRT

<213> *Enterobacter cloacae*

<400> 7953

Cys Ala Arg Lys Ile Phe Leu Gln Gly Ser Val Met Ser Gln Ala Leu
 1 5 10 15
 Pro Leu Ile Thr Arg His Gly Asp Arg Ile Ala Ile Ile Ser Gly Leu
 20 25 30
 Arg Thr Pro Phe Ala Arg Gln Ala Thr Ala Phe His Gly Ile Pro Ala
 35 40 45
 Val Asp Leu Gly Lys Met Val Val Gly Glu Met Leu Ala Arg Ser Glu
 50 55 60
 Ile Pro Pro Glu Val Ile Glu Gln Leu Val Phe Gly Gln Val Val Gln
 65 70 75 80
 Met Pro Glu Ala Pro Asn Ile Ala Arg Glu Ile Val Leu Gly Thr Gly
 85 90 95
 Met Asn Val His Thr Asp Ala Tyr Ser Val Ser Arg Ala Cys Ala Thr
 100 105 110
 Ser Phe Gln Ala Val Ala Asn Val Ala Glu Ser Leu Met Ala Gly Thr
 115 120 125
 Ile Arg Ala Gly Ile Ala Gly Gly Ala Asp Ser Ser Ser Val Leu Pro
 130 135 140
 Ile Gly Val Ser Lys Gln Leu Ala Arg Ile Leu Val Asp Ala Asn Lys
 145 150 155 160
 Ala Arg Thr Thr Gly Ala Lys Leu Lys Leu Phe Ser Arg Leu Arg Leu
 165 170 175
 Arg Asp Leu Met Pro Val Pro Pro Ala Val Ala Glu Tyr Ser Thr Gly
 180 185 190
 Leu Arg Met Gly Asp Thr Ala Glu Gln Met Ala Lys Thr Tyr Gly Ile
 195 200 205
 Thr Arg Glu Gln Gln Asp Ala Leu Ala His Arg Ser His Gln Leu Ala
 210 215 220
 Ala Lys Ala Trp Ser Glu Gly Lys Leu Ala Asp Glu Val Met Thr Ala
 225 230 235 240
 Tyr Ile Pro Pro Phe Arg Glu Pro Leu Val Glu Asp Asn Asn Ile Arg
 245 250 255
 Gly Thr Ser Thr Leu Glu Asp Tyr Ala Lys Leu Arg Pro Ala Phe Asp
 260 265 270
 Arg Lys His Gly Thr Val Thr Ala Ala Asn Ser Thr Pro Leu Thr Asp
 275 280 285
 Gly Ala Ala Ala Val Ile Leu Met Thr Glu Ser Arg Ala Lys Glu Leu
 290 295 300
 Gly Ile Thr Pro Leu Gly Tyr Leu Arg Ser Tyr Ala Phe Thr Ala Ile
 305 310 315 320
 Asp Val Trp Gln Asp Met Leu Leu Gly Pro Ala Trp Ser Thr Pro Leu
 325 330 335
 Ala Leu Glu Arg Ala Gly Leu Thr Leu Ala Asp Leu Thr Leu Ile Asp
 340 345 350
 Met His Glu Ala Phe Ala Ala Gln Thr Leu Ala Asn Ile Gln Leu Leu
 355 360 365
 Ala Ser Glu Arg Phe Ala Arg Asp Val Leu Gly Arg Ala His Ala Thr
 370 375 380

Gly Glu Val Asp Gln Ser Lys Phe Asn Val Leu Gly Gly Ser Ile Ala
 385 390 395 400
 Tyr Gly His Pro Phe Ala Ala Thr Gly Ala Arg Met Ile Thr Gln Thr
 405 410 415
 Leu His Glu Leu Arg Arg Arg Gly Gly Phe Gly Leu Val Thr Ala
 420 425 430
 Cys Ala Ala Gly Gly Leu Gly Ala Ala Met Val Leu Glu Ala Glu
 435 440 445

<210> 7954

<211> 341

<212> PRT

<213> *Enterobacter cloacae*

<400> 7954

Pro Gln Ala Thr Arg Val Ile Ala Asp Leu Ser Pro Ser Ser Trp Gln
 1 5 10 15
 Thr Ser Arg Arg Lys Leu Cys Glu His Ala Leu Glu Glu Arg Val Asp
 20 25 30
 Lys Ile Phe Val Asp Glu Ala Val Asn Glu Leu His Thr Ile Gln Asp
 35 40 45
 Met Leu Arg Trp Ser Val Ser Arg Phe Ser Ala Ala Asn Ile Trp Tyr
 50 55 60
 Gly His Gly Thr Asp Asn Pro Trp Asp Glu Ala Val Gln Leu Val Leu
 65 70 75 80
 Pro Ser Leu Tyr Leu Pro Leu Asp Ile Pro Glu Asp Met Arg Thr Ala
 85 90 95
 Arg Leu Thr Ser Ser Glu Lys His Arg Ile Val Glu Arg Val Ile Arg
 100 105 110
 Arg Val Asn Glu Arg Ile Pro Val Ala Tyr Leu Thr Asn Lys Ala Trp
 115 120 125
 Phe Cys Gly His Glu Phe Tyr Val Asp Glu Arg Val Leu Val Pro Arg
 130 135 140
 Ser Pro Ile Gly Glu Leu Ile Asn Asn His Phe Asp Gly Leu Ile Asn
 145 150 155 160
 His Gln Pro Gln His Ile Leu Asp Met Cys Thr Gly Ser Gly Cys Ile
 165 170 175
 Ala Ile Ala Cys Ala Tyr Ala Phe Pro Glu Ala Glu Val Asp Ala Val
 180 185 190
 Asp Ile Ser Thr Asp Ala Leu Ala Val Thr Glu His Asn Ile Glu Glu
 195 200 205
 His Gly Leu Ile His His Val Thr Pro Ile Arg Ser Asp Leu Phe Arg
 210 215 220
 Asp Leu Pro Thr Leu Gln Tyr Asp Leu Ile Val Thr Asn Pro Pro Tyr
 225 230 235 240
 Val Asp Ala Glu Asp Met Ser Asp Leu Pro Asn Glu Tyr Arg His Glu
 245 250 255
 Pro Glu Leu Gly Leu Ala Ser Gly Ser Asp Gly Leu Lys Leu Thr Arg
 260 265 270
 Arg Ile Leu Ala Cys Ala Pro Asp Tyr Leu Thr Asp Asp Gly Val Leu
 275 280 285
 Ile Cys Glu Val Gly Asn Ser Met Val His Leu Ile Glu Gln Tyr Pro
 290 295 300
 Asp Val Pro Phe Thr Trp Trp Glu Phe Asp Asn Gly Gly Asp Gly Val
 305 310 315 320
 Phe Met Leu Thr Lys Ala Gln Leu Leu Asp Ala Arg Glu Tyr Phe Ser
 325 330 335
 Ile Tyr Lys Asp
 340

<210> 7955

<211> 382

<212> PRT

<213> *Enterobacter cloacae*

<400> 7955

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Ser Ser Gly Leu Arg Pro Val Ser Gln Arg Ser Asn Thr Asn Asn Asn
1      5      10      15
Ile Gly Ala Val Met Ala Gly Asn Ser Ile Gly Gln Val Phe Arg Val
20      25
Thr Thr Phe Gly Glu Ser His Gly Leu Ala Leu Gly Cys Ile Val Asp
35      40      45
Gly Val Pro Pro Gly Ile Glu Leu Thr Glu Ala Asp Leu Gln His Asp
50      55      60
Leu Asp Arg Arg Arg Pro Gly Thr Ser Arg Tyr Thr Thr Gln Arg Arg
65      70      75      80
Glu Pro Asp Gln Val Lys Ile Leu Ser Gly Val Phe Glu Gly Arg Thr
85      90      95
Thr Gly Thr Ser Ile Gly Leu Leu Ile Glu Asn Thr Asp Gln Arg Ser
100      105      110
Gln Asp Tyr Gly Ala Ile Lys Asp Val Phe Arg Pro Gly His Ala Asp
115      120      125
Tyr Thr Tyr Glu Gln Lys Tyr Gly Phe Arg Asp Tyr Arg Gly Gly Gly
130      135      140
Arg Ser Ser Ala Arg Glu Thr Ala Met Arg Val Ala Ala Gly Ala Ile
145      150      155      160
Ala Lys Lys Tyr Leu Gln Gln Lys Phe Gly Ile Val Ile Arg Gly Cys
165      170      175
Leu Thr Gln Met Gly Asp Ile Pro Leu Ala Ile Lys Asp Trp Glu Gln
180      185      190
Val Glu Leu Asn Pro Phe Phe Cys Ala Asp Ala Asp Lys Leu Asp Ala
195      200      205
Leu Asp Glu Leu Met Arg Gly Leu Lys Lys Glu Gly Asp Ser Ile Gly
210      215      220
Ala Lys Val Thr Val Val Ala Asp Gly Val Pro Ala Gly Trp Gly Glu
225      230      235      240
Pro Val Phe Asp Arg Leu Asp Ala Asp Ile Ala His Ala Leu Met Ser
245      250      255
Ile Asn Ala Val Lys Gly Val Glu Ile Gly Asp Gly Phe Asp Val Val
260      265      270
Lys Leu Arg Gly Ser Gln Asn Arg Asp Glu Ile Thr Lys Ala Gly Phe
275      280      285
Gln Ser Asn His Ala Gly Gly Ile Leu Gly Gly Ile Ser Ser Gly Gln
290      295      300
Gln Ile Ile Ala Asn Ile Ala Leu Lys Pro Thr Ser Ser Ile Thr Val
305      310      315      320
Pro Gly His Thr Ile Asn Arg Ala Gly Asp Glu Val Glu Met Ile Thr
325      330      335
Lys Gly Arg His Asp Pro Cys Val Gly Ile Arg Ala Val Pro Ile Ala
340      345      350
Glu Ala Met Leu Ala Ile Val Leu Met Asp His Phe Leu Arg Gln Arg
355      360      365
Ala Gln Asn Ala Asp Val Thr Thr Thr Ile Pro Arg Trp
370      375      380

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<210> 7956

<211> 180

<212> PRT

<213> *Enterobacter cloacae*

<400> 7956

Ser Cys Glu Ser Arg Arg Ser Glu Ala Gln Tyr Pro Asp Asp Val Tyr

```

1           5           10           15
Trp Leu Asn Gly Arg Ala Ala Gly Pro Ala Arg Thr Val Arg His
                20                25                30
Ser Ala Pro Asp Pro Ala Ala Ala Gly Tyr Leu Tyr Arg Pro Leu Phe
                35                40                45
Leu Thr His Ala Lys Ala Arg Gly Arg Arg Ser Thr Ala Ser Pro Ser
                50                55                60
Arg Pro Ala Val Cys Ala Asp Arg Arg Trp Leu Arg Arg Phe Leu Arg
65                70                75                80
Trp Leu Leu Trp Pro Gly Gly Arg Leu Val Leu Arg Ala Gly Ile Arg
                85                90                95
Asp Ala Gly Arg Val Gln Pro Arg Gln Ile His Arg Pro Arg Gln Ser
                100                105                110
Pro Gln Arg Asp Leu Gln Arg Trp Arg Ser Ala Ala Val Tyr His Trp
                115                120                125
Arg Gln Gly Tyr Leu Gly Asn Arg Val Cys Asp Asp Gly Arg Ala Val
                130                135                140
Phe Gly Arg Ala Arg Arg Leu Ala Ser Gly Ile Lys Gln Arg Ala Lys
145                150                155                160
Ala Asp Pro Pro Asp Asp Cys Cys Arg Leu Gly Gly Asp Glu Arg Gln
                165                170                175
Thr Ser Leu
                180

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<210> 7957

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 7957

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Gln Pro Trp Thr Gly Asp Pro His Leu Val Gly Asp Glu Leu Met Asn
1           5           10           15
Ser Thr His Asn Tyr Glu Gln Leu Ile Glu Ile Phe Asp Ser Cys Phe
                20                25                30
Ala Asp Asp Phe Asn Thr Arg Leu Ile Lys Gly Asp Asp Glu Pro Ile
                35                40                45
Tyr Leu Pro Ala Asp Asp Glu Val Pro Tyr Asn Arg Ile Ile Phe Ala
                50                55                60
His Gly Phe Tyr Ala Ser Gly Leu His Glu Ile Ser His Trp Cys Ile
65                70                75                80
Ala Gly Lys Ala Arg Arg Glu Leu Val Asp Phe Gly Tyr Trp Tyr Cys
                85                90                95
Pro Asp Gly Arg Asp Ala Ala Thr Gln Gly Gln Phe Glu Asp Val Glu
                100                105                110
Val Lys Pro Gln Ala Leu Glu Trp Leu Phe Cys Val Ala Ala Gly Phe
                115                120                125
Pro Phe Asn Val Ser Cys Asp Asn Leu Glu Gly Asp Phe Glu Pro Asp
                130                135                140
Arg Ile Val Phe Gln Arg Arg Val His Ala Gln Val Met Glu Tyr Leu
145                150                155                160
Glu Lys Gly Ile Pro Ala Arg Pro Ala Arg Leu Ile Glu Ala Leu Gln
                165                170                175
Asn Tyr Tyr His Thr Pro Glu Ile Thr Ala Glu Arg Phe Pro Trp Pro
                180                185                190
Glu Asp Leu
                195

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<210> 7958

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 7958

Arg Tyr Ser Arg Arg Glu Pro Arg Gly Ser Leu Phe Leu Cys Leu Asn
 1 5 10
 Thr Glu Leu Cys Met Lys Ala Val Thr Pro Glu Lys Ser Ala Pro Ser
 20 25 30
 Gly Asn Leu Ser Leu Phe Arg Ile Ala Phe Ala Val Phe Leu Thr Tyr
 35 40 45
 Met Thr Val Gly Leu Pro Leu Pro Val Ile Pro Leu Phe Val His Gln
 50 55 60
 Glu Leu Gly Tyr Gly Asn Thr Met Val Gly Ile Ala Val Gly Ile Gln
 65 70 75 80
 Phe Leu Ala Thr Val Leu Thr Arg Gly Tyr Ala Gly Arg Leu Ala Asp
 85 90 95
 Gln His Gly Ala Lys Arg Ser Ala Leu Gln Gly Met Phe Ala Cys Gly
 100 105 110
 Leu Ala Gly Gly Ala Trp Leu Leu Ala Ala Leu Leu Pro Ile Asp Ala
 115 120 125
 Ala Tyr Lys Phe Ala Leu Leu Val Val Gly Arg Leu Ile Leu Gly Phe
 130 135 140
 Gly Glu Ser Gln Leu Leu Thr Gly Thr Leu Thr Trp Gly Met Gly Leu
 145 150 155 160
 Val Gly Pro Ala Arg Ser Gly Lys Val Met Ser Trp Asn Gly Met Ala
 165 170 175
 Ile Tyr Gly Ala Leu Ala Ala Gly Ala Pro Leu Gly Leu Leu Ile His
 180 185 190
 Ser Gln Phe Gly Phe Ala Ala Leu Ala Gly Thr Thr Met Val Leu Pro
 195 200 205
 Leu Leu Ala Trp Ala Phe Asn Gly Ser Val Arg Lys Val Pro Ala His
 210 215 220
 Lys Gly Glu Arg Pro Ser Leu Trp Ser Val Val Gly Gln Ile Trp Gln
 225 230 235 240
 Pro Gly Leu Gly Leu Ala Leu Gln Gly Val Gly Phe Ala Val Ile Gly
 245 250 255
 Thr Phe Val Ser Leu Tyr Phe Met Ser Arg Gly Trp Ala Met Ala Gly
 260 265 270
 Phe Thr Leu Thr Ala Phe Gly Gly Ala Phe Val Leu Met Arg Val Leu
 275 280 285
 Phe Gly Trp Met Leu Asp Arg Phe Gly Gly Val Lys Val Ala Val Ser
 290 295 300
 Ser Leu Val Ile Glu Thr Val Gly Leu Val Leu Leu Trp Gln Ala Pro
 305 310 315 320
 Ser Ala Ser Val Ala Leu Leu Gly Ala Ala Leu Thr Gly Cys Gly Cys
 325 330 335
 Ser Leu Ile Phe Pro Ala Leu Gly Val Glu Val Val Lys Arg Val Ala
 340 345 350
 Pro Gln Val Arg Gly Thr Ala Leu Gly Gly Tyr Ala Ala Phe Gln Asp
 355 360 365
 Ile Ser Tyr Gly Ile Thr Gly Pro Leu Ala Gly Leu Leu Ala Thr Ser
 370 375 380
 Phe Gly Tyr Pro Ser Val Phe Leu Ala Gly Ala Val Ser Ala Val Val
 385 390 395 400
 Gly Ile Val Val Thr Met Val Ala Phe Arg Lys Arg
 405 410

<210> 7959

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 7959

Val Tyr Phe Leu Ser Asn Arg Tyr Ser Asp Val Lys Ile Leu Val Asp
 1 5 10 15
 Glu Asn Met Pro Tyr Ala Arg Glu Leu Phe Ser Arg Leu Gly Glu Val
 20 25 30
 Lys Ala Val Pro Gly Arg Pro Ile Pro Val Ser Glu Leu Asp Asp Ala
 35 40 45
 Asp Ala Leu Met Val Arg Ser Val Thr Lys Val Asn Glu Ala Leu Leu
 50 55 60
 Thr Gly Lys Gly Val Lys Phe Val Gly Thr Ala Thr Ala Gly Thr Asp
 65 70 75 80
 His Val Asp Asp Gln Trp Leu Lys Gln Ala Gly Ile Gly Phe Ser Ala
 85 90 95
 Ala Pro Gly Cys Asn Ala Ile Ala Val Val Glu Tyr Val Phe Ser Ser
 100 105 110
 Leu Leu Met Leu Ala Glu Arg Asp Gly Phe Thr Leu Lys Asp Arg Thr
 115 120 125
 Val Gly Ile Val Gly Val Gly Asn Val Gly Gly Arg Leu Gln Lys Arg
 130 135 140
 Leu Glu Ala Trp Gly Ile Ser Thr Leu Leu Cys Asp Pro Pro Arg Lys
 145 150 155 160
 Asp Asn Gly Asp Glu Gly Asp Phe Arg Thr Leu Asp Glu Leu Val Asp
 165 170 175
 Glu Cys Asp Val Ile Thr Phe His Thr Pro Leu Phe Lys Glu Gly Pro
 180 185 190
 Tyr Lys Thr Leu His Leu Ala Asp Glu Lys Leu Ile Arg Arg Leu Lys
 195 200 205
 Ala Gly Thr Ile Leu Ile Asn Ala Cys Arg Gly Pro Val Val Asp Asn
 210 215 220
 Ala Ala Leu Leu Ala Cys Leu Asp Glu Gly Gln Glu Leu Ser Val Val
 225 230 235 240
 Leu Asp Val Trp Glu Pro Glu Pro Asp Leu Asn Val Ala Leu Leu Asp
 245 250 255
 Lys Val Asp Val Gly Thr Ala His Ile Ala Gly Tyr Thr Leu Glu Gly
 260 265 270
 Lys Ala Arg Gly Thr Thr Gln Val Phe Glu Ala Tyr Ser Ala Phe Ile
 275 280 285
 Gly His Pro Gln Gln Val Ala Leu Asp Thr Leu Leu Pro Ala Pro Glu
 290 295 300
 Phe Gly Arg Ile Thr Leu His Gly Leu Leu Asp Glu Ala Thr Leu Lys
 305 310 315 320
 Arg Leu Val His Leu Val Tyr Asp Val Arg Arg Asp Asp Ala Leu Leu
 325 330 335
 Arg Lys Val Ala Gly Ile Pro Gly Glu Phe Asp Lys Leu Arg Lys Asn
 340 345 350
 Tyr Leu Glu Arg Arg Glu Trp Ser Ser Leu Tyr Val Met Cys Asp Asp
 355 360 365
 Ala Ser Ala Ala Gly Leu Leu His Lys Leu Gly Phe Asn Ala Val His
 370 375 380
 His Pro Ala Arg
 385

<210> 7960

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 7960

Thr Thr Met Ser Glu Gly Trp Asn Ile Ala Ile Leu Gly Ala Thr Gly
 1 5 10 15
 Ala Val Gly Glu Ala Leu Leu Glu Thr Leu Ala Glu Arg Gln Phe Pro
 20 25 30

Val Gly Glu Ile Tyr Ala Leu Ala Arg Thr Asp Ser Ala Gly Glu Gln
 35 40 45
 Leu Arg Phe Gly Gly Lys Ser Leu Met Val Gln Asp Ala Ala Ala Phe
 50 55 60
 Asp Trp Thr Gln Ala Gln Leu Ala Phe Phe Ala Ala Gly Ala Gln Ala
 65 70 75 80
 Thr Ala Ser Tyr Ile Glu Glu Ala Thr Asn Ser Gly Cys Leu Val Ile
 85 90 95
 Asp Leu Ser Gly Leu Phe Ser Leu Glu Pro Asp Val Ser Leu Val Val
 100 105 110
 Pro Asp Val Asn Pro Phe Val Leu Ala Asp Tyr Arg Asn Arg Asn Ile
 115 120 125
 Ile Ala Val Pro Asn Ser Leu Thr Ser Gln Leu Leu Thr Ala Leu Lys
 130 135 140
 Pro Leu Ile Asp Asp Gly Gly Leu Ser Arg Ile Ser Val Thr Ser Leu
 145 150 155 160
 Leu Ser Ala Ser Ala Asn Gly Lys Lys Ala Val Asp Ala Leu Ala Gly
 165 170 175
 Gln Ser Ala Lys Leu Leu Asn Gly Ile Pro Ile Asp Glu Asp Asp Phe
 180 185 190
 Phe Gly Arg Gln Leu Ala Phe Asn Met Leu Pro Leu Leu Pro Asp Arg
 195 200 205
 Glu Gly Ser Val Arg Glu Glu Arg Arg Ile Val Asp Glu Ala Arg Lys
 210 215 220
 Ile Leu Gln Asp Asp Gly Leu Met Ile Ser Ala Asn Val Val Gln Ser
 225 230 235 240
 Pro Val Phe Tyr Gly His Ala Gln Met Val Gly Phe Glu Ala Leu Arg
 245 250 255
 Pro Leu Ala Ala Glu Glu Ala Arg Asp Ala Phe Gly Arg Gly Glu Asp
 260 265 270
 Ile Val Leu Ser Glu Glu Ser Glu Phe Pro Thr Gln Val Gly Asp Ala
 275 280 285
 Thr Gly Ser Ala His Leu Ser Val Gly Cys Val Arg Asn Asp Tyr Gly
 290 295 300
 Met Pro Glu Gln Val Gln Phe Trp Ser Val Ala Asp Asn Val Arg Phe
 305 310 315 320
 Gly Gly Ala Leu Met Ala Val Lys Ile Ala Glu Lys Leu Val Gln Glu
 325 330 335
 Tyr Leu Tyr
 340

<210> 7961

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 7961

Gly Leu Asp Asn Met Asp Val Ile Arg Phe Leu Ile Asp Phe Ile Leu
 1 5 10 15
 His Ile Asp Val His Leu Ala Glu Leu Val Ala Gln Tyr Gly Val Trp
 20 25 30
 Val Tyr Ala Ile Leu Phe Leu Ile Leu Phe Cys Glu Thr Gly Leu Val
 35 40 45
 Val Thr Pro Phe Leu Pro Gly Asp Ser Leu Leu Phe Val Ala Gly Ala
 50 55 60
 Leu Ser Ala Leu Pro Thr Asn Asp Leu Asn Val His Leu Met Val Val
 65 70 75 80
 Leu Met Ile Ile Ala Ala Ile Val Gly Asp Ala Val Asn Tyr Thr Ile
 85 90 95
 Gly Arg Val Phe Gly Glu Arg Leu Phe Ser Asn Pro Asp Ser Lys Ile
 100 105 110

Phe Arg Arg Ser Tyr Leu Asp Lys Thr His Ala Phe Tyr Glu Arg His
 115 120 125
 Gly Gly Lys Thr Ile Ile Leu Ala Arg Phe Val Pro Ile Val Arg Thr
 130 135 140
 Phe Ala Pro Phe Val Ala Gly Met Gly His Met Ser Tyr Arg His Phe
 145 150 155 160
 Ala Met Tyr Asn Val Val Gly Ala Leu Leu Trp Val Leu Leu Phe Thr
 165 170 175
 Tyr Ala Gly Tyr Leu Phe Gly Asp Leu Pro Val Val Gln Glu Asn Leu
 180 185 190
 Lys Leu Leu Ile Val Ala Ile Ile Val Leu Ser Val Leu Pro Gly Val
 195 200 205
 Ile Glu Ile Ile Arg His Lys Arg Ala Ala Lys Gln Ala Lys
 210 215 220

<210> 7962

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 7962

Trp Thr Arg Gly Glu Pro Val Ala Ser Lys Phe Gln Asn Arg Leu Thr
 1 5 10 15
 Gly Thr Ile Val Leu Val Ala Leu Gly Val Ile Ile Leu Pro Gly Leu
 20 25 30
 Leu Asp Gly Gln Lys Lys His Tyr Gln Asp Glu Phe Ala Ala Ile Pro
 35 40 45
 Leu Val Pro Lys Pro Gly Asp Arg Asp Glu Pro Asp Met Leu Pro Ala
 50 55 60
 Ala Thr Gln Ala Leu Pro Ala Gln Pro Pro Gly Gly Ala Ala Glu Glu
 65 70 75 80
 Val Arg Ala Gly Asp Ala Ala Ala Pro Ser Leu Asp Pro Ser Arg Leu
 85 90 95
 Ala Thr Asn Asn His Ile Leu His Gln Gly Ser Cys Arg Ser Ala Ser
 100 105 110
 His

<210> 7963

<211> 257

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (252)

<400> 7963

Val Lys Asp Tyr Met Val Ala Arg Thr Ser Arg Lys Glu Arg Phe Ser
 1 5 10 15
 Met Phe Arg Asp Arg Pro Leu Lys Arg Met Lys Ser Pro Arg Asp Glu
 20 25 30
 Asp Asp Val Glu Asp Asp Ile Asp Gly Leu Asp Asp Gly Val Gly
 35 40 45
 Glu Val Arg Val His Arg Val Asn Thr Ala Pro Gly Ala Ala His Gly
 50 55 60
 Glu His Glu Ala Pro Arg Ala Pro Gln His Gln Tyr Gln Pro Pro Tyr
 65 70 75 80
 Ala Ser Ala Gln Pro Arg Gln Pro Ala Pro Pro Val Glu Glu Pro
 85 90 95
 Val Arg His Pro Pro His Gln Pro Val Gln Gln Gln Pro Val Ala Pro

```

      100      105      110
Gln Pro Val Gln Pro Gln Pro Val Gln Gln Pro Ala Gln Pro Val His
      115      120      125
Gln Pro Gln Pro Val Gln Gln Pro Gln Pro Val Gln Gln Pro Gln Pro
      130      135      140
Gln Pro Glu Pro Pro Ala Pro Gln Pro Ala Pro Arg Ala Glu Pro Glu
145      150      155      160
Pro Val Ala Glu Pro Glu Pro Val Val Glu Lys Pro Gln Arg Lys Glu
      165      170      175
Ala Val Ile Ile Met Asn Val Ala Ala His His Gly Thr His Leu Asn
      180      185      190
Gly Asp Val Leu Leu Asn Ser Ile Gln Gln Ala Gly Phe Lys Phe Gly
195      200      205
Asp Met Asn Ile Phe His Arg His Leu Ser Pro Asp Gly Ser Gly Pro
210      215      220
Ala Leu Phe Ser Leu Ala Asn Met Val Asn Pro Gly Thr Leu Val Phe
225      230      235      240
Tyr Leu Gly Asn Ser Thr Asp Ala Arg Lys Asn Xaa Ile Ser Pro Pro
      245      250      255
Ala

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<210> 7964

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 7964

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Ile Pro Pro Ala Val Thr Ile Ser Ser Gly Arg Phe Met His Ala Asp
1      5      10      15
Arg Ser Thr Gln Arg Ala Thr Thr Arg Leu Cys Ile Gln Cys Gly Leu
      20      25      30
Phe Leu Leu Gln His Gly Ala Glu Ser Ala Leu Val Glu Glu Leu Ser
35      40      45
Thr Arg Leu Gly Leu Ala Leu Gly Met Asp Ser Val Glu Ser Ser Ile
50      55      60
Ser Ser Asn Ala Ile Val Leu Thr Thr Ile Lys Asp Gly Gln Cys Leu
65      70      75      80
Thr Ser Thr Arg Lys Asn His Asp Arg Gly Ile Asn Met His Val Val
      85      90      95
Thr Glu Val Gln His Ile Val Ile Leu Ala Glu His Arg Leu Leu Asp
100      105      110
Leu Arg Glu Ile Glu Lys Arg Phe Asn Gln Ile Lys Pro Leu Arg Tyr
115      120      125
Pro Arg Trp Leu Val Val Leu Met Val Gly Leu Ser Cys Ala Cys Phe
130      135      140
Cys Lys Leu Asn Ala Gly Gly Trp Asp Gly Ala Val Val Thr Phe Phe
145      150      155      160
Ala Ser Ser Ile Ala Met Tyr Val Arg Gln Leu Leu Thr His Arg Gln
      165      170      175
Leu His Pro Gln Ile Asn Phe Cys Ile Thr Ala Phe Val Ala Thr Thr
      180      185      190
Val Ser Gly Leu Leu Leu Arg Gln Pro Tyr Phe Ala Ser Thr Pro Thr
195      200      205
Val Ala Met Ala Ala Ser Val Leu Leu Leu Val Pro Gly Phe Pro Leu
210      215      220
Ile Asn Ala Val Ala Asp Met Phe Lys Gly His Ile Asn Thr Gly Leu
225      230      235      240
Ala Arg Trp Ala Ile Ala Ser Leu Leu Thr Leu Ala Thr Cys Ile Gly
      245      250      255
Val Val Met Ala Met Thr Leu Trp Gly Leu Arg Gly Trp Ala

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260

265

270

<210> 7965

<211> 493

<212> PRT

<213> Enterobacter cloacae

<400> 7965

Gly Asp Cys Lys Met Lys Lys Ile Asn His Trp Ile Asn Gly Lys Asn
 1 5 10 15
 Val Ala Gly Ser Glu Tyr Phe Gln Thr Thr Asn Pro Ala Ser Gly Glu
 20 25 30
 Val Leu Ala Glu Val Ala Ser Gly Gly Glu Ala Glu Ile His Gln Ala
 35 40 45
 Val Ala Ala Ala Lys Glu Ala Phe Pro Lys Trp Ala Asn Leu Pro Met
 50 55 60
 Lys Glu Arg Ala Arg Leu Met Arg Arg Leu Gly Asp Leu Ile Asp Gln
 65 70 75 80
 Asn Val Pro Asp Ile Ala Ala Met Glu Thr Ala Asp Thr Gly Leu Pro
 85 90 95
 Ile His Gln Thr Lys Asn Val Leu Ile Pro Arg Ala Ser His Asn Phe
 100 105 110
 Glu Phe Phe Ala Glu Val Cys Gln Gln Met Asn Gly Lys Thr Tyr Pro
 115 120 125
 Val Asp Asp Lys Met Leu Asn Tyr Thr Leu Val Gln Pro Val Gly Val
 130 135 140
 Cys Ala Leu Val Ser Pro Trp Asn Val Pro Phe Met Thr Ala Thr Trp
 145 150 155 160
 Lys Val Ala Pro Cys Leu Ala Leu Gly Asn Thr Ala Val Leu Lys Met
 165 170 175
 Ser Glu Leu Ser Pro Leu Thr Ala Asp Arg Leu Gly Glu Leu Ala Leu
 180 185 190
 Glu Ala Gly Ile Pro Ala Gly Val Leu Asn Val Val Gln Gly Tyr Gly
 195 200 205
 Ala Thr Ala Gly Asp Ala Leu Val Arg His His Asp Val Arg Ala Val
 210 215 220
 Ser Phe Thr Gly Gly Thr Ala Thr Gly Arg Asn Ile Met Lys Asn Ala
 225 230 235 240
 Gly Leu Lys Lys Tyr Ser Met Glu Leu Gly Gly Lys Ser Pro Val Leu
 245 250 255
 Ile Phe Glu Asp Ala Asp Ile Glu Arg Ala Leu Asp Ala Ala Leu Phe
 260 265 270
 Thr Ile Phe Ser Ile Asn Gly Glu Arg Cys Thr Ala Gly Ser Arg Ile
 275 280 285
 Phe Ile Gln Gln Ser Ile Tyr Pro Glu Phe Val Lys Arg Phe Ala Glu
 290 295 300
 Arg Ala Asn Arg Leu Arg Val Gly Asp Pro Thr Asp Pro Asn Thr Gln
 305 310 315 320
 Ile Gly Ala Leu Ile Ser Gln Gln His Trp Gly Lys Val Ser Gly Tyr
 325 330 335
 Ile Arg Leu Gly Ile Glu Glu Gly Ala Thr Leu Leu Ala Gly Gly Pro
 340 345 350
 Asp Lys Pro Thr Asp Leu Pro Ala His Leu Lys Gly Gly Asn Phe Leu
 355 360 365
 Arg Pro Thr Val Leu Ala Asp Val Asp Asn Arg Met Arg Val Ala Gln
 370 375 380
 Glu Glu Ile Phe Gly Pro Val Ala Cys Leu Leu Pro Phe Lys Asp Glu
 385 390 395 400
 Ala Glu Gly Leu Arg Leu Ala Asn Asp Val Glu Tyr Gly Leu Ala Ser
 405 410 415
 Tyr Ile Trp Thr Gln Asp Val Ser Lys Val Leu Arg Leu Ala Arg Asn

420 425 430
 Ile Glu Ala Gly Met Val Phe Val Asn Thr Gln Asn Val Arg Asp Leu
 435 440 445
 Arg Gln Pro Phe Gly Gly Val Lys Ala Ser Gly Thr Gly Arg Glu Gly
 450 455 460
 Gly Glu Tyr Ser Phe Glu Val Phe Ala Glu Met Lys Asn Val Cys Ile
 465 470 475 480
 Ser Met Gly Asp His Pro Ile Pro Lys Trp Gly Ile
 485 490

<210> 7966
 <211> 110
 <212> PRT
 <213> Enterobacter cloacae

<400> 7966
 Arg Arg Leu Arg Arg Pro Ala Arg Met Gly Glu Pro Glu Asn Cys Arg
 1 5 10 15
 Arg Pro Arg Ala Glu Arg Pro Gln Asp Arg Pro Tyr Leu Gln Ser Asp
 20 25 30
 Ala Gly Gln Leu Ala Asp Gln Arg Ala Gly Leu Arg Cys Ala Ala Gly
 35 40 45
 Arg Tyr Val Leu Pro Arg Arg Gln Arg His Pro Arg Gly Ser Leu Tyr
 50 55 60
 Arg Pro Ala His Arg Ser Gly Ala Gly Leu Arg Ala Gly Lys Thr Ala
 65 70 75 80
 Ala Arg Pro Glu Leu His Asp Leu Arg Arg Leu Gln Arg His Gly Leu
 85 90 95
 Arg His Pro Arg Pro Gly Ala Asp Arg Arg Pro Leu Pro
 100 105 110

<210> 7967
 <211> 114
 <212> PRT
 <213> Enterobacter cloacae

<400> 7967
 Gly Pro Tyr Gly Gln Arg Asn Pro Val Arg Ala Gly Ala Gly Arg Arg
 1 5 10 15
 Arg Glu Asp Leu Leu Thr Pro Leu Ile Lys His Val Thr Val Gly Pro
 20 25 30
 Asp Arg Cys Ala Pro Pro Gly Phe Phe Tyr Leu Glu Pro Ser Met Phe
 35 40 45
 Gly Asn Leu Gly Glu Ala Lys Lys Tyr Leu Gly Gln Ala Ala Lys Met
 50 55 60
 Leu Ile Gly Ile Pro Asp Tyr Asp Asn Tyr Val Glu His Met Lys Thr
 65 70 75 80
 Asn His Pro Asp Lys Pro Tyr Met Thr Tyr Thr Glu Phe Phe Arg Glu
 85 90 95
 Arg Gln Glu Ala Arg Tyr Gly Gly Ser Gly Glu Gly Gly Val Arg Cys
 100 105 110
 Cys

<210> 7968
 <211> 163
 <212> PRT
 <213> Enterobacter cloacae

<400> 7968
 Leu Ala Ile Val Ser Arg Thr Ile Tyr Ile His Phe Met Asp Ala Lys

```

1           5           10           15
Met Asn Asp Thr Thr Asn Ala Leu Leu Leu Asp Asn Gln Leu Cys Phe
20 25 30
Ala Leu Tyr Ser Ala Asn Leu Ala Leu Asn Lys Leu Tyr Arg Gln Leu
35 40 45
Leu Ala Pro Leu Asn Leu Thr Tyr Pro Gln Tyr Leu Val Met Leu Val
50 55 60
Leu Trp Glu Gln Asp Asp Ile Thr Val Ser Asp Ile Gly Glu Arg Leu
65 70 75 80
Phe Leu Asp Ser Ala Thr Leu Thr Pro Leu Leu Lys Arg Leu Glu Ser
85 90 95
Ala Gly Leu Ile Phe Arg Gln Arg Ser Arg Gln Asp Glu Arg Gln Val
100 105 110
Ala Val Thr Leu Ser Asp Ala Gly Arg Ala Leu Gln Gln Gln Ala Val
115 120 125
Thr Ile Pro His Ala Val Gly Cys Ala Ala Gln Cys Asp Thr Asp Thr
130 135 140
Met Leu Ala Leu Lys His Gln Leu Glu Leu Leu Arg Gln Gln Leu His
145 150 155 160
Arg Ala

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<210> 7969
<211> 148
<212> PRT
<213> Enterobacter cloacae

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<400> 7969
Asp Glu Glu Pro Ala Met Ser Leu Glu Lys Val Val Tyr Thr Ala Lys
1 5 10 15
Ala Lys Ala Thr Gly Gly Arg Asp Gly Arg Ala Thr Ser Ser Asp Gly
20 25 30
Val Leu Asp Val Lys Leu Gly Val Pro Lys Glu Met Gly Gly Met Gly
35 40 45
Gly Glu Val Thr Asn Pro Glu Gln Leu Phe Ala Ala Gly Tyr Ser Ala
50 55 60
Cys Phe Leu Gly Ala Met Lys Phe Val Ala Ala Arg Asp Lys Phe Ala
65 70 75 80
Leu Pro Lys Asp Ala Phe Ile Glu Gly Glu Val Gly Ile Gly Pro Leu
85 90 95
Pro Thr Gly Phe Gly Ile Glu Ala Lys Leu Asn Ile His Val Glu Gly
100 105 110
Met Asp Ala Ala Glu Ala Lys Lys Leu Val Asp Ala Ala His Ile Val
115 120 125
Cys Pro Tyr Ser Asn Ala Thr Arg Gly Asn Ile Asp Val Thr Leu Asn
130 135 140
Ile Ile Ala
145

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<210> 7970
<211> 252
<212> PRT
<213> Enterobacter cloacae

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```

<400> 7970
Trp Ile Pro Arg Cys Glu Met Lys Asn Val Gly Asp Leu Met Lys Arg
1 5 10 15
Leu Gln Lys Met Met Pro Ala Asn Val Lys Pro Ala Phe Thr Thr Gly
20 25 30
Glu Glu Leu Leu Ala Trp Gln Lys Glu Gln Gly Lys Ile Arg Ala Ala
35 40 45

```

Ala Leu Ala Arg Glu Asn Arg Ala Met Lys Met Gln Arg Thr Phe Asn
 50 55 60
 Arg Ser Gly Ile Arg Pro Leu His Gln Asn Cys Ser Phe Glu Asn Tyr
 65 70 75 80
 Lys Val Glu Ser Gln Gly Gln Met Asn Ala Leu Asn Gln Ala Arg Gln
 85 90 95
 Tyr Val Asp Glu Phe Asp Gly Asn Ile Ala Ser Phe Ile Phe Ser Gly
 100 105 110
 Lys Pro Gly Thr Gly Lys Asn His Leu Ala Ala Ile Cys Asn Glu
 115 120 125
 Leu Leu Leu Arg Gly Lys Ser Val Leu Ile Ile Thr Val Ala Asp Ile
 130 135 140
 Met Ser Ala Met Lys Asp Thr Phe Ser Asn Arg Glu Thr Ser Glu Glu
 145 150 155 160
 Gln Leu Leu Asn Asp Leu Ser Asn Val Asp Leu Leu Val Ile Asp Glu
 165 170 175
 Ile Gly Val Gln Thr Glu Ser Arg Tyr Glu Lys Val Ile Ile Asn Gln
 180 185 190
 Ile Val Asp Arg Arg Ser Ser Ser Lys Arg Pro Thr Gly Met Leu Thr
 195 200 205
 Asn His Asn Ile Asp Glu Met Thr Arg Leu Leu Gly Glu Arg Val Met
 210 215 220
 Asp Arg Met Lys Leu Gly Asn Ser Leu Tyr Val Ile Phe Asp Trp Asp
 225 230 235 240
 Ser Tyr Arg Ser Arg Val Thr Gly Lys Glu Tyr
 245 250

<210> 7971

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 7971

Ile Ile Met Lys Lys Gln Phe Leu Ile Ser Ile Leu Thr Gly Thr Leu
 1 5 10 15
 Leu Val Thr Gly Ala Ala Gln Ala Ala Ser Trp Gln Glu Ser Leu Ser
 20 25 30
 Ser Ala Ala Ser Glu Leu Thr Lys Glu Ser Gly Thr Ser Gln Gly Gly
 35 40 45
 Leu Ser Ala Ser Ser Leu Thr Gly Leu Leu Ser Asn Ser Ser Gln Ser
 50 55 60
 Leu Ser Ala Gly Thr Met Asn Asn Ala Ala Gly Ile Leu Glu Tyr Cys
 65 70 75 80
 Ala Lys Gln Lys Leu Ala Ser Val Thr Asp Thr Glu Asn Ile Lys Asn
 85 90 95
 Gln Val Leu Gly Lys Leu Gly Leu Asp Thr Gln Glu Gln Lys Ala Asp
 100 105 110
 Thr Asn Tyr Met Asp Gly Ile Gln Gly Leu Leu Asn Ala Gln Asn Gly
 115 120 125
 Gln Gln Leu Asn Leu Ser Thr Leu Gly Asn Ser Ser Leu Ala Lys Gln
 130 135 140
 Val Lys Thr Lys Ala Cys Asp Leu Val Leu Lys Gln Gly Val Asn Phe
 145 150 155 160
 Leu Ser

<210> 7972

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7972

```

Asn Cys Glu Gln Arg Trp Leu Met Thr Ala Phe Thr Leu Arg Pro Thr
1      5      10      15
Arg Ile Asp Asp Val Ala Ala Leu Pro Ala Ile Glu Arg Ala Ala Gly
20      25      30
Gln Arg Phe Arg Asp Val Pro Glu Leu Ala Trp Leu Ala Asp Asn Glu
35      40      45
Val Ile Cys Val Glu Asp His Leu Gly Tyr Ala Gly Arg Gly Leu Ser
50      55      60
Trp Leu Ala Leu Ala Asp Asp Arg Pro Val Gly Phe Ile Leu Ala Glu
65      70      75      80
Ala His Pro Ser Ser Leu Phe Ile Val Glu Leu Ser Val His Leu Asp
85      90      95
Trp Gln Gly Arg Gly Leu Gly Arg Gln Leu Ile Ala Arg Ala Val Ala
100     105     110
His Ala Arg Ser Leu Gly Leu Asn Ser Leu Thr Leu Thr Thr Phe Arg
115     120     125
Asp Val Pro Trp Asn Ala Pro Phe Tyr Arg Arg Leu Gly Phe Glu Met
130     135     140
Leu Thr Thr Leu Thr Pro Glu Leu Arg Gln Lys Arg Glu Glu Glu Thr
145     150     155     160
Ala His Gly Leu Ala Tyr Gly Ser Arg Cys Ala Met Arg Leu Pro Leu
165     170     175

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<210> 7973

<211> 438

<212> PRT

<213> Enterobacter cloacae

<400> 7973

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Asn Gln Asn Arg Thr Ala Gly Leu Arg Ser Met Gly Met Lys Gly Thr
1      5      10      15
Val Phe Ala Val Ala Leu Asn His Gln Ser Gln Arg Ala Ala Trp Ala
20      25      30
Glu Ala Phe Glu Lys Ala Pro Tyr Asn Ala Pro Pro Lys Thr Ala Val
35      40      45
Trp Phe Ile Lys Pro His Asn Thr Val Ile Arg Ala Gly Glu Pro Ile
50      55      60
Pro Phe Pro Gln Gly Glu Thr Val Leu Ser Gly Ala Thr Val Ala Leu
65      70      75      80
Val Val Gly Lys Thr Ala Ser Lys Val Arg Val Glu Glu Ala Ala Ala
85      90      95
Tyr Ile Ala Gly Tyr Ala Leu Ala Asn Glu Ile Ser Leu Pro Glu Glu
100     105     110
Ser Phe Tyr Arg Pro Ala Ile Lys Ala Lys Cys Arg Asp Gly Phe Cys
115     120     125
Pro Leu Gly Glu Pro Val Ala Val Asp Asn Val Asp Asn Leu Thr Ile
130     135     140
Ile Thr Glu Ile Asn Gly Arg Glu Ala Asp His Trp Asn Thr Ala Asp
145     150     155     160
Leu His Arg Asn Ala Ala Glu Leu Leu Ser Ala Leu Ser Glu Phe Ala
165     170     175
Thr Leu Asn Pro Gly Asp Ala Ile Leu Leu Gly Thr Pro Gln Ser Arg
180     185     190
Val Glu Ile Arg Pro Gly Asp Arg Val Arg Ile Leu Ala Glu Gly Phe
195     200     205
Pro Pro Leu Glu Asn Pro Val Val Val Glu Arg Asp Val Thr Ile Ala
210     215     220
Ser Arg Thr Pro Pro His Ala Thr Leu Phe Ala Leu Gly Leu Asn Tyr

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[illegible]

<210> 7974

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 7974

Lys	Gln	Asp	Ile	Ala	Met	Leu	Asp	Lys	His	Thr	His	Thr	Leu	Ile	Ala
1				5					10					15	
His	Arg	Leu	His	Gln	Ala	Glu	Gln	Ser	Arg	Glu	Gln	Ile	Arg	Ala	Ile
			20					25					30		
Ser	Leu	Glu	Tyr	Pro	Glu	Ile	Thr	Ile	Glu	Asp	Ala	Tyr	Ala	Val	Glu
		35					40					45			
Arg	Glu	Trp	Val	Ser	Leu	Lys	Ile	Ala	Glu	Gly	Arg	Val	Leu	Lys	Gly
	50					55					60				
His	Lys	Ile	Gly	Leu	Thr	Ser	Lys	Ala	Met	Gln	Ala	Ser	Ser	Gln	Ile
65					70					75					80
Ser	Glu	Pro	Asp	Tyr	Gly	Ala	Leu	Leu	Asp	Asp	Met	Phe	Phe	His	Asp
			85						90					95	
Gly	Ser	Asp	Ile	Pro	Val	Asp	Arg	Phe	Ile	Val	Pro	Arg	Ile	Glu	Val
			100					105					110		
Glu	Phe	Ala	Phe	Val	Leu	Ala	Lys	Pro	Leu	Arg	Gly	Pro	Asn	Cys	Thr
		115					120					125			
Ile	Phe	Asp	Val	Tyr	Asn	Ala	Thr	Asp	Tyr	Val	Ile	Pro	Ala	Leu	Glu
	130					135					140				
Leu	Ile	Asp	Ala	Arg	Cys	His	Asn	Val	Asp	Pro	Glu	Thr	Gln	Arg	Pro
145					150					155					160
Arg	Lys	Val	Phe	Asp	Thr	Ile	Ser	Asp	Asn	Ala	Ala	Asn	Ala	Gly	Val
				165					170					175	
Ile	Leu	Gly	Gly	Arg	Pro	Ile	Lys	Pro	Asp	Glu	Leu	Asp	Leu	Arg	Trp
		180						185					190		
Ile	Ser	Ala	Leu	Leu	Tyr	Arg	Asn	Gly	Val	Ile	Glu	Glu	Thr	Gly	Val
		195					200					205			
Ala	Ala	Gly	Val	Leu	Asn	His	Pro	Ala	Asn	Gly	Val	Ala	Trp	Leu	Ala

210	215	220
Asn Lys Leu Ala Pro Tyr Asp Val Gln Leu Glu Pro Gly Gln Ile Ile		
225	230	235
Leu Gly Gly Ser Phe Thr Arg Pro Val Ala Ser Arg Gly Asp Thr		240
	245	250
Phe His Val Asp Tyr Gly Asn Met Gly Ser Ile Ser Cys Arg Phe Val		255
	260	265
		270

<210> 7975

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7975

Ala Ala Glu Ile Thr Gln Arg Glu Val Ser Met Gln Ser Glu Glu Arg		
1	5	10
Leu Arg Phe Arg Asp Ala Met Ala Ser Leu Ser Ala Ala Val Asn Val		
	20	25
Val Thr Thr Glu Gly Asp Ala Gly Arg Cys Gly Ile Thr Ala Thr Ala		
	35	40
Val Cys Ser Val Thr Asp Thr Pro Pro Ser Val Met Val Cys Ile Asn		
	50	55
Ala Asn Ser Ala Met Asn Pro Val Phe Gln Gly Asn Gly Lys Leu Cys		
	65	70
Val Asn Val Leu Asn His Glu Gln Glu Ile Met Ala Arg His Phe Ala		
	85	90
Gly Met Thr Gly Met Ala Met Glu Glu Arg Phe Ala Leu Ser Cys Trp		
	100	105
Gln Lys Gly Pro Leu Ala Gln Pro Val Leu Lys Gly Ala Leu Ala Ser		
	115	120
Leu Glu Gly Glu Ile Thr Gln Val Gln Thr Ile Gly Thr His Leu Val		
	130	135
Tyr Leu Val Glu Ile Lys Asn Ile Ile Leu Ser Ser Glu Gly His Gly		
	145	150
Leu Ile Tyr Phe Lys Arg Arg Phe His Pro Val Met Met Glu Met Glu		
	165	170
		175

Ala Ala Val
180

<210> 7976

<211> 773

<212> PRT

<213> Enterobacter cloacae

<400> 7976

Pro Leu Thr Leu Ala Phe Asp Arg Ser Arg Ile Ala Phe Asn His Ser		
1	5	10
Pro Ile Tyr Arg Ala Leu Tyr Ala Arg Gly Ser Gly Thr Ile Ala Pro		
	20	25
Ala Leu Ile Asn Thr Ser Ser Gln Arg Thr Leu Thr Leu Phe Ser Leu		
	35	40
His Lys Lys Pro Gly Leu Thr Met Asp Thr Lys Lys Leu Leu Lys His		
	50	55
Val Pro Trp Ala Ile Leu Gly Ile Ile Gly Ala Phe Cys Leu Ala Val		
	65	70
Val Ala Leu Arg Arg Gly Glu His Val Ser Ala Leu Trp Ile Val Val		
	85	90
Ala Ser Val Ser Val Tyr Leu Val Ala Tyr Arg Tyr Tyr Ser Leu Tyr		
	100	105
		110

Ile Ala Gln Lys Val Met Lys Leu Asp Pro Thr Arg Ala Thr Pro Ala
 115 120 125
 Val Ile Asn Asn Asp Gly Leu Asn Tyr Val Pro Thr Asn Arg Tyr Val
 130 135 140
 Leu Phe Gly His His Phe Ala Ala Ile Ala Gly Ala Gly Pro Leu Val
 145 150 155 160
 Gly Pro Val Leu Ala Ala Gln Met Gly Tyr Leu Pro Gly Thr Leu Trp
 165 170 175
 Leu Leu Ala Gly Val Val Leu Ala Gly Ala Val Gln Asp Phe Met Val
 180 185 190
 Leu Phe Ile Ser Ser Arg Arg Asn Gly Ser Ser Leu Gly Glu Met Ile
 195 200 205
 Lys Glu Glu Met Gly Arg Val Pro Gly Thr Ile Ala Leu Phe Gly Cys
 210 215 220
 Phe Leu Ile Met Ile Ile Leu Ala Val Leu Ala Leu Ile Val Val
 225 230 235 240
 Lys Ala Leu Ala Glu Ser Pro Trp Gly Val Phe Thr Val Cys Ser Thr
 245 250 255
 Val Pro Ile Ala Leu Phe Met Gly Ile Tyr Met Arg Phe Leu Arg Pro
 260 265 270
 Gly Arg Val Gly Glu Val Ser Val Ile Gly Ile Val Leu Leu Val Ala
 275 280 285
 Ser Ile Tyr Phe Gly Gly Val Ile Ala His Asp Pro Tyr Trp Gly Pro
 290 295 300
 Ala Leu Thr Phe Lys Asp Thr Thr Ile Thr Phe Ala Leu Ile Gly Tyr
 305 310 315 320
 Ala Phe Ile Ser Ala Leu Leu Pro Val Trp Leu Ile Leu Ala Pro Arg
 325 330 335
 Asp Tyr Leu Ala Thr Phe Leu Lys Ile Gly Val Ile Val Gly Leu Ala
 340 345 350
 Ile Gly Ile Val Ile Ile Asn Pro Glu Leu Lys Met Pro Ala Val Thr
 355 360 365
 Gln Tyr Ile Asp Gly Thr Gly Pro Leu Trp Lys Gly Ala Leu Phe Pro
 370 375 380
 Phe Leu Phe Ile Thr Ile Ala Cys Gly Ala Val Ser Gly Phe His Ala
 385 390 395 400
 Leu Ile Ala Ser Gly Thr Thr Pro Lys Leu Met Ala Asn Glu Thr Asp
 405 410 415
 Ala Arg Phe Ile Gly Tyr Gly Ala Met Leu Met Glu Ser Phe Val Ala
 420 425 430
 Ile Met Ala Leu Val Ala Ala Ser Ile Ile Glu Pro Gly Leu Tyr Phe
 435 440 445
 Ala Met Asn Thr Pro Pro Ala Gly Leu Gly Ile Thr Met Pro Asn Leu
 450 455 460
 His Glu Met Gly Gly Glu Asn Thr Ala Leu Ile Leu Ala Gln Leu Lys
 465 470 475 480
 Asp Ala Ser Ala His Ala Ala Ala Thr Val Ser Ser Trp Gly Phe Val
 485 490 495
 Ile Ser Pro Glu Gln Ile Met Gln Thr Ala Lys Asp Ile Gly Glu Pro
 500 505 510
 Ser Val Leu Asn Arg Ala Gly Gly Ala Pro Thr Leu Ala Val Gly Ile
 515 520 525
 Ala His Val Phe His Lys Val Leu Pro Trp Ala Asp Met Gly Phe Trp
 530 535 540
 Tyr His Phe Gly Ile Leu Phe Glu Ala Leu Phe Ile Leu Thr Ala Leu
 545 550 555 560
 Asp Ala Gly Thr Arg Ala Gly Arg Phe Met Leu Gln Asp Leu Leu Gly
 565 570 575
 Asn Phe Val Pro Phe Leu Lys Lys Thr Asp Ser Leu Val Ala Gly Val
 580 585 590
 Leu Gly Thr Ala Gly Cys Val Gly Leu Trp Gly Tyr Leu Leu Tyr Gln

<210> 7978

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 7978

```

Tyr Val Gln Arg Pro His Gln His Arg Ser Gly Ala Leu Gly Asp Ser
1          5          10          15
Gln Pro Ala Asp Ala Gly Asp Leu Tyr Arg Gly Gly Asn Gly His Asp
20          25          30
Thr Leu Gly Val Thr Arg Met Gly Val Ile Asp Phe Leu Leu Ala Leu
35          40          45
Ala Gln Asp Met Leu Leu Ala Ala Leu Pro Ala Val Gly Phe Ala Met
50          55          60
Val Phe Asn Val Pro Gln Arg Ala Leu Pro Trp Cys Ala Leu Leu Gly
65          70          75          80
Ala Ile Gly His Gly Ser Arg Met Ile Met Met Thr Ala Gly Phe Asn
85          90          95
Ile Glu Trp Ser Thr Phe Ile Ala Ser Met Leu Val Gly Ser Ile Gly
100         105         110
Ile Gln Trp Ser Arg Trp Tyr Leu Ala His Pro Lys Val Phe Thr Val
115         120         125
Ala Ala Val Ile Pro Met Phe Pro Gly Ile Ser Ala Tyr Thr Ala Met
130         135         140
Ile Ser Ala Val Lys Ile Ser His Phe Gly Tyr Ser Glu Pro Gln Met
145         150         155         160
Ile Leu Leu Leu Ser Asn Phe Leu Lys Ala Ser Ser Ile Val Gly Ala
165         170         175
Leu Ser Ile Gly Leu Ser Ile Pro Gly Leu Trp Leu Tyr Arg Lys Arg
180         185         190
Pro Arg Val
195

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<210> 7979

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7979

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Glu Ser Val Met Ser Ser Arg Ile Leu Thr Thr Ser Ile Ala Gly Ile
1          5          10          15
Asp Ala Phe Met Arg Asp Pro Arg Gly Val Leu Thr His Ala Glu Gly
20          25          30
Gly Thr Leu Ala Val Phe Ala Asp Asn Ala Pro Ala Phe Tyr Ala Val
35          40          45
Thr Pro Glu Arg Leu Ala Gln Leu Leu Glu Ile Glu Ala Lys Leu Ser
50          55          60
Arg Pro Ala Ser Asp Val Met Leu Asp Asn Gln Phe Phe Asp Glu Pro
65          70          75          80
Ala Ser Ala Pro Val Ala Val Pro Met Gly Lys Phe Pro Met Tyr Ala
85          90          95
Gly Trp Gln Pro Asp Ala Asp Phe Gln Arg Gln Ala Ala Leu Trp Gly
100         105         110
Ile Ala Leu Ala Gln Pro Ala Thr Pro Glu Glu Leu Ala Ala Phe Thr
115         120         125
Ala Tyr Trp Gln Ala Glu Gly Lys Val Phe His His Val Gln Trp Gln
130         135         140
Gln Lys Phe Ala Arg Ser Leu Gln Ile Asn Arg Ala Ser Asn Asn Gly
145         150         155         160
Gln Pro Lys Arg Asp Ile Asn Ala Phe Ser Glu Pro Asp Lys Lys Ile
165         170         175

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Pro Asp Gly Phe Arg Gly Ala Lys
180 185

<210> 7980

<211> 778

<212> PRT

<213> *Enterobacter cloacae*

<400> 7980

Ala Ile Ser Arg Leu Ser Val Arg His Asp Glu Asp Leu Leu Leu Ser
1 5 10 15
Glu Leu Met Ser Leu Val Leu Phe Leu Ala Ser Ile Gly Val Tyr Ala
20 25 30
Trp Lys Ala Gly Arg His Thr Trp Trp Phe Val Ala Thr Leu Val Val
35 40 45
Leu Gly Ile Phe Ile Val Leu Asn Ile Thr Leu Tyr Ala Ser Asp Tyr
50 55 60
Phe Thr Gly Asp Gly Ile Asn Asp Ala Val Leu Tyr Thr Leu Thr Asn
65 70 75 80
Ser Leu Thr Gly Ala Gly Val Gly Lys Tyr Ile Leu Pro Gly Leu Gly
85 90 95
Leu Val Val Ala Leu Val Gly Ile Phe Ala Ala Leu Ala Trp Val Leu
100 105 110
Arg Arg Arg Arg His Arg Pro His His Gly Tyr Ser Leu Leu Ala
115 120 125
Leu Cys Leu Ala Leu Ala Ser Val Asp Ala Ser Pro Ala Phe His Gln
130 135 140
Ile Thr Glu Leu Val Lys Ser Gln Ser Arg Asp Gly Asp Pro Asp Phe
145 150 155 160
Ala Ala Tyr Tyr Lys Glu Pro Ser Lys Lys Ile Asp Asn Pro Arg Leu
165 170 175
Asn Leu Val Tyr Ile Tyr Gly Glu Ser Leu Glu Arg Thr Tyr Phe Asp
180 185 190
Asn Asp Ala Phe Pro Asn Leu Thr Pro Glu Leu Gly Ala Leu Lys Asn
195 200 205
Gln Gly Leu Asp Phe Ser His Thr Met Gln Leu Pro Gly Thr Asp Tyr
210 215 220
Thr Ile Ala Gly Met Val Ala Ser Gln Cys Gly Ile Pro Leu Phe Ala
225 230 235 240
Pro Phe Glu Gly Asn Ala Ser Ala Ser Met Ser Ser Phe Phe Pro Gln
245 250 255
Asn Ile Cys Leu Gly Asp Ile Leu Lys Asn Ser Gly Tyr Glu Asn Tyr
260 265 270
Phe Met Gln Gly Ala Asn Leu Arg Phe Ala Gly Lys Asp Val Phe Leu
275 280 285
Lys Ser His Gly Phe Asp His Leu Tyr Gly Ser Glu Glu Leu Lys Thr
290 295 300
Thr Val Ala Asp Pro Ala Tyr Arg Asn Asp Trp Gly Phe Tyr Asp Asp
305 310 315 320
Thr Val Leu Asp Glu Thr Trp Lys Lys Phe Glu Glu Leu Ser Arg Ala
325 330 335
Gly Lys Arg Phe Ser Leu Phe Ala Leu Thr Val Asp Thr His His Pro
340 345 350
Asp Gly Phe Val Ser Arg Thr Cys Lys Arg Gln Gly Tyr Asp Ile Asp
355 360 365
Gly Lys Asn Asn Lys Ser Phe Ser Ala Val Thr Cys Ser Gln Glu His
370 375 380
Ile Ala Ala Leu Ile Glu Lys Ile Lys Ala Ser Pro Tyr Phe Lys Asn
385 390 395 400
Thr Val Ile Val Val Ser Ser Asp His Leu Ala Met Lys Asn Ser Ala
405 410 415

Trp Asp Glu Leu Asn Lys Leu Asp Arg Ser Asn Leu Phe Phe Val Leu
 420 425 430
 Arg Gly Asp Lys Pro Gln Gln Glu Ile Ile Ala Ala Lys Arg Asn Ser
 435 440 445
 Met Asp Asn Gly Ala Thr Val Leu Asp Ile Leu Gly Gly Asp Asn Phe
 450 455 460
 Ile Gly Leu Ser Arg Ser Thr Leu Ser Gly Gln Ser Leu Ser Glu Ile
 465 470 475 480
 Phe Leu Asn Met Lys Glu Lys Ile Leu Ala Trp Lys Pro Asp Ile Ile
 485 490 495
 Arg Leu Trp Asn Phe Pro Lys Glu Ile Lys Asp Phe Thr Ile Asp Gln
 500 505 510
 Asp Lys Lys Met Ile Ala Phe Ser Gly Ser His Phe Arg Leu Pro Leu
 515 520 525
 Leu Leu Arg Val Ser Asp Asn Arg Val Glu Pro Leu Pro Glu Ser Glu
 530 535 540
 Tyr Ser Ala Pro Leu Arg Phe Gln Leu Ala Glu Phe Ala Pro Arg Asp
 545 550 555 560
 Asn Phe Val Trp Val Asp Lys Cys Tyr Lys Met Gly Gln Leu Trp Ser
 565 570 575
 Gln Gln Leu Ser Leu Ser Thr Asp Trp Cys Val Ser Gln Gly Gln Leu
 580 585 590
 Gly Gly Glu Gln Ala Val Gln His Val Asp Lys Pro Gln Trp Gln Gly
 595 600 605
 Lys Thr Ala Phe Lys Asp Thr Val Ile Asp Thr Ala Arg Tyr Gln Arg
 610 615 620
 Asn Val Asp Leu Leu Lys Ile Val Asp Asn Asp Ile Arg Tyr Lys Ala
 625 630 635 640
 Asp Ser Phe Ile Phe Asn Val Ala Gly Ala Pro Glu Glu Val Lys Gln
 645 650 655
 Phe Ser Gly Ile Ser Arg Pro Glu Ser Trp Gly Arg Trp Ser Asn Ala
 660 665 670
 Gln Leu Gly Asp Glu Val Lys Ile Glu Tyr Thr His Pro Leu Pro Glu
 675 680 685
 Lys Phe Asp Leu Val Ile Thr Ala Arg Ala Phe Gly Pro Asn Ala Asn
 690 695 700
 Arg Pro Ile Pro Val Arg Val Gly Asp Lys Glu Gln Thr Leu Thr Leu
 705 710 715 720
 Ser Asn Asp Val Thr Thr Ser Thr Leu His Phe Asp Asn Pro Thr Arg
 725 730 735
 Ser Asn Thr Leu Val Ile Val Pro Pro Asp Pro Gln Ser Thr Asn Glu
 740 745 750
 Gly Asn Ile Leu Gly His Ala Pro Arg Lys Leu Gly Ile Gly Met Val
 755 760 765
 Glu Ile Lys Ile Val Ser Ser Ala Gly
 770 775

<210> 7981

<211> 380

<212> PRT

<213> *Enterobacter cloacae*

<400> 7981

Gly Arg Ser Gly Arg Pro Ala Pro Gly Glu Arg Arg Gly Val Trp Pro
 1 5 10 15
 Gly Val Val His Leu Asp Pro Gly Arg Gln Ser Ala Ala Ser Gly
 20 25 30
 Ala Gln His Arg Ser Gly His Gly Val Arg Gln His Pro Glu Arg Ala
 35 40 45
 Arg Pro Ala Pro Ala Val Trp Arg Arg Glu Gly Leu Arg His Arg Ala
 50 55 60


```

Arg Arg Arg Arg Val Gln Leu Arg Gly Ile Arg Gly Asp Glu Glu Arg
65      70      75      80
Val His Leu His Gly Arg Pro Ser Asp Ser Lys Val Gly Asp Leu Lys
      85      90      95
Met Gly Lys Leu Ala Leu Ala Ala Lys Ile Thr His Val Pro Ser Met
      100      105      110
Tyr Leu Ser Glu Leu Pro Gly Lys Asn His Gly Cys Arg Gln Gly Ala
      115      120      125
Ile Asp Gly His Lys Glu Ile Ser Lys Arg Cys Arg Glu Leu Gly Val
      130      135      140
Asp Thr Ile Ile Val Phe Asp Thr His Trp Leu Val Asn Ser Ala Tyr
145      150      155      160
His Ile Asn Cys Ala Asp His Phe Ser Gly Val Tyr Thr Ser Asn Glu
      165      170      175
Leu Pro His Phe Ile Arg Asp Met Thr Tyr Asp Tyr Asp Gly Asn Pro
      180      185      190
Glu Leu Gly Gln Leu Ile Ala Asp Glu Ala Val Lys Leu Gly Val Arg
      195      200      205
Ala Lys Ala His Asn Ile Pro Ser Leu Lys Leu Glu Tyr Gly Thr Leu
210      215      220
Val Pro Met Arg Tyr Met Asn Ala Asp Lys His Phe Lys Val Val Ser
225      230      235      240
Ile Ser Ala Phe Cys Thr Val His Asp Phe Ala Asp Ser Arg Arg Leu
      245      250      255
Gly Glu Ala Ile Ile Ser Ala Ile Glu Lys Tyr Asp Gly Thr Val Ala
      260      265      270
Val Leu Ala Ser Gly Ser Leu Ser His Arg Phe Ile Asp Asp Gln Arg
      275      280      285
Ala Glu Glu Gly Met Asn Ser Tyr Thr Arg Glu Phe Asp Arg Gln Met
290      295      300
Asp Glu Arg Val Val Lys Leu Trp Arg Glu Gly Gln Phe Lys Glu Phe
305      310      315      320
Cys Ser Met Leu Pro Glu Tyr Ala Asp Tyr Cys Tyr Gly Glu Gly Asn
      325      330      335
Met His Asp Thr Val Met Leu Leu Gly Met Leu Gly Trp Asp Lys Tyr
      340      345      350
Asp Gly Lys Val Glu Phe Leu Thr Glu Leu Phe Ala Ser Ser Gly Thr
      355      360      365
Gly Gln Val Asn Ala Val Phe Pro Leu Pro Ala
370      375      380

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<210> 7982

<211> 130

<212> PRT

<213> *Enterobacter cloacae*

<400> 7982

```

Gly Val Val Met Pro His Phe Ile Ala Glu Cys Thr Asn Asn Ile Arg
1      5      10      15
Glu Gln Ala Asp Leu Pro Gly Leu Phe Ala Lys Val Asn Glu Ala Leu
20      25      30
Ala Ala Thr Gly Ile Phe Pro Leu Gly Gly Ile Arg Ser Arg Ala His
35      40      45
Trp Leu Asp Thr Trp Gln Met Ala Asp Gly Lys His Asp Tyr Ala Phe
50      55      60
Val His Met Thr Leu Lys Ile Gly Ala Gly Arg Ser Leu Glu Ser Arg
65      70      75      80
Glu Glu Val Gly Glu Met Leu Phe Ala Leu Ile Lys Thr His Phe Ala
      85      90      95
Glu Leu Met Ala Gly Arg Tyr Leu Ala Leu Ser Phe Glu Leu Asp Glu
100      105      110

```

Leu His Pro Thr Leu Asn Tyr Lys Gln Asn Asn Val His Ala Leu Phe
 115 120 125

Lys
 130

<210> 7983

<211> 339

<212> PRT

<213> *Enterobacter cloacae*

<400> 7983

Ser Lys Arg Pro Gly Ser Pro Gln Ala Cys Leu Thr Thr Arg Arg Thr
 1 5 10 15
 Ala Trp Arg Gly Trp Arg Thr Asn Ser Arg His Thr Thr Cys Ser Leu
 20 25 30
 Ser Gln Asp Lys Ser Ser Ser Ala Ala Arg Leu Pro Ala Arg Leu Pro
 35 40 45
 Pro Ala Glu Ala Thr Pro Ser Thr Thr Thr Ala Thr Trp Ala Pro
 50 55 60
 Ser Ala Ala Ala Leu Cys Lys Glu Met Thr Met Gln Asn Ala Phe Lys
 65 70 75 80
 Ala Ala Leu Lys Ala Gly Arg Pro Gln Ile Gly Leu Trp Leu Gly Leu
 85 90 95
 Thr Ser Ser Tyr Ser Ala Glu Leu Leu Ala Gly Ala Gly Phe Asp Trp
 100 105 110
 Leu Leu Ile Asp Gly Glu His Ala Pro Asn Ser Val Gln Thr Ile Leu
 115 120 125
 Thr Gln Leu Gln Ala Ile Ala Pro Tyr Pro Ser Gln Pro Val Val Arg
 130 135 140
 Pro Ser Trp Asn Asp Pro Val Gln Ile Lys Gln Leu Leu Asp Val Gly
 145 150 155 160
 Ala Gln Thr Leu Leu Val Pro Met Val Gln Asn Ala Asp Glu Ala Arg
 165 170 175
 Leu Ala Val Ser Ala Thr Arg Tyr Pro Pro Ala Gly Ile Arg Gly Val
 180 185 190
 Gly Ser Ala Leu Ala Arg Ala Ser Arg Trp Asn Arg Ile Pro Glu Tyr
 195 200 205
 Leu His Gln Ala Asn Asp Ala Met Cys Val Leu Val Gln Ile Glu Thr
 210 215 220
 Arg Glu Ala Leu Lys Asn Leu Pro Gln Ile Leu Asp Val Glu Gly Val
 225 230 235 240
 Asp Gly Val Phe Ile Gly Pro Ala Asp Leu Ser Ala Asp Met Gly Phe
 245 250 255
 Ala Gly Asn Pro Gln His Pro Glu Val Gln Ala Ala Ile Glu Gln Ala
 260 265 270
 Ile Ala Gln Ile Leu Ser Ala Gly Lys Ala Pro Gly Ile Leu Met Ala
 275 280 285
 Asn Glu Gln Leu Ala Lys Arg Tyr Leu Glu Leu Gly Ala Leu Phe Val
 290 295 300
 Ala Val Gly Val Asp Thr Thr Leu Leu Ala Arg Ser Ala Glu Ala Leu
 305 310 315 320
 Ala Ala Arg Phe Thr Asp Val Thr Thr Ala Val Asp Asn Asn Lys Ser
 325 330 335
 Val Tyr

<210> 7984

<211> 455

<212> PRT

<213> *Enterobacter cloacae*

<400> 7984

Thr Tyr Asp Val Glu Arg Asn Met Thr Thr Ser Thr Leu His Asn Lys
 1 5 10 15
 Ala Val Glu His Arg Val Ile Asn Lys Leu Phe Arg Arg Leu Ile Val
 20 25 30
 Phe Leu Phe Ile Leu Phe Val Phe Ser Phe Leu Asp Arg Ile Asn Ile
 35 40 45
 Gly Phe Ala Gly Leu Thr Met Gly Lys Asp Leu Gly Leu Thr Ser Thr
 50 55 60
 Met Phe Gly Leu Ala Ala Thr Leu Phe Tyr Val Thr Tyr Val Leu Cys
 65 70 75 80
 Gly Ile Pro Ser Asn Ile Met Leu Ala Lys Ile Gly Ala Arg Arg Trp
 85 90 95
 Ile Ala Gly Ile Met Val Val Trp Gly Ile Ala Ser Thr Cys Thr Met
 100 105 110
 Phe Ala Thr Ser Pro Glu Thr Leu Tyr Val Leu Arg Met Leu Val Gly
 115 120 125
 Ile Ala Glu Ala Gly Phe Leu Pro Gly Ile Leu Val Tyr Leu Thr Trp
 130 135 140
 Trp Phe Pro Ala Tyr His Arg Ala Arg Ala Asn Ala Leu Phe Met Ile
 145 150 155 160
 Ala Met Pro Val Thr Met Met Leu Gly Ser Ile Leu Ser Gly Tyr Ile
 165 170 175
 Leu Ala Met Asp Gly Leu Trp Asn Leu Lys Gly Trp Gln Trp Leu Phe
 180 185 190
 Leu Leu Glu Gly Leu Pro Ser Val Val Leu Gly Val Val Thr Trp Phe
 195 200 205
 Tyr Leu Asn Asp Thr Pro Asp Gln Ala Thr Trp Leu Asp Asp Asp Glu
 210 215 220
 Lys Gln Ala Leu Lys Thr Met Ile Ala Arg Glu Gln Glu Leu Ala Ile
 225 230 235 240
 Ala His Ala Ala Thr Pro Arg Ser Thr Leu Arg Glu Val Leu Thr Pro
 245 250 255
 Ala Val Leu Leu Tyr Thr Leu Ala Tyr Phe Cys Leu Thr Asn Thr Leu
 260 265 270
 Ser Ala Ile Asn Ile Trp Thr Pro Gln Ile Leu Gln Ser Phe Asn Thr
 275 280 285
 Gly Ser Ser Asn Ile Val Ile Gly Leu Leu Ala Ala Ile Pro Gln Phe
 290 295 300
 Cys Thr Ile Leu Gly Met Ile Trp Trp Ser Arg Arg Ser Asp Arg Leu
 305 310 315 320
 Lys Glu Arg Lys Lys His Thr Ile Leu Pro Tyr Leu Phe Ala Ala Ala
 325 330 335
 Gly Trp Met Leu Ala Ser Ala Thr Asp His Ser Leu Ile Gln Leu Leu
 340 345 350
 Gly Ile Ile Met Ala Ser Thr Gly Ser Phe Thr Ala Met Ala Ile Phe
 355 360 365
 Trp Thr Thr Pro Asp Gln Val Ile Ser Leu Gln Ser Arg Ala Val Ala
 370 375 380
 Leu Ala Val Ile Asn Ala Ile Gly Asn Val Gly Ser Ala Val Ser Pro
 385 390 395 400
 Leu Leu Ile Gly Ile Leu Arg Asp Ala Thr Gly Ser Phe Ser Ser Gly
 405 410 415
 Leu Trp Phe Val Ala Gly Leu Leu Val Val Gly Ala Leu Val Leu Thr
 420 425 430
 Arg Ile Pro Met Thr Arg Arg Glu Ser Leu Glu Arg Glu Pro Asp Ile
 435 440 445
 Ala Ala Gln Lys Ile His
 450 455

<210> 7985

<211> 314
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 7985

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Gly Ala Ala Met Cys Gln Ser Pro Ile Thr Asn Ile Asp Ile Ser Lys
1      5      10      15
Glu Tyr Asp Glu Ser Leu Gly Thr Asp Asp Val His Tyr Gln Ser Phe
      20      25      30
Ala Arg Met Ala Ala Phe Phe Gly Arg Asp Met Gln Ala His Arg His
      35      40      45
Asp Gln Tyr Phe Gln Met His Phe Leu Asp Thr Gly Gln Ile Glu Leu
      50      55      60
Gln Leu Asp Asp His Arg Tyr Ser Val Gln Ala Pro Leu Phe Val Leu
      65      70      75      80
Thr Pro Pro Ser Val Pro His Ala Phe Ile Thr Glu Ser Asp Ser Asp
      85      90      95
Gly His Val Leu Thr Val Arg Glu Asp Leu Ile Trp Pro Leu Leu Glu
      100      105      110
Val Leu Tyr Pro Gly Thr Arg Glu Ala Phe Gly Leu Pro Gly Ile Cys
      115      120      125
Leu Ser Leu Ala Asp Lys Pro Asp Glu Leu Ala Ala Leu Lys His Tyr
      130      135      140
Trp Gln Leu Ile Ala Arg Glu Ser Thr Glu Gln Leu Pro Gly Arg Glu
      145      150      155      160
His Thr Leu Val Leu Leu Ala Gln Ala Val Phe Thr Leu Leu Leu Arg
      165      170      175
Asn Ala Lys Leu Asp Asp His Ala Ser Gly Gly Met Arg Gly Glu Leu
      180      185      190
Lys Leu Phe Gln Arg Phe Asn Gln Leu Thr Asp Ala His Tyr His Glu
      195      200      205
His Trp Thr Val Pro Glu Tyr Ala Ser Glu Leu His Leu Thr Glu Ser
      210      215      220
Arg Leu Thr Asp Ile Cys Arg Arg Phe Ala Asn Arg Ser Pro Lys Arg
      225      230      235      240
Leu Ile Phe Asp Arg Gln Leu Arg Glu Ala Arg Arg Leu Leu Leu Phe
      245      250      255
Ser Asp Ser Thr Val Ser Glu Ile Ala Trp Gln Leu Gly Phe Lys Asp
      260      265      270
Pro Ala Tyr Phe Ala Arg Phe Phe Asn Arg Leu Thr Gly Cys Ser Pro
      275      280      285
Ser Ala Tyr Arg Ala Gln Lys Val Pro Val Ser Pro Val Pro Leu Thr
      290      295      300
Pro Ala Leu Ser Gln Met Glu Arg Glu
305      310

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<210> 7986
 <211> 562
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 7986

```

Ser Leu Ala Lys Ser Thr Cys Arg Cys Pro Asn Arg Pro Phe Thr Phe
1      5      10      15
Arg Pro Ser His Ala Ser Ile Lys Gln Gln Lys Gln Asn Ile Asn Leu
      20      25      30
Thr Thr Ile Phe Arg Tyr Glu Val Pro Met Lys Pro Glu Asp Phe Arg
      35      40      45
Ala Asp Ala Lys Arg Pro Leu Thr Gly Glu Glu Tyr Leu Asn Ser Leu
      50      55      60
Gln Asp Gly Arg Glu Ile Tyr Ile Tyr Gly Glu Arg Val Lys Asp Val

```

65					70					75					80
Thr	Thr	His	Pro	Ala	Phe	Arg	Asn	Ala	Ala	Ala	Ser	Ile	Ala	Gln	Met
				85						90				95	
Tyr	Asp	Ala	Leu	His	Lys	Pro	Asp	Met	Gln	Asp	Thr	Leu	Cys	Trp	Gly
			100					105				110			
Thr	Asp	Thr	Gly	Ser	Gly	Gly	Tyr	Thr	His	Lys	Phe	Phe	Arg	Val	Ala
		115					120					125			
Lys	Ser	Ala	Asp	Asp	Leu	Arg	Gln	Gln	Arg	Asp	Ala	Ile	Ala	Glu	Trp
		130				135					140				
Ser	Arg	Leu	Ser	Tyr	Gly	Trp	Met	Gly	Arg	Thr	Pro	Asp	Tyr	Lys	Ala
145					150					155				160	
Ala	Phe	Gly	Cys	Ala	Leu	Gly	Ala	Asn	Pro	Ala	Phe	Tyr	Gly	Gln	Phe
			165						170					175	
Glu	Gln	Asn	Ala	Arg	Asn	Trp	Tyr	Thr	Arg	Ile	Gln	Glu	Thr	Gly	Leu
		180						185				190			
Tyr	Phe	Asn	His	Ala	Ile	Val	Asn	Pro	Pro	Ile	Asp	Arg	His	Lys	Pro
		195					200					205			
Ala	Asp	Glu	Val	Lys	Asp	Val	Tyr	Ile	Lys	Leu	Glu	Lys	Glu	Thr	Asp
		210				215					220				
Ala	Gly	Ile	Ile	Val	Ser	Gly	Ala	Lys	Val	Val	Ala	Thr	Asn	Ser	Ala
225					230					235				240	
Leu	Thr	His	Tyr	Asn	Met	Ile	Gly	Phe	Gly	Ser	Ala	Gln	Val	Met	Gly
				245				250						255	
Glu	Asn	Pro	Asp	Phe	Ala	Leu	Met	Phe	Val	Ala	Pro	Met	Asp	Ala	Glu
			260				265					270			
Gly	Val	Lys	Leu	Ile	Ser	Arg	Ala	Ser	Tyr	Glu	Met	Val	Ala	Gly	Ala
		275				280						285			
Thr	Gly	Ser	Pro	Tyr	Asp	Tyr	Pro	Leu	Ser	Ser	Arg	Phe	Asp	Glu	Asn
		290				295					300				
Asp	Ala	Ile	Leu	Val	Met	Asp	His	Val	Leu	Ile	Pro	Trp	Glu	Asn	Val
305					310					315				320	
Leu	Ile	Tyr	Arg	Asp	Phe	Asp	Arg	Cys	Arg	Arg	Trp	Thr	Met	Glu	Gly
				325				330						335	
Gly	Phe	Ala	Arg	Met	Tyr	Pro	Leu	Gln	Ala	Cys	Val	Arg	Leu	Ala	Val
			340					345				350			
Lys	Leu	Asp	Phe	Ile	Thr	Ala	Leu	Leu	Lys	Lys	Ser	Leu	Glu	Cys	Thr
		355				360						365			
Gly	Thr	Leu	Glu	Phe	Arg	Gly	Val	Gln	Ala	Asp	Leu	Gly	Glu	Val	Val
		370				375				380					
Ala	Trp	Arg	Asn	Met	Phe	Trp	Ala	Leu	Ser	Asp	Ser	Met	Cys	Ser	Glu
385					390					395				400	
Ala	Thr	Pro	Trp	Val	Asn	Gly	Ala	Tyr	Leu	Pro	Asp	His	Ala	Ala	Leu
				405				410						415	
Gln	Thr	Tyr	Arg	Val	Met	Ala	Pro	Met	Ala	Tyr	Ala	Lys	Ile	Lys	Asn
			420					425				430			
Ile	Ile	Glu	Arg	Asn	Val	Thr	Ser	Gly	Leu	Ile	Tyr	Leu	Pro	Ser	Ser
		435				440						445			
Ala	Arg	Asp	Leu	Asn	Asn	Pro	Gln	Ile	Asp	Gln	Tyr	Leu	Ala	Lys	Tyr
450					455					460					
Val	Arg	Gly	Ser	Asn	Gly	Met	Asp	His	Val	Glu	Arg	Ile	Lys	Ile	Leu
465					470					475				480	
Lys	Leu	Met	Trp	Asp	Ala	Ile	Gly	Ser	Glu	Phe	Gly	Gly	Arg	His	Glu
				485				490						495	
Leu	Tyr	Glu	Ile	Asn	Tyr	Ser	Gly	Ser	Gln	Asp	Glu	Ile	Arg	Leu	Gln
		500						505				510			
Cys	Leu	Arg	Gln	Ala	Gln	Ser	Ser	Gly	Asn	Met	Asp	Lys	Met	Met	Ala
		515				520						525			
Met	Val	Asp	Arg	Cys	Met	Ser	Glu	Tyr	Asp	Gln	His	Gly	Trp	Thr	Val
		530				535				540					
Pro	His	Leu	His	Asn	Asn	Thr	Asp	Ile	Asn	Met	Leu	Asp	Lys	Leu	Leu
545					550					555				560	

Lys

<210> 7987

<211> 568

<212> PRT

<213> Enterobacter cloacae

<400> 7987

Phe Leu Pro Leu Thr Leu Ile Cys Pro Phe Ser Asp Pro Pro Leu Trp
 1 5 10 15
 Asn Arg Met Val Ala His Gly Asp Ala His Val Leu His Leu Arg Glu
 20 25 30
 Tyr Leu Glu Ala Val Leu Ala Ala Phe Ala Pro Gly Ala Gly Gly Leu
 35 40 45
 His Ala Ala Lys Arg Leu Ala Gln Val Ala His Val Leu Gly Val Asp
 50 55 60
 Glu His His Ala Arg Phe Asp Val Ala Arg Gln Thr Gln His Phe Ala
 65 70 75 80
 Asp Val Leu Gly Pro Asp Val Arg Arg Gln Ala Ile Leu His Val Val
 85 90 95
 Arg Gln Ala Gln Ala Phe Arg Phe Val Leu Lys Arg Gln Gln Ala Gly
 100 105 110
 His Arg Pro Glu Asp Leu Phe Leu Arg His Ala His Ala Val Ile Asp
 115 120 125
 Ile Arg Gln His Gly Arg Ala Gln Glu Val Ala Ala Phe Gln Val Arg
 130 135 140
 Arg Gln Ile Gly Arg Phe Val Arg Ala Ala Arg Gln Gln Gly Cys Pro
 145 150 155 160
 Leu Phe Asn Ala Glu Ala Asp Ile Ala Gly Asp Phe Phe Pro Val Leu
 165 170 175
 Leu Ala Asp Glu Arg Ala Asn Leu Gly Val Trp Ile Gly Arg Val Ala
 180 185 190
 His Ala Gln Ala Val Gly Ala Leu Gly Lys Ala Phe Asp Glu Leu Arg
 195 200 205
 Val Asp Ala Leu Leu Asp Glu Asp Ala Arg Ala Gly Gly Ala Ala Phe
 210 215 220
 Ala Val Asp Gly Glu Asn Gly Glu Gln Gly Gly Val Gln Arg Ala Leu
 225 230 235 240
 Asp Val Arg Val Phe Lys Asn Gln His Arg Arg Phe Ala Ala Gln Leu
 245 250 255
 His Arg Ile Leu Leu Gln Pro Gly Val Phe His Asp Val Thr Pro Gly
 260 265 270
 Gly Gly Ala Ala Gly Glu Gly Asp Gly Ala His Val Met Met Thr His
 275 280 285
 Gln Arg Val Ala Arg Arg Gly Ala Ile Ala Leu His His Val Glu His
 290 295 300
 Ala Arg Arg Asn Ala Arg Phe Glu Gly Gln Leu Ala Gln Thr Val Gly
 305 310 315 320
 Gly Gln Arg Gly Glu Phe Arg His Leu Gln His Arg Gly Val Thr Gln
 325 330 335
 Arg Glu Thr Gly Arg Asp Leu Pro Gly Gly Gly His Lys Arg His Val
 340 345 350
 Pro Arg Arg His Gln Arg Ala Asp Thr His Arg Leu His Gln Gly Val
 355 360 365
 Val Glu His Leu Val Val Asp Arg Val Gly Phe Ala Val His Leu Leu
 370 375 380
 Ala His Leu Gly Glu Glu Glu Glu Val Val Arg Gly Ala Arg Asn Glu
 385 390 395 400
 His Val Phe Gly Leu Val Asp Arg Gln Ala Gly Val Gly Gly Leu His
 405 410 415

Arg Gly Asn Val Arg His Val Leu Val Asn Gln Ile Pro Gln Ala Thr
 420 425 430
 His Gln Ala Arg Thr Leu Leu His Arg Gln Val Gly Pro Phe Arg Glu
 435 440 445
 Arg Leu Phe Gly Gly Gly Asn Gly Leu Met Asp Phe Gly Phe Ala Pro
 450 455 460
 Gly Gly Tyr Phe Ser Gln His Leu Ala Gly Gly Arg Val Ser Gly Leu
 465 470 475 480
 Glu Val Leu Thr Ser Gly Asp Val Phe Pro Val Asp Pro Val Val Asn
 485 490 495
 Leu Phe His Phe Ala Val Ser Ser Leu Thr Ile Arg Phe Thr Arg Arg
 500 505 510
 Pro Thr Pro Ser Thr Ser Thr Thr Ser Ser Pro Gly Thr Thr Ser
 515 520 525
 Asp Ser Pro Phe Gly Val Pro Val Ala Ile Met Ser Pro Gly Cys Arg
 530 535 540
 Val Met Lys Ser Leu Arg Tyr Ala Ile Arg Asn Gly Met Leu Lys Met
 545 550 555 560
 Arg Ser Ala Val Val Pro Ser
 565

<210> 7988

<211> 596

<212> PRT

<213> Enterobacter cloacae

<400> 7988

Thr Trp Lys Pro Thr Tyr Cys Arg Ala Gly Arg Arg Val Lys Thr Leu
 1 5 10 15
 Asn Ser Arg Met Ile Phe Val Lys Phe Ser Leu Ser Arg Pro Lys Ile
 20 25 30
 Leu Tyr Leu Ser Glu Glu Arg Glu Asn Met Leu Asn Arg Ile Lys Ile
 35 40 45
 Val Thr Ser Leu Leu Leu Val Leu Ala Ile Phe Gly Leu Leu Gln Leu
 50 55 60
 Thr Ser Gly Gly Leu Phe Phe Asn Ala Leu Lys His Asp Lys Glu Asn
 65 70 75 80
 Phe Thr Ile Leu Gln Thr Ile Arg Gln Gln Gln Ser Thr Leu Asn Gly
 85 90 95
 Ser Trp Val Ala Leu Leu Gln Thr Arg Asn Thr Leu Asn Arg Ala Gly
 100 105 110
 Ile Arg Tyr Met Met Asp Gln Asn Ile Gly Ser Gly Ser Thr Val
 115 120 125
 Ala Glu Leu Met Gln Ile Ala Ser Ala Ser Leu Lys Gln Ala Glu Lys
 130 135 140
 Asn Trp Ala Asp Tyr Glu Ala Leu Pro Arg Asp Pro Arg Gln Ser Asp
 145 150 155 160
 Ala Ala Ala Leu Glu Ile Lys Arg Asn Tyr Asp Ile Tyr His Gly Ala
 165 170 175
 Leu Ala Glu Leu Ile Gln Leu Leu Gly Ala Gly Lys Ile Asn Glu Phe
 180 185 190
 Phe Asp Gln Pro Thr Gln Ser Tyr Gln Asp Gly Phe Glu Lys Gln Tyr
 195 200 205
 Val Thr Tyr Leu Gln Gln Asn Asp Ala Leu Tyr Gln Thr Ala Val Glu
 210 215 220
 Asp Ser Asn Ser Ser Tyr Arg Gln Ala Ile Trp Val Leu Ile Ser Val
 225 230 235 240
 Leu Ala Ala Val Leu Val Val Ile Val Ala Val Trp Leu Gly Ile Arg
 245 250 255
 Gln Ala Leu Ile Ser Pro Leu Asn Arg Leu Ile Asp Ser Ile Arg His
 260 265 270

Ile Ala Ser Gly Asp Leu Val Lys Arg Ile Asp Val Glu Gly Ser Asn
 275 280
 Glu Met Gly Glu Leu Ala Asp Ser Leu Arg His Met Gln Gly Glu Leu
 290 300
 Val Arg Thr Val Gly Asp Val Arg Asn Gly Ala Asn Ala Ile Tyr Ser
 305 310 315 320
 Gly Ala Ser Glu Ile Ser Met Gly Asn Asn Asp Leu Ser Ser Arg Thr
 325 330 335
 Glu Gln Gln Ala Ala Ser Leu Glu Glu Thr Ala Ala Ser Met Glu Gln
 340 345 350
 Leu Thr Ala Thr Val Lys Gln Asn Ala Glu Asn Ala Arg Gln Ala Ser
 355 360 365
 Asn Leu Ala Leu Ser Ala Ser Glu Thr Ala Gln Lys Gly Gly Lys Val
 370 375 380
 Val Asp Asn Val Val Gln Thr Met Arg Asp Ile Ala Gly Ser Ser Gln
 385 390 395 400
 Lys Ile Ala Asp Ile Ile Ser Val Ile Asp Gly Ile Ala Phe Gln Thr
 405 410 415
 Asn Ile Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg Ala Gly Glu
 420 425 430
 Gln Gly Arg Gly Phe Ala Val Val Ala Gly Glu Val Arg Asn Leu Ala
 435 440 445
 Gln Arg Ser Ala Gln Ala Ala Arg Glu Ile Lys Ser Leu Ile Glu Asp
 450 455 460
 Ser Val Gly Arg Val Glu Ile Gly Ser Thr Leu Val Glu Ser Ala Gly
 465 470 475 480
 Glu Thr Met Gly Glu Ile Val Asn Ala Val Thr Arg Val Thr Asp Ile
 485 490 495
 Met Gly Glu Ile Ala Ser Ala Ser Asp Glu Gln Ser Arg Gly Ile Asp
 500 505 510
 Gln Val Gly Leu Ala Val Ala Glu Met Asp Arg Val Thr Gln Gln Asn
 515 520 525
 Ala Ser Leu Val Glu Glu Ser Ala Ala Ala Ala Ala Leu Glu Glu
 530 535 540
 Gln Ala Ser Arg Leu Thr Gln Ala Val Ala Val Phe Arg Ile Gln Gln
 545 550 555 560
 Glu Gln Met Lys Ala Arg Glu Phe Ala Ser Ala Lys Ser Val Ala Ala
 565 570 575
 Pro Val Val Ala Arg Lys Pro Ala Thr Ala Asp Ala Gly Asp Asn Trp
 580 585 590
 Glu Thr Phe
 595

<210> 7989

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 7989

Cys Lys Gly Lys Val Met His Asp Ser Leu Thr Ile Ala Leu Gln
 1 5 10 15
 Ala Arg Glu Ala Ala Met Gly Tyr Phe Arg Pro Ile Val Lys Arg His
 20 25 30
 Asn Leu Thr Glu Gln Gln Trp Arg Ile Val Arg Val Leu Ala Glu His
 35 40 45
 Pro Ser Met Asp Phe His Asp Leu Ala Phe Arg Thr Cys Ile Leu Arg
 50 55 60
 Pro Ser Leu Thr Gly Ile Leu Thr Arg Met Glu Arg Asp Gly Leu Val
 65 70 75 80
 Leu Arg Leu Lys Pro Val Asn Asp Gln Arg Lys Leu Tyr Val Ser Leu
 85 90 95

Thr Lys Glu Gly Asn Ala Leu Tyr Gln Arg Ala Gln Ala Val Glu
 100 105 110
 Glu Ala Tyr Gln Gln Ile Glu Ala Glu Tyr Thr Pro Glu Lys Met Thr
 115 120 125
 Gln Leu Thr Ala Leu Leu Glu Glu Phe Ile Glu Leu Gly Asn Arg His
 130 135 140
 Ile Ala Ala Arg Asp Glu Glu
 145 150

<210> 7990

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7990

Phe Cys Val Val Val Trp Phe Cys Pro Ala Pro Phe Leu Ala Ala Lys
 1 5 10 15
 Ala Gln Leu Ile Phe Asn Val Ile Glu Ser Phe Ser Gln Val Ile Phe
 20 25 30
 Gly Ile Ile Asn Met Ile Met Arg Leu Ala Pro Ile Gly Ala Phe Gly
 35 40 45
 Ala Met Ala Phe Thr Ile Gly Lys Tyr Gly Val Gly Thr Leu Val Gln
 50 55 60
 Leu Gly Gln Leu Ile Val Cys Phe Tyr Ile Thr Cys Ile Leu Phe Val
 65 70 75 80
 Val Val Val Leu Gly Ser Ile Ala Arg Ala Thr Gly Phe Ser Ile Phe
 85 90 95
 Lys Phe Ile Arg Tyr Ile Arg Glu Glu Leu Leu Ile Val Leu Gly Thr
 100 105 110
 Ser Ser Ser Glu Ser Ala Leu Pro Arg Met Leu Asp Lys Met Glu Lys
 115 120 125
 Leu Gly Cys Arg Lys Ser Val Val Gly Leu Val Ile Pro Thr Gly Tyr
 130 135 140
 Ser Phe Asn Leu Asp Gly Thr Ser Ile Tyr Leu Thr Met Ala Ala Val
 145 150 155 160
 Phe Ile Ala Gln Ala Thr Asn Ser His Met Asp Ile Phe His Gln Ile
 165 170 175
 Thr Leu Leu Val Val Leu Leu Leu Ser Ser Lys Gly Ala Ala Gly Val
 180 185 190
 Thr Gly Ser Gly Phe Ile Val Leu Ala Ala Thr Ile Ser Ala Val Gly
 195 200 205
 His Leu Pro Val Ala Gly Leu Ala Leu Ile Leu Gly Ile Asp Arg Phe
 210 215 220
 Met Ser Glu Ala Arg Ala Leu Thr Asn Leu Val Gly Asn Gly Val Ala
 225 230 235 240
 Thr Ile Val Val Ala Lys Trp Val Lys Glu Leu Asp His Lys Lys Leu
 245 250 255
 Asn Asp Thr Leu Asn Asn Arg Thr Ser Glu Asp Lys Thr Pro Gly Leu
 260 265 270
 Ser Ser

275

<210> 7991

<211> 501

<212> PRT

<213> Enterobacter cloacae

<400> 7991

Ser Gly Val His Met Gln Gly Thr Lys Ile Arg Leu Leu Thr Gly Gly
 1 5 10 15
 Leu Leu Met Met Ala Ala Ala Ser Tyr Val Gln Ala Asp Ala Leu Gln

<210> 7992
 <211> 274
 <212> PRT
 <213> Enterobacter cloacae

<400> 7992
 Leu Ser Asp Glu Ser Arg Lys Ala Ile Pro Tyr Asn Arg Thr Ser Glu
 1 5 10 15
 Met Lys Ser Glu Gln Val Ile Gln Arg Leu Ser Thr Thr Pro Glu Ala
 20 25 30
 Ser Ile Glu Asn Leu Gln Glu His Arg Tyr Trp Leu Gln Cys Glu Arg
 35 40 45
 Ala Tyr Thr Tyr Gln Pro Ile Tyr Arg Thr Asp Gly Arg Leu Met Ala
 50 55 60
 Ile Glu Val Leu Thr Val Val Thr His Pro Ser Asn Pro Ser Gln Arg
 65 70 75 80
 Ile Ala Pro Asp Arg Tyr Phe Ala Glu Val Ala Val Arg Gln Arg Ile
 85 90 95
 Asp Val Leu Glu Glu Gln Leu Arg Met Leu Ala Thr Lys Gln Ala Phe
 100 105 110
 Phe Lys Gln His Gly Ile Leu Ala Ser Val Asn Val Asp Gly Pro Thr
 115 120 125
 Leu Met Ala Leu Arg Gln Asn Ala Thr Leu Gln Ala Leu Ile Ala Thr
 130 135 140
 Leu Pro Trp Met Arg Phe Glu Leu Val Glu His Val Gln Leu Pro Gln
 145 150 155 160
 Asp Ser Ser Phe Ala Ser Met Cys Glu Phe Gly Pro Leu Trp Leu Asp
 165 170 175
 Asp Phe Gly Thr Gly Met Ala Asn Phe Ser Ala Leu Ser Glu Val Arg
 180 185 190
 Tyr Asp Tyr Ile Lys Val Ala Arg Asp Leu Phe Ile Met Leu Arg Gln
 195 200 205
 Thr Pro Glu Gly Arg Asn Leu Phe Thr Met Leu Leu Gln Leu Met Asn
 210 215 220
 Arg Tyr Cys Gln Gly Val Ile Val Glu Gly Val Glu Thr Leu Glu Glu
 225 230 235 240
 Trp Arg Asp Val Gln Asn Ser Pro Ala Ala Ala Gln Gly Tyr Phe
 245 250 255
 Leu Ser Arg Pro Val Pro Met Asp Thr Leu Glu Lys Val Ile Thr Ser
 260 265 270
 Leu

<210> 7993
 <211> 254
 <212> PRT
 <213> Enterobacter cloacae

<400> 7993
 Ile Met Ser Glu Arg Ile Ala Leu Val Thr Gly Gly Ser Arg Gly Leu
 1 5 10 15
 Gly Lys Asn Ala Val Leu Lys Leu Ala Glu Gly Thr Gly Ile Ile
 20 25 30
 Leu Thr Trp Asn Asn Ser Gln Gln Glu Ala Gln Glu Val Val Arg Glu
 35 40 45
 Ile Glu Gly Lys Gly Gly Lys Ala Ala Ala Leu Gln Leu Asn Val Gly
 50 55 60
 Asp Thr Ala Ser Phe Ser Arg Phe Ala Gln Lys Val Lys Asp Thr Leu
 65 70 75 80
 Lys His Val Trp Gln Arg Asp Thr Phe Asp Tyr Leu Val Asn Asn Ala

Gly	Thr	Gly	Leu	85	Tyr	Ala	Pro	Tyr	Thr	90	Glu	Thr	Thr	Glu	Ala	95	Gln	Phe
Asp	Asp	Ala	Met	100	Asn	Ile	His	Phe	105	Lys	Gly	Pro	Phe	Phe	110	Leu	Thr	Gln
Gln	Leu	Leu	Pro	115	Leu	Ile	Lys	Asp	120	Gly	Gly	Arg	Ile	Leu	Asn	Val	Ser	
Ser	Gly	Leu	Ala	130	Arg	Phe	Thr	Gln	135	Pro	Gly	Ser	Gly	Thr	Tyr	Ala	Ala	
Met	Lys	Gly	Ala	145	Met	Glu	Val	Leu	150	Thr	Arg	Tyr	Gln	Ala	Lys	Glu	Leu	
Gly	Ala	Arg	Gly	165	Ile	Ser	Val	Asn	170	Ile	Ile	Ala	Pro	Gly	Ala	Ile	Glu	
Thr	Asp	Phe	Gly	180	Gly	Gly	Arg	Val	185	Arg	Asp	Asn	Ala	Glu	Leu	Asn	Gln	
Leu	Leu	Ala	Ser	195	Gln	Thr	Ala	Leu	200	Gly	Arg	Val	Gly	Leu	Pro	Asp	Asp	
Ile	Gly	Asp	Ala	210	Ile	Ala	Ala	Leu	215	Leu	Ser	Asp	Lys	Leu	Gly	Trp	Met	
Asn	Ala	Gln	Arg	225	Ile	Glu	Val	Ser	230	Gly	Gly	Met	Phe	Leu				240
				245					250									

<210> 7994

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 7994

Phe	Val	Thr	Ser	5	Pro	Phe	Ile	Glu	Phe	10	Phe	Leu	Lys	Lys	Cys	Leu	Cys	
Arg	Ile	Pro	Leu	20	Arg	Tyr	Ser	Gln	Arg	25	Ser	Lys	Thr	Met	Arg	Val	Ile	
Met	Phe	Asp	Arg	35	Gln	Ser	Leu	Phe	40	Ile	His	Gly	Ala	Met	Tyr	Ser	Leu	
Gln	Lys	Leu	Ile	50	Pro	Lys	Ile	Asp	55	Met	Thr	Gly	Thr	Arg	Gln	Thr	Asp	
Glu	Leu	Trp	Ala	65	Gln	Leu	Ser	Ala	70	Ser	Pro	Ser	Ala	Ile	Val	Met	Ile	
Asp	Gly	Tyr	Leu	85	Ile	Arg	Asp	Asn	90	Gly	Val	Ala	Leu	Leu	Glu	Glu	Ile	
Met	Asp	Arg	Phe	100	Pro	Thr	Ser	Arg	105	Val	Val	Leu	Val	Leu	Thr	Lys	Lys	
Glu	Arg	Arg	Trp	115	Val	Glu	Gln	Met	120	Phe	Gln	Arg	Asn	Val	Val	Ala	Ile	
Ile	Pro	Arg	Asn	130	Ala	Asn	Pro	Glu	135	Arg	Phe	Ser	Ala	Val	Leu	Asp	Ser	
Val	Ser	Arg	Gly	145	Met	Val	Cys	Phe	150	Pro	Gly	Glu	Trp	Leu	Lys	Gln	His	
Thr	Ser	Gln	Asp	165	Glu	Leu	Ala	Val	170	Leu	Ser	Glu	Arg	Gln	Arg	Glu	Val	
Leu	Lys	Leu	Leu	180	Ala	Ala	Gly	Glu	185	Ser	Asn	Lys	Glu	Ile	Gly	Arg	Asn	
Leu	Asn	Ile	Ser	195	Ala	Ala	Thr	Val	200	Lys	Ala	His	Leu	Glu	Thr	Leu	Phe	
Arg	Arg	Leu	Asp	210	Val	Lys	Asn	Arg	215	Thr	Gln	Ala	Ala	Met	Tyr	Tyr	Thr	
Arg	Ala	Thr	Ala	225														

<210> 7995

<211> 743

<212> PRT

<213> Enterobacter cloacae

<400> 7995

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Ile Asp Asp Leu Pro Gln Phe Thr Ala Glu Arg His Arg Leu Pro Ala
1      5      10      15
Gly Pro Val Ser Ala Ala Pro Pro Gly Ser Phe Pro Pro Arg Leu Ala
      20      25      30
Leu Lys Ser Ser Thr Leu Asn Pro Ile Thr Glu Gln Tyr Ala Gln Arg
      35      40      45
Arg Met Arg Ala Ser Phe Thr Tyr Phe Asn Arg Thr Ala Phe Met Thr
      50      55      60
Asn Pro Leu Leu Thr Pro Phe Ser Leu Pro Pro Phe Ser Lys Ile Leu
      65      70      75      80
Pro Glu His Val Val Pro Ala Val Thr Gln Ser Leu Asp Asn Cys Arg
      85      90      95
Ala Ala Val Glu Ser Val Val Ala Gln Gly Gly Pro Tyr Thr Trp Glu
      100      105      110
Asn Leu Cys Gln Pro Leu Ala Glu Val Asp Asp Val Leu Gly Arg Ile
      115      120      125
Phe Ser Pro Val Ser His Leu Asn Ser Val Lys Asn Ser Pro Glu Leu
      130      135      140
Arg Glu Ala Tyr Glu Gln Thr Leu Pro Leu Leu Ser Glu Tyr Ser Thr
      145      150      155      160
Trp Val Gly Gln His Glu Gly Leu Tyr Lys Ala Tyr Arg Asp Leu Arg
      165      170      175
Asp Gly Asp His Tyr Ala Glu Leu Asn Thr Ala Gln Lys Lys Ser Val
      180      185      190
Asp Asn Ala Leu Arg Asp Phe Glu Leu Ser Gly Ile Gly Leu Pro Lys
      195      200      205
Glu Lys Gln Val Arg Tyr Gly Glu Ile Ala Ala Arg Leu Ser Glu Leu
      210      215      220
Gly Asn Gln Tyr Ser Asn Asn Val Leu Asp Ala Thr Met Gly Trp Thr
      225      230      235      240
Lys Leu Ile Thr Asp Glu Ser Glu Leu Ala Gly Met Pro Glu Ser Ala
      245      250      255
Leu Ala Ala Ala Lys Ala Gln Ala Glu Ala Lys Glu Gln Glu Gly Phe
      260      265      270
Leu Leu Thr Leu Asp Ile Pro Ser Tyr Leu Pro Val Met Thr Tyr Cys
      275      280      285
Asp Asn Gln Ala Leu Arg Glu Glu Met Tyr Arg Ala Tyr Ser Thr Arg
      290      295      300
Ala Ser Asp Gln Gly Pro Asn Ala Gly Lys Trp Asp Asn Ser Pro Val
      305      310      315      320
Met Ala Glu Ile Leu Ala Leu Arg His Glu Leu Ala Gln Leu Leu Gly
      325      330      335
Phe Asp Ser Tyr Ala Asp Lys Ser Leu Ala Thr Lys Met Ala Glu Asn
      340      345      350
Pro Gln Gln Val Leu Asp Phe Leu Thr Asp Leu Ala Lys Arg Ala Arg
      355      360      365
Pro Gln Gly Glu Lys Glu Leu Ala Gln Leu Arg Ala Phe Ala Lys Ala
      370      375      380
Glu Phe Gly Val Asp Glu Leu Gln Pro Trp Asp Ile Ala Tyr Tyr Ser
      385      390      395      400
Glu Lys Gln Lys Gln His Leu Tyr Ser Ile Ser Asp Glu Gln Leu Arg
      405      410      415
Pro Tyr Phe Pro Glu Asn Lys Ala Val Asn Gly Leu Phe Glu Val Val
      420      425      430
Lys Arg Ile Tyr Gly Ile Thr Ala Lys Glu Arg Thr Asp Ile Asp Val
      435      440      445
Trp His Pro Asp Val Arg Phe Phe Glu Leu Tyr Asp Asp Lys Asn Glu

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450 455 460
 Leu Arg Gly Ser Phe Tyr Leu Asp Leu Tyr Ala Arg Glu Asn Lys Arg
 465 470 475 480
 Gly Gly Ala Trp Met Asp Asp Cys Val Gly Gln Met Arg Lys Ala Asp
 485 490 495
 Gly Ser Leu Gln Lys Pro Val Ala Tyr Leu Thr Cys Asn Phe Asn Arg
 500 505 510
 Pro Val Ser Gly Lys Pro Ala Leu Phe Thr His Asp Glu Val Ile Thr
 515 520 525
 Leu Phe His Glu Phe Gly His Gly Leu His His Met Leu Thr Arg Ile
 530 535 540
 Glu Thr Ala Gly Val Ala Gly Ile Ser Gly Val Pro Trp Asp Ala Val
 545 550 555
 Glu Leu Pro Ser Gln Phe Met Glu Asn Trp Cys Trp Glu Pro Asp Ala
 560 565 570 575
 Leu Ala Phe Ile Ser Gly His Tyr Glu Thr Gly Glu Pro Leu Pro Lys
 580 585 590
 Glu Leu Leu Asp Lys Met Leu Ala Ala Lys Asn Tyr Gln Ala Ala Met
 595 600 605
 Phe Ile Leu Arg Gln Leu Glu Phe Gly Leu Phe Asp Phe Arg Leu His
 610 615 620
 Ala Glu Phe Ser Pro Glu Gln Gly Ala Lys Ile Leu Glu Thr Leu Ala
 625 630 635
 Glu Ile Lys Lys Gln Val Ala Val Ile Pro Gly Pro Thr Trp Gly Arg
 645 650 655
 Phe Pro His Ala Phe Ser His Ile Phe Ala Gly Gly Tyr Ala Ala Gly
 660 665 670
 Tyr Tyr Ser Tyr Leu Trp Ala Asp Val Leu Ala Ala Asp Ala Phe Ser
 675 680 685
 Arg Phe Glu Glu Glu Gly Ile Phe Asn Arg Glu Thr Gly Gln Ser Phe
 690 695 700
 Leu Asp Asn Ile Leu Thr Arg Gly Gly Ser Glu Glu Pro Met Glu Leu
 705 710 715
 Phe Lys Arg Phe Arg Gly Arg Glu Pro Gln Leu Asp Ala Met Leu Glu
 725 730 735
 His Tyr Gly Ile Lys Gly
 740

<210> 7996

<211> 154

<212> PRT

<213> *Enterobacter cloacae*

<400> 7996

Ser Val Arg Ile Leu Lys Arg Glu Pro Asp Arg Leu Leu Val Ile Leu
 1 5 10 15
 Ser Leu Asn Cys Leu Ser Gly His Trp Gly Ala Val Ala Gln Glu Pro
 20 25 30
 Cys Phe Val Gly Gly Arg Arg Gly Gly Cys Met Ile Ser Thr Val Ala
 35 40 45
 Leu Phe Trp Ala Leu Cys Val Val Cys Ile Val Asn Met Ala Arg Tyr
 50 55 60
 Phe Ser Ser Leu Arg Ala Leu Leu Val Val Leu Arg Gly Cys Asp Pro
 65 70 75 80
 Leu Leu Tyr Gln Tyr Val Asp Gly Gly Gly Phe Phe Thr Ser His Gly
 85 90 95
 Gln Pro Ser Lys Gln Met Arg Leu Val Gly Tyr Ile Tyr Tyr Gln Arg
 100 105 110
 Tyr Arg Asp His His Asp Glu Glu Phe Ile Arg Arg Cys Glu Arg Leu
 115 120 125
 Arg Arg Gln Phe Ile Leu Thr Ser Ala Leu Cys Gly Leu Val Val Val

130 135 140
 Ser Met Ile Ala Leu Met Ile Trp His
 145 150

<210> 7997
 <211> 429
 <212> PRT
 <213> Enterobacter cloacae

<400> 7997
 Asn Gly Phe Val Ile Ser Phe Tyr Ala Gly Ala Thr Thr Glu Glu Thr
 1 5 10 15
 Leu Gln Ser Ala Val Asn Glu Glu Asp Phe Asp Val Glu Arg Phe
 20 25 30
 Asp Ala Val Val Ile Gly Ala Gly Ala Ala Gly Met Phe Cys Ala Ala
 35 40 45
 Met Ala Gly Gln Ala Gly Arg Arg Val Leu Leu Leu Asp Asn Gly Lys
 50 55 60
 Lys Pro Gly Arg Lys Ile Leu Met Ser Gly Gly Gly Arg Cys Asn Phe
 65 70 75 80
 Thr Asn Leu Tyr Val Glu Pro Ala Ala Tyr Leu Ser Gln Asn Arg His
 85 90 95
 Phe Cys Lys Ser Ala Leu Ala Arg Tyr Thr Gln Trp Asp Phe Ile Glu
 100 105 110
 Leu Val Gly Lys His Gly Ile Ala Trp His Glu Lys Thr Leu Gly Gln
 115 120 125
 Leu Phe Cys Asp Asp Ser Ala Gln Gln Ile Val Asp Met Leu Val Ala
 130 135 140
 Glu Cys Glu Lys Gly Gly Val Val Met Arg Leu Arg Thr Glu Val Leu
 145 150 155 160
 Asp Val Ala Arg Asp Glu Gln Gly Tyr Thr Leu Gln Leu Asn Gly Glu
 165 170 175
 Thr Val Ser Ala Asp Asn Leu Val Ile Ala Ser Gly Gly Leu Ser Met
 180 185 190
 Pro Gly Leu Gly Ala Ser Pro Phe Gly Tyr Lys Ile Ala Glu Gln Phe
 195 200 205
 Gly Leu Lys Val Leu Pro Thr Arg Ala Gly Leu Val Pro Phe Thr Leu
 210 215 220
 His Lys Pro Leu Leu Glu Gln Leu Gln Thr Leu Ser Gly Val Ser Val
 225 230 235 240
 Pro Ser Val Ile Thr Ala Glu Asp Gly Thr Val Phe Arg Glu Asn Leu
 245 250 255
 Leu Phe Thr His Arg Gly Leu Ser Gly Pro Ala Val Leu Gln Ile Ser
 260 265 270
 Ser Tyr Trp Gln Pro Gly Glu Phe Val Ser Val Asn Leu Val Pro Asp
 275 280 285
 Cys Asp Leu Asp Ala Phe Leu Asn Glu Gln Arg Ala Ala His Pro Asn
 290 295 300
 Gln Ser Leu Lys Asn Thr Leu Ala Met Gln Leu Pro Lys Arg Leu Val
 305 310 315 320
 Glu Cys Leu Gln Val Leu Gly Gln Ile Pro Asp Val Ala Leu Lys Gln
 325 330 335
 Leu Asn Ser Arg Glu Gln Glu Thr Leu Val Glu Thr Leu Thr Asn Trp
 340 345 350
 Arg Val Gln Pro Asn Gly Thr Glu Gly Tyr Arg Thr Ala Glu Val Thr
 355 360 365
 Leu Gly Gly Val Asp Thr Asn Glu Leu Ser Ser Arg Thr Met Glu Ala
 370 375 380
 Arg Asn Val Pro Gly Leu Tyr Phe Ile Gly Glu Val Met Asp Val Thr
 385 390 395 400
 Gly Trp Leu Gly Gly Tyr Asn Phe Gln Trp Ala Trp Ala Ser Ala Trp

Ala Cys Ala Gln Ala Leu Ala Asp Val Arg Gly Gln
 405 410 415
 420 425

<210> 7998
 <211> 287
 <212> PRT
 <213> Enterobacter cloacae

<400> 7998
 Pro Ala Ala Val Gln Lys Ser Leu Trp Ser Cys Ser Asn Ala Ser Val
 1 5 10 15
 Ala Ala Ser Arg Ser Trp Met Arg Cys Trp Ser Ile Thr Glu Ser Lys
 20 25 30
 Ala Asp Cys Tyr Val Lys Ile Cys Leu Val Asp Glu Thr Gly Ala Gly
 35 40 45
 Asp Gly Ala Leu Ser Val Leu Ala Ala Arg Trp Gly Leu Glu His Asp
 50 55 60
 Glu Asp Asn Leu Met Ala Leu Val Met Thr Pro Glu His Leu Glu Leu
 65 70 75 80
 Arg Lys Arg Asp Gly Pro Lys Leu Gly Gly Ile Phe Val Asp Phe Val
 85 90 95
 Gly Gly Ala Met Ala His Arg Arg Lys Phe Gly Gly Gly Arg Gly Glu
 100 105 110
 Ala Val Ala Lys Ala Val Gly Ile Lys Gly Ser Tyr Leu Pro Asp Val
 115 120 125
 Val Asp Ala Thr Ala Gly Leu Gly Arg Asp Ala Phe Val Leu Ala Ser
 130 135 140
 Val Gly Cys Arg Val Arg Met Leu Glu Arg Asn Pro Val Val Ala Ala
 145 150 155 160
 Leu Leu Asp Asp Gly Leu Thr Arg Gly Tyr Ala Asp Pro Glu Ile Gly
 165 170 175
 Ser Trp Leu Gln Glu Arg Leu Gln Leu Ile His Ala Ser Ser Leu Thr
 180 185 190
 Ala Leu Thr Asp Ile Thr Pro Arg Pro Gln Val Val Tyr Leu Asp Pro
 195 200 205
 Met Phe Pro His Lys Gln Lys Ser Ala Leu Val Lys Lys Glu Met Arg
 210 215 220
 Val Phe Gln Ser Leu Val Gly Pro Asp Leu Asp Ala Asp Gly Leu Leu
 225 230 235 240
 Glu Pro Ala Arg Gln Leu Ala Thr Lys Arg Val Val Val Lys Arg Pro
 245 250 255
 Asp Tyr Ala Pro Pro Leu Ala Asp Val Ala Thr Thr Asn Ala Val Thr
 260 265 270
 Thr Lys Gly His Arg Phe Asp Ile Tyr Ser Gly Thr Pro Glu
 275 280 285

<210> 7999
 <211> 284
 <212> PRT
 <213> Enterobacter cloacae

<400> 7999
 Gly Thr Ile Met Ala Arg Gly Arg Arg Leu Lys Ser Tyr Leu Asp Tyr
 1 5 10 15
 Glu Asn Ala Leu Gly Asp Gly Ile Gly Val Gly Tyr Gly Gln Ser Tyr
 20 25 30
 Gln Pro Trp Leu Arg Ala Gln Asp Val Lys Ser Arg Gly Asn Arg Ser
 35 40 45
 Ile Val Phe Gly Leu Lys Thr Phe Arg Asn His His Leu Leu Ser Ser
 50 55 60

Val Glu Ser Asn Phe Phe Tyr Leu Ala Glu Phe Asn Asp Ser Val Ile
 65 70 75 80
 Asp Ile Arg Glu Gln Phe Pro Leu Phe Pro Leu Arg Leu Thr Gln Gln
 85 90 95
 Ile Ala Asn His Leu His Phe Gln His Pro Met Val Arg Gly Val Arg
 100 105 110
 Gly Val Pro Val Glu Val Leu Asn Val Met Thr Thr Asp Phe Leu Leu
 115 120 125
 Thr Leu Arg Thr Pro Glu Gly Gly Leu Arg Tyr Lys Ala Ile Ala Val
 130 135 140
 Lys His Asn Glu Ser Ile Pro Glu Arg Glu Ala Gln Lys Leu Glu Ile
 145 150 155 160
 Glu Arg Met Phe Trp Gln Leu Ile Asp Val Glu Phe Gln Ile Tyr Val
 165 170 175
 Gly Ser Glu Leu Asn Asn Val Val Gly Lys Asn Ile Cys Trp Ala Thr
 180 185 190
 Ser Val Leu Arg Asp Gly Ser Glu Phe Tyr Asp Lys Tyr Pro Leu Asp
 195 200 205
 Lys Ile Leu Trp Lys Leu Lys Pro Asp Val Tyr Pro Ile Val Gly Leu
 210 215 220
 Arg Ala Met Ile Ser Ser Ile Phe Gly Val Asp Ala Gln Glu Ala Met
 225 230 235 240
 Met Leu Leu Gln Ala Met Ile Gly Leu Lys Met Ile Asn Val Asp Leu
 245 250 255
 Ser Tyr Pro Ile Leu Glu Thr Gly Leu Ile Lys Ile Ile Ser Asn Asp
 260 265 270
 His Tyr Ile Gly Leu Asn Ala Asn Gly Tyr Tyr
 275 280

<210> 8000

<211> 315

<212> PRT

<213> *Enterobacter cloacae*

<400> 8000

Gly Arg Arg Ile Met Asn Leu Ile Arg Arg Val Ser Ala Ile Tyr Lys
 1 5 10 15
 Glu Gln Glu Leu Pro Glu Tyr Arg Gly Asn Pro Leu Ile Glu Ala Leu
 20 25 30
 Pro Glu Ala Leu Thr Glu Asp Glu Val Leu Leu Glu Met Ser Tyr Phe
 35 40 45
 Pro Glu Ile Asp Glu Lys Ile Arg Trp Thr Ala Pro Ala Asn Val Arg
 50 55 60
 Glu Gln Tyr Val Glu Arg Ile Lys Lys Phe Arg Cys Pro Gln Thr Asn
 65 70 75 80
 Leu Ile Gln Ala Tyr Lys Met Ile Leu Arg Ala Leu Arg Glu Ser Tyr
 85 90 95
 Ala Ala Arg Asn Pro Leu Lys Ser Gly Thr Ile Gln Tyr Leu His Tyr
 100 105 110
 Tyr Gly Asn Glu Arg Pro Asp Ile Glu Pro Glu Ser Gly Tyr Phe Lys
 115 120 125
 Ser Gln Ala Glu Ile Ile Thr Ile Val Gly Met Ser Gly Ser Gly Lys
 130 135 140
 Thr Thr Met Ile Glu Gln Val Met Asp His Phe Pro Gln Ile Ile Glu
 145 150 155 160
 His Ser Ser Tyr Lys Gly Val Phe Pro Gly Phe Ser Lys Gln Ile Val
 165 170 175
 Trp Val Lys Ile Asn Cys Pro Tyr Asn Ser Ser Val Arg Asp Leu Cys
 180 185 190
 Glu Glu Ile Leu Gln Lys Leu Asp Asp Ala Ile Gly Ile Glu Arg Thr
 195 200 205

Thr Pro Glu Ile Arg Asn Gly Ala Leu Ala Arg Gln Ile Ala Gln Arg
 210 215 220
 Ile Lys Ser Ser Phe Leu Gly Ile Leu Val Ile Asp Glu Met Gln Arg
 225 230 235 240
 Leu Lys Phe Ser Arg Thr Gly Gly Glu Ser Lys Leu Ile Asp Phe Leu
 245 250 255
 His Glu Ile Val Asp Ser Met Gly Val Ser Met Val Phe Cys Gly Asn
 260 265 270
 His Pro Phe Asp Glu Thr Leu Thr Lys Lys Met Arg Ile Ala Arg Arg
 275 280 285
 Ala Glu Ser Gly Gly Tyr Met Lys Ile Lys Asn Val Arg Tyr Asp Ser
 290 295 300
 Gln Asp Trp Gln Ser Phe Ile His Tyr Leu Trp
 305 310 315

<210> 8001

<211> 695

<212> PRT

<213> Enterobacter cloacae

<400> 8001

Thr Ile Val Leu Glu Ala Ser Ser Ser Gly Lys Gly Thr Thr Met Thr
 1 5 10 15
 Lys Thr Thr Arg Val Ile Ser Trp Thr Ala Gly Ile Phe Leu Leu Leu
 20 25 30
 Ile Val Val Leu Ile Ile Ile Ala Thr Phe Asp Trp Asn Arg Leu
 35 40 45
 Lys Pro Thr Ile Asn Gln Lys Val Ser Thr Glu Leu Asn Arg Pro Phe
 50 55 60
 Ala Ile Arg Gly Asp Leu Gly Val Val Trp Glu Arg Gln Lys Glu Glu
 65 70 75 80
 Thr Gly Trp Arg Ser Trp Val Pro Trp Pro His Val His Ala Asp Asp
 85 90 95
 Ile Ile Leu Gly Asn Pro Pro Asp Ile Pro Glu Val Thr Met Ile His
 100 105 110
 Leu Pro Arg Val Glu Ala Thr Leu Ala Pro Leu Ala Leu Leu Thr Lys
 115 120 125
 Thr Val Tyr Leu Pro Trp Ile Lys Leu Gln Gln Pro Asp Ala Arg Leu
 130 135 140
 Ile Arg Leu Ser Glu Lys Asn Asn Asn Trp Thr Phe Asp Leu Ala Ser
 145 150 155 160
 Ser Gly Asp Lys Asp Gln Asn Ala Gln Pro Ser Ser Trp Ser Phe Arg
 165 170 175
 Leu Asp Asn Ile Leu Phe Asp Arg Gly Arg Ile Ala Ile Asp Asp Lys
 180 185 190
 Val Ser Lys Ala Asp Val Glu Ile Leu Val Asp Pro Leu Gly Lys Pro
 195 200 205
 Leu Pro Phe Ser Glu Val Thr Gly Ser Lys Ala Lys Gly Asp Asp Ser
 210 215 220
 Lys Ala Gly Asp Tyr Val Phe Gly Leu Thr Ala Lys Gly Arg Tyr Asn
 225 230 235 240
 Gly Gln Pro Leu Thr Gly Lys Gly Lys Ile Gly Gly Met Leu Ala Leu
 245 250 255
 Arg Ser Glu Gly Thr Pro Phe Pro Val Gln Ala Asp Phe Arg Ser Gly
 260 265 270
 Asn Thr Arg Val Ala Phe Val Gly Thr Val Asn Asp Pro Met Asn Met
 275 280 285
 Gly Gly Val Asp Leu Gln Leu Lys Phe Ala Gly Asp Ser Leu Gly Glu
 290 295 300
 Leu Tyr Asp Leu Thr Gly Val Leu Leu Pro Asp Thr Pro Pro Phe Glu
 305 310 315 320

Thr Asp Gly His Leu Val Ala Lys Ile Asn Thr Glu Lys Ser Ser Val
 325 330 335
 Phe Asp Tyr Arg Gly Phe Asn Gly Arg Ile Gly Asp Ser Asp Ile His
 340 345 350
 Gly Thr Leu Thr Tyr Thr Thr Gly Lys Pro Arg Pro Lys Leu Glu Gly
 355 360 365
 Asp Val Glu Ser Arg Gln Leu Arg Leu Ala Asp Leu Gly Pro Leu Ile
 370 375 380
 Gly Val Asp Ser Gly Lys Gly Thr Lys Ser Lys Glu Val Lys Lys Asp
 385 390 395 400
 Val Gln Pro Ala Gly Lys Val Leu Pro Tyr Asp Arg Phe Glu Thr Asp
 405 410 415
 Lys Trp Asp Val Met Asp Ala Asp Val Arg Phe Lys Gly Arg Lys Ile
 420 425 430
 Glu His Gly Ser Thr Leu Pro Leu Ser Asn Leu Ser Thr His Ile Ile
 435 440 445
 Leu Lys Asn Ala Asp Leu Arg Leu Gln Pro Leu Lys Phe Gly Met Ala
 450 455 460
 Gly Gly Thr Ile Ser Ser Asn Ile His Leu Glu Gly Asp Lys Lys Pro
 465 470 475 480
 Met Gln Gly Arg Ala Glu Ile Gln Ala Arg Arg Leu Lys Leu Lys Glu
 485 490 495
 Leu Met Pro Asp Val Glu Leu Met Gln Lys Thr Leu Gly Glu Met Asn
 500 505 510
 Gly Asp Ala Asp Ile Arg Gly Thr Gly Asn Ser Val Ala Ala Leu Leu
 515 520 525
 Gly Ser Gly Asn Gly Asn Leu Lys Leu Leu Met Asn Asp Gly Leu Val
 530 535 540
 Ser Arg Asn Leu Met Glu Ile Leu Gly Leu Asn Val Gly Asn Phe Ile
 545 550 555 560
 Ile Gly Gln Ile Phe Gly Asp Asp Glu Val Arg Val Asn Cys Ala Ala
 565 570 575
 Ala Asn Leu Asp Leu Val Asn Gly Val Ala Arg Pro Gln Ile Phe Ala
 580 585 590
 Phe Asp Thr Glu Asn Ala Val Ile Asn Val Thr Gly Thr Ala Ser Met
 595 600 605
 Ala Ser Glu Gln Leu Asp Leu Thr Ile Asp Pro Glu Ser Lys Gly Ile
 610 615 620
 Arg Ile Ile Thr Leu Arg Ser Pro Leu Tyr Val Arg Gly Thr Phe Lys
 625 630 635 640
 Asp Pro Gln Ala Gly Val Lys Ala Gly Pro Leu Ile Ala Arg Gly Ala
 645 650 655
 Val Ala Ala Ala Leu Ala Thr Leu Val Thr Pro Ala Ala Ala Leu Leu
 660 665 670
 Ala Leu Ile Ser Pro Ser Glu Gly Glu Ala Asn Gln Cys Arg Thr Ile
 675 680 685
 Leu Ser Gln Met Lys Lys
 690 695

<210> 8002

<211> 567

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (554)

<400> 8002

Thr Gln Met Asp Ile Ile Arg Asn Ser Val Trp Leu Ser Gln Gly Thr
 1 5 10 15

Asp Leu Leu Ala Glu Gly Leu Tyr Arg Val Leu Asp Phe Asp Arg Lys
 20 25 30
 Val Asp Leu Leu Ile Leu Phe Lys Ile Lys Ser Glu Arg Thr Gly Lys
 35 40 45
 Pro Ile Pro Phe Ser Phe Ser Met Phe Lys Tyr Tyr Ile Glu Ser Asn
 50 55 60
 Ser Ile Thr Cys Lys Asp Tyr Ile Tyr Pro Ser Tyr Met Leu Val Asp
 65 70 75 80
 Glu Lys Glu Leu Thr Asp Lys Asp Arg Gly Arg Arg Asp Glu Asn Tyr
 85 90 95
 Asn Ile Ile Lys Asp Leu Val Asp Asp Arg Met Phe Leu Phe Asp Tyr
 100 105 110
 Ala Leu His Lys Lys Ser His Leu Leu Met Asp Tyr Ser Arg Asn Lys
 115 120 125
 Lys Ile Ser Gln Tyr Thr Ile Arg Thr Leu Leu Ala Leu Tyr Trp Arg
 130 135 140
 His Gly Gln Asp Ile Tyr Ala Leu Leu Pro Ala Phe Ser Asn Cys Gly
 145 150 155 160
 Ala Ala Gly Lys Ser Arg Ile Lys His Glu Ile Lys Leu Gly Asn Ser
 165 170 175
 Lys Lys Asn Arg Ala Leu Pro Asn Glu Arg Ser Arg Val Phe Ile Leu
 180 185 190
 Asn Glu Arg Asp Ile Asn Asn Ile Arg Lys Ser Leu Ile Thr Tyr His
 195 200 205
 Tyr Lys Val Asn Gly Asp Thr Ile Lys Lys Thr Leu Glu Arg His Ile
 210 215 220
 Asp Leu Tyr Phe Arg Asp Glu Ile Lys Thr Ala Asn Leu Glu Asn Arg
 225 230 235 240
 Ala Pro Tyr Val Pro Ser Leu Lys Gln Phe Ser Tyr Trp Asn Lys Lys
 245 250 255
 Leu Phe Thr Lys Asp Phe Ser Ile Asn Lys Lys Asn Thr Lys Lys Glu
 260 265 270
 Ile Asp Leu Lys Met Arg Ala Leu Leu Gly Ser Val Ala Asn Thr Thr
 275 280 285
 Val Leu Pro Gly Asp Val Phe Glu Ile Asp Ser Thr Val Ala Asp Val
 290 295 300
 His Leu Ile Ser Ser Leu Asn Arg Arg Lys Val Ile Gly Arg Pro Thr
 305 310 315 320
 Ile Tyr Thr Val Val Asp Arg Ala Thr Arg Met Ile Val Gly Leu His
 325 330 335
 Val Ser Leu Tyr His Ala Ser Trp Arg Ala Ala Arg Gln Ala Leu Ala
 340 345 350
 Asn Cys Phe Met Pro Lys Lys Glu Tyr Cys Arg Leu Phe Gly Ile Ser
 355 360 365
 Ile Thr Asp Asp Asp Trp Pro Cys Ser His Ile Pro Leu Thr Leu Met
 370 375 380
 Cys Asp Asn Gly Glu Met Ile Gly Leu Lys Pro Gln Glu Glu Met Thr
 385 390 395 400
 Pro Leu Thr Lys Leu Glu Phe Ala Pro Val Gly Arg Gly Asp Arg Lys
 405 410 415
 Ser Ile Val Glu Arg Cys Phe Gly Ile Leu Asn Asp Glu Val Ile His
 420 425 430
 Arg Leu Ile Gly Thr Thr Arg Arg Gly Lys Ile Val Lys Gly Glu Pro
 435 440 445
 Thr Pro Gln Ser Arg Ala Cys Leu Thr Ile Gln Glu Val Thr Ser Leu
 450 455 460
 Leu Ile Arg Glu Ile Leu Ala His Asn Gln Arg Thr Tyr Glu Glu Leu
 465 470 475 480
 Ala Tyr Ile Asn Pro Leu Leu Ile Glu Asn Asp Leu Val Ile Ser Pro
 485 490 495
 Lys Asn Ser Trp Met Ile Ser Leu Lys His Gly Arg Phe Ser Ala Arg

	500				505				510						
Ala	Val	Gly	Ala	Asp	Glu	Val	Ile	Ala	Arg	Leu	Leu	Ile	Pro	Val	Asn
	515						520						525		
Ala	Asn	Ile	Thr	Ala	Gly	Gly	Ile	Gln	Tyr	Asn	Asn	Leu	Phe	Tyr	Glu
	530					535						540			
Cys	Asp	Pro	Glu	Ile	Ala	Ser	Gly	Val	Xaa	Val	Phe	Gly	Arg	Thr	Thr
	545				550				555						560
Cys	Glu	Ala	Arg	Ile	Glu										
				565											

<210> 8003

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 8003

Arg	Pro	Met	Leu	His	Leu	Phe	Ala	Gly	Leu	Asp	Leu	His	Thr	Gly	Leu
1			5						10					15	
Leu	Leu	Leu	Leu	Ala	Leu	Val	Phe	Val	Leu	Phe	Tyr	Glu	Ala	Ile	Asn
			20					25					30		
Gly	Phe	His	Asp	Thr	Ala	Asn	Ala	Val	Ala	Thr	Val	Ile	Tyr	Thr	Arg
		35				40						45			
Ala	Met	Arg	Ser	Gln	Leu	Ala	Val	Val	Met	Ala	Ala	Val	Phe	Asn	Phe
	50					55					60				
Phe	Gly	Val	Leu	Leu	Gly	Gly	Leu	Ser	Val	Ala	Tyr	Ala	Ile	Val	His
	65				70				75					80	
Met	Leu	Pro	Thr	Asp	Leu	Leu	Asn	Val	Ser	Ser	Gly	His	Gly	Leu	
			85					90					95		
Ala	Met	Val	Phe	Ser	Met	Leu	Leu	Ala	Ala	Ile	Ile	Trp	Asn	Leu	Gly
			100					105					110		
Thr	Trp	Tyr	Phe	Gly	Leu	Pro	Ala	Ser	Ser	Ser	His	Thr	Leu	Ile	Gly
		115				120						125			
Ala	Ile	Ile	Gly	Ile	Gly	Leu	Thr	Asn	Ala	Leu	Met	Thr	Gly	Thr	Ser
	130					135					140				
Val	Val	Asp	Ala	Leu	Asn	Ile	Pro	Lys	Val	Leu	Gly	Ile	Phe	Gly	Ser
	145				150				155					160	
Leu	Ile	Ile	Ser	Pro	Ile	Val	Gly	Leu	Val	Val	Ala	Gly	Gly	Leu	Ile
			165					170						175	
Phe	Ile	Leu	Arg	Arg	Tyr	Trp	Ser	Asn	Thr	Lys	Lys	Arg	Ala	Arg	Ile
		180						185					190		
His	Leu	Thr	Pro	Ala	Glu	Arg	Glu	Lys	Lys	Asp	Gly	Lys	Lys	Lys	Pro
	195						200					205			
Pro	Phe	Trp	Thr	Arg	Ile	Ala	Leu	Ile	Ile	Ser	Ala	Ile	Gly	Val	Ala
	210				215						220				
Phe	Ser	His	Gly	Ala	Asn	Asp	Gly	Gln	Lys	Gly	Ile	Gly	Leu	Val	Met
	225				230					235				240	
Leu	Val	Leu	Ile	Gly	Val	Ala	Pro	Ala	Gly	Phe	Val	Val	Asn	Met	Asn
			245						250					255	
Ala	Ser	Gly	Tyr	Glu	Ile	Thr	Arg	Thr	Arg	Asp	Ala	Val	Asn	Asn	Val
		260						265					270		
Glu	Thr	Tyr	Phe	Gln	Gln	His	Pro	Asp	Leu	Leu	Lys	Lys	Ala	Thr	Gly
	275						280					285			
Val	Asp	Gln	Leu	Ile	Pro	Ser	Pro	Glu	Ser	Gly	Ala	Thr	Thr	Ala	Pro
	290				295						300				
Gly	Glu	Phe	His	Cys	His	Pro	Ala	Asn	Ala	Ile	Asn	Ala	Leu	Glu	Arg
	305				310					315				320	
Ala	Lys	Gly	Met	Leu	Ala	Asp	Ile	Glu	Ser	Tyr	Asp	Lys	Leu	Ala	Val
			325						330					335	
Glu	Gln	Arg	Gly	Gln	Leu	Arg	Arg	Ile	Met	Leu	Cys	Ile	Ser	Asp	Val
		340						345				350			
Thr	Asp	Lys	Val	Ala	Lys	Leu	Pro	Glu	Val	Asn	Ala	Asp	Asp	Gln	Arg

355 360 365
 Leu Leu Lys Lys Leu Lys Gly Asp Met Leu Asn Thr Ile Glu Tyr Ala
 370 375 380
 Pro Ile Trp Ile Ile Met Ala Val Ala Leu Ala Leu Gly Ile Gly Thr
 385 390 395 400
 Met Ile Gly Trp Arg Arg Val Ala Thr Thr Ile Gly Glu Lys Ile Gly
 405 410 415
 Lys Lys Gly Met Thr Tyr Ala Gln Gly Met Ser Ala Gln Met Thr Ala
 420 425 430
 Ala Val Ser Ile Gly Leu Ala Ser Tyr Thr Gly Met Pro Val Ser Thr
 435 440 445
 Thr His Val Leu Ser Ser Ser Val Ala Gly Thr Met Ile Val Asp Gly
 450 455 460
 Gly Gly Leu Gln Arg Lys Thr Val Thr Asn Ile Leu Met Ala Trp Val
 465 470 475 480
 Phe Thr Leu Pro Ala Ser Ile Leu Leu Ser Gly Gly Leu Tyr Trp Ile
 485 490 495
 Ser Leu Lys Leu Ile
 500

<210> 8004

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 8004

Ala Gly Ser Cys Arg Ser Asn Arg Ser His Arg Trp Lys Leu Leu Ile
 1 5 10 15
 Ser Gly Ile Gln Ser Arg Gln Phe Thr Ile Lys Asp Asn Ala Met Thr
 20 25 30
 Lys His Tyr Asp Tyr Ile Ala Ile Gly Gly Gly Ser Gly Ile Ala
 35 40 45
 Ser Ile Asn Arg Ala Ala Met Tyr Gly Gln Lys Cys Ala Leu Ile Glu
 50 55 60
 Ala Lys Glu Leu Gly Gly Thr Cys Val Asn Val Gly Cys Val Pro Lys
 65 70 75 80
 Lys Val Met Trp His Ala Ala Gln Ile Arg Glu Ala Ile His Met Tyr
 85 90 95
 Gly Pro Asp Tyr Gly Phe Asp Thr Thr Ile Asn His Phe Asp Trp Asp
 100 105 110
 Lys Leu Ile Ala Ser Arg Thr Ala Tyr Ile Asp Arg Ile His Thr Ser
 115 120 125
 Tyr Asp Asn Val Leu Gly Lys Asn Asn Val Asp Val Ile Arg Gly Phe
 130 135 140
 Ala Arg Phe Val Asp Ala Lys Thr Ile Glu Val Asn Gly Glu Thr Ile
 145 150 155 160
 Thr Ala Asp His Ile Leu Ile Ala Thr Gly Gly Arg Pro Ser His Pro
 165 170 175
 His Ile Pro Gly Ala Glu Tyr Gly Ile Asp Ser Asp Gly Phe Phe Glu
 180 185 190
 Leu Pro Ala Leu Pro Glu Arg Val Ala Ile Val Gly Ala Gly Tyr Ile
 195 200 205
 Ala Val Glu Leu Ala Gly Val Ile Asn Gly Leu Gly Ala Glu Ala His
 210 215 220
 Leu Phe Val Arg Lys His Ala Pro Leu Arg Ser Phe Asp Pro Leu Ile
 225 230 235 240
 Val Asp Thr Leu Val Glu Val Met Asn Ala Glu Gly Pro Thr Leu His
 245 250 255
 Thr Asn Ala Val Pro Lys Ala Val Val Lys Asn Ala Asp Gly Ser Leu
 260 265 270
 Thr Leu Glu Leu Glu Asp Gly Arg Ser Gln Thr Val Asp Cys Leu Ile

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<210> 8005
<211> 444
<212> PRT
<213> Enterobacter cloacae
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1	Alu	Asn	Ile	Met	5	Gln	Ala	Thr	Ala	Thr	Thr	10	Leu	Asn	Glu	Gly	Ala	Glu
His	Val	Pro	Val	20	Asn	Ser	Arg	Asn	Lys	Val	Val	Val	Val	Ala	Ser	Leu	Ile	
Gly	Thr	Ala	Ile	35	Glu	Phe	Phe	Asp	Phe	Tyr	Ile	Tyr	Ala	Thr	Ala	Ala		
Val	Ile	Val	Phe	50	Pro	His	Ile	Phe	Phe	Pro	Gln	Gly	Asp	Pro	Thr	Ala		
Ala	Thr	Leu	Gln	65	Ser	Leu	Ala	Thr	Phe	Ala	Ile	Ala	Phe	Val	Ala	Arg		
Pro	Ile	Gly	Ser	85	Ala	Val	Phe	Gly	His	Phe	Gly	Asp	Arg	Val	Gly	Arg		
Lys	Val	Thr	Leu	100	Val	Ala	Ser	Leu	Leu	Thr	Met	Gly	Ile	Ser	Thr	Val		
Ala	Ile	Gly	Leu	115	Leu	Pro	Thr	Glu	Thr	Ile	Gly	Ile	Leu	Ala	Pro			
Val	Leu	Leu	Ala	130	Leu	Ala	Arg	Phe	Gly	Gln	Leu	Gly	Leu	Gly	Gly			
Glu	Trp	Gly	Gly	145	Ala	Ala	Leu	Leu	Ala	Thr	Glu	Asn	Ala	Pro	Ala			
Lys	Arg	Ala	Leu	165	Tyr	Gly	Ser	Phe	Pro	Gln	Leu	Gly	Ala	Pro	Ile			
Phe	Phe	Phe	Ala	180	Asn	Gly	Thr	Phe	Leu	Leu	Leu	Ser	Trp	Leu	Leu			
Asp	Glu	Gln	Phe	195	Met	Ser	Trp	Gly	Trp	Arg	Ile	Pro	Phe	Val	Phe			
Ala	Val	Leu	Val	210	Leu	Ile	Gly	Leu	Tyr	Val	Arg	Val	Ser	Leu	His			

210 215 220
 Thr Pro Val Phe Ala Lys Val Ala Ala Lys Lys Gln Val Lys Val
 225 230 235 240
 Pro Leu Gly Thr Leu Thr Arg His Leu Arg Val Thr Val Leu Gly
 245 250 255
 Thr Phe Ile Met Leu Ala Thr Tyr Thr Leu Phe Tyr Ile Met Thr Val
 260 265 270
 Tyr Ser Met Thr Phe Ser Thr Ala Ala Ala Pro Val Gly Leu Gly Leu
 275 280 285
 Pro Arg Asn Glu Val Leu Trp Met Leu Met Met Ala Val Ile Gly Phe
 290 295 300
 Gly Val Met Val Pro Ile Ala Gly Leu Leu Ala Asp Lys Phe Gly Arg
 305 310 315 320
 Arg Ser Ser Met Ile Val Ile Thr Ser Leu Ile Ile Leu Phe Ala Leu
 325 330 335
 Phe Val Phe Pro Pro Leu Leu Gly Ser Gly Ser Pro Ala Leu Val Met
 340 345 350
 Ala Tyr Leu Leu Ile Gly Leu Ser Leu Met Gly Leu Thr Phe Gly Pro
 355 360 365
 Met Gly Ala Leu Leu Pro Glu Leu Phe Pro Thr Glu Val Arg Tyr Thr
 370 375 380
 Gly Ala Ser Phe Ser Tyr Asn Val Ser Ser Ile Leu Gly Ala Ser Val
 385 390 395 400
 Ala Pro Tyr Ile Ala Thr Trp Leu Gln Ala Asn Tyr Gly Leu Phe Tyr
 405 410 415
 Val Gly Val Tyr Leu Ala Ala Met Ala Ala Leu Thr Leu Ile Ala Leu
 420 425 430
 Leu Leu Thr His Glu Thr Lys His Gln Ala Leu
 435 440

<210> 8006

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 8006

Gly Arg Ser Asn Thr Met Ala Tyr Lys His Ile Leu Ile Ala Val Asp
 1 5 10 15
 Leu Ser Pro Glu Ser Lys Val Leu Val Asp Lys Ala Val Ser Met Ala
 20 25 30
 Arg Pro Tyr Asn Ala Lys Val Ser Leu Ile His Val Asp Val Asn Tyr
 35 40 45
 Ser Asp Leu Tyr Thr Gly Leu Ile Asp Val Asn Leu Gly Asp Met Gln
 50 55 60
 Lys Arg Ile Ser Glu Glu Thr His His Ala Leu Ser Glu Leu Ser Thr
 65 70 75 80
 Asn Ala Gly Tyr Pro Ile Thr Glu Thr Leu Ser Gly Ser Gly Asp Leu
 85 90 95
 Gly Gln Val Leu Val Asp Ala Ile Lys Lys Tyr Asp Met Asp Leu Val
 100 105 110
 Val Cys Gly His His Gln Asp Phe Trp Ser Lys Leu Met Ser Ser Ala
 115 120 125
 Arg Gln Leu Ile Asn Thr Val His Val Asp Met Leu Ile Val Pro Leu
 130 135 140
 Arg Asp Glu Glu Asp Glu
 145 150

<210> 8007

<211> 569

<212> PRT

<213> Enterobacter cloacae

<400> 8007

Lys Ile Ala Gly Lys Asn Pro Tyr Leu Leu Arg Gln Lys Pro Glu Val
 1 5 10 15
 Leu Asn Thr Met Phe Asn Gln Lys Leu Gln Thr Ala Glu Asp Ile Glu
 20 25 30
 Phe Asp Ile Ala Glu Glu Leu Arg Tyr Glu Thr Asp Pro Cys Glu Leu
 35 40 45
 Lys Leu Asp Glu Met Ile Glu Ala Glu Pro Glu Pro Cys Met Ile Glu
 50 55 60
 Gly Leu Pro Ala Ser Asp Ala Leu Thr Pro Ala Asp Arg Tyr Leu Glu
 65 70 75 80
 Leu Phe Glu His Val Gln Ser Ser Arg Leu Phe Ala Asp Ser Lys Thr
 85 90 95
 Phe Pro Asp Cys Ala Pro Lys Met Asp Pro Leu Asp Ile Leu Ile Arg
 100 105 110
 Tyr Arg Lys Val Arg Arg His Arg Asp Phe Asp Leu Ala Arg Phe Val
 115 120 125
 Lys Asn His Phe Trp Leu Pro Glu Asp Tyr Ser Lys Glu Tyr Val Ser
 130 135 140
 Asp Pro Gly Leu Ser Leu Lys Glu His Ile Asp Asn Leu Trp Pro Val
 145 150 155 160
 Leu Thr Arg Glu Pro Gln Asp His Ile Pro Trp Ser Ser Leu Leu Ala
 165 170 175
 Leu Pro Gln Ala Tyr Ile Val Pro Gly Gly Arg Phe Ser Glu Thr Tyr
 180 185 190
 Tyr Trp Asp Ser Tyr Phe Ser Met Leu Gly Leu Ala Glu Ser Gly Arg
 195 200 205
 Asn Asp Leu Leu Lys Cys Met Ala Asp Asn Phe Ala Trp Leu Ile Glu
 210 215 220
 Arg Tyr Gly His Ile Pro Asn Gly Asn Arg Thr Tyr Tyr Leu Ser Arg
 225 230 235 240
 Ser Gln Pro Pro Val Phe Ala Leu Met Val Glu Leu Phe Glu Glu Asp
 245 250 255
 Gly Val Arg Gly Ala Lys Arg Tyr Leu Glu His Leu Lys Met Glu Tyr
 260 265 270
 Ala Phe Trp Met Asp Gly Ala Glu Ser Leu Leu Leu Asn Gln Ala Tyr
 275 280 285
 Arg Ser Ala Val Arg Met Pro Asp Gly Ser Leu Leu Asn Arg Tyr Trp
 290 295 300
 Asp Asp Arg Asp Thr Pro Arg Asp Glu Ser Trp Ile Glu Asp Val Glu
 305 310 315 320
 Thr Ala Arg His Ser Gly Arg Pro Pro Asn Glu Val Tyr Arg Asp Leu
 325 330 335
 Arg Ala Gly Ala Ala Ser Gly Trp Asp Tyr Ser Ser Arg Trp Leu Arg
 340 345 350
 Asp Pro Ala Arg Leu Ala Ser Ile Arg Thr Thr Gln Phe Ile Pro Ile
 355 360 365
 Asp Leu Asn Ala Phe Leu Phe Lys Leu Glu Ser Ala Ile Ala Asn Ile
 370 375 380
 Ser Ala Ser Lys Gly Asp Lys Glu Thr Ala Asp Leu Phe Arg Gln Lys
 385 390 395 400
 Ala Ser Asp Arg Arg Ala Ala Val Asn Arg Tyr Leu Trp Asp Glu Glu
 405 410 415
 Asn Gly Cys Tyr Arg Asp Tyr Asp Trp Arg Arg Glu Ala Leu Ala Leu
 420 425 430
 Phe Ser Ala Ala Ser Ile Val Pro Leu Tyr Val Gly Met Ala Thr His
 435 440 445
 Glu Gln Ala Glu Arg Leu Ser Asp Ala Val Lys Ala Arg Leu Leu Thr
 450 455 460
 Pro Gly Gly Ile Leu Ala Thr Glu Tyr Glu Thr Gly Glu Gln Trp Asp

465 470 475 480
 Lys Pro Asn Gly Trp Ala Pro Leu Gln Trp Met Ala Ile Gln Gly Phe
 485 490 495
 Lys Gln Tyr Gly Asn Asp Ser Leu Gly Asp Glu Ile Ala Trp Ser Trp
 500 505 510
 Leu His Thr Val Asn His Tyr Tyr Lys Thr His His Lys Leu Ile Glu
 515 520 525
 Lys Tyr His Ile Ala Ser Ser Thr Pro Arg Glu Gly Gly Gly Glu
 530 535 540
 Tyr Pro Leu Gln Asp Gly Phe Gly Trp Thr Asn Gly Val Val Arg Arg
 545 550 555 560
 Leu Ile Gly Leu Tyr Gly Glu Pro
 565

<210> 8008

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 8008

Glu Glu Thr Leu Met Thr Gly Tyr Ala Met Gln Ile Ser Ser Ala Ala
 1 5 10 15
 Ile Ala Leu Ile Lys Lys Gln Gln Gly Leu Ser Leu Glu Lys Tyr Arg
 20 25 30
 Asp Glu Lys Gly Ile Trp Val Ile Gly Tyr Gly His Val Ile Arg Gln
 35 40 45
 Trp Glu Lys Phe Asn Gly Leu Ile Thr Pro Thr Glu Ala Glu Asn Leu
 50 55 60
 Leu Cys Asn Asp Ile Gln Leu Cys Glu Ala Leu Leu Arg Glu Met Asn
 65 70 75 80
 Lys Arg Pro Leu Thr Gln Gln Gln His Asp Ala Leu Ile Leu Thr Leu
 85 90 95
 Phe Ser Phe Gly Glu Glu Ser Pro Leu Pro Glu Lys Ile Leu Glu Ala
 100 105 110
 Val Ala Arg Val
 115

<210> 8009

<211> 225

<212> PRT

<213> Enterobacter cloacae

<400> 8009

Pro Leu Pro Ser Gly Ala Cys Val Tyr Gly Val Ala Tyr Arg Thr His
 1 5 10 15
 Lys Arg Leu Arg Gly Leu Val Ala Ser Tyr Asn Ser Val Thr Ser Ser
 20 25 30
 Ser Thr Lys Arg Lys Met Arg Val Thr Pro Glu Asn Asn Pro Gln Arg
 35 40 45
 Pro Thr Gln His Leu Asp Tyr Glu Pro Ile Lys Lys Met Asp Asn Glu
 50 55 60
 Pro Glu Ala Pro Lys Glu Pro Gly Thr Ala Ser Lys Ala Leu Gly Thr
 65 70 75 80
 Val Thr Gly Ile Ala Glu Lys Ile Gln Gln Ile Pro Ala Ile Ala His
 85 90 95
 Leu Ile Arg Ala Ala Glu Arg Phe Asn Asp Arg Met Gly Asn Gln Phe
 100 105 110
 Gly Ala Ala Ile Thr Tyr Phe Ser Phe Leu Ser Met Ile Pro Ile Leu
 115 120 125
 Met Val Ser Phe Ala Ala Ala Gly Phe Val Leu Ala Ser His Pro Thr
 130 135 140

Leu Leu Gln Asp Ile Phe Asn Lys Ile Leu Thr Asn Val Ser Asp Gln
 145 150 155 160
 Thr Leu Ala Thr Thr Leu Lys Ser Thr Ile Asn Thr Ala Val Gln Gln
 165 170 175
 Arg Thr Thr Val Gly Ile Val Gly Leu Leu Ile Ala Leu Tyr Ser Gly
 180 185 190
 Val Asn Trp Met Gly Asn Leu Arg Glu Ala Ile Arg Ala Gln Ser Arg
 195 200 205
 Asp Val Trp Glu Arg Arg Pro Gln Asp Gln Glu Lys Ile Trp Val Lys
 210 215 220

225

<210> 8010

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 8010

Leu Arg Asp Phe Ile Ser Leu Ile Gly Leu Leu Val Ala Leu Val Ile
 1 5 10 15
 Thr Leu Ser Ile Thr Ser Val Ala Gly Ser Ala Gln Gln Met Ile Ile
 20 25 30
 Ser Ala Leu Tyr Leu Asp Tyr Ile Glu Trp Leu Lys Pro Ala Trp Arg
 35 40 45
 Gly Ile Gly Leu Ala Ile Ser Ile Phe Ala Asn Tyr Leu Leu Phe Phe
 50 55 60
 Trp Ile Phe Trp Arg Leu Pro Arg His Arg Pro Arg Lys Lys Ala Leu
 65 70 75 80
 Ile Arg Gly Thr Leu Ile Ala Ala Ile Gly Phe Glu Val Ile Lys Ile
 85 90 95
 Val Met Thr Tyr Thr Leu Pro Ser Leu Val Lys Ser Pro Ser Gly Ala
 100 105 110
 Ala Phe Gly Ser Val Leu Gly Leu Met Ala Phe Phe Tyr Phe Phe Ala
 115 120 125
 Arg Leu Thr Leu Phe Cys Ala Ala Trp Ile Ala Thr Ala Glu Tyr Lys
 130 135 140
 Asp Asp Pro Arg Met Pro Gly Lys Thr His Arg
 145 150 155

<210> 8011

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 8011

Thr Val Ala Asn Arg Gln Phe Ser Gly Ile Ser Leu Pro Met Leu Ser
 1 5 10 15
 Tyr Arg His Ser Phe His Ala Gly Asn His Ala Asp Val Leu Lys His
 20 25 30
 Thr Val Gln Ser Leu Ile Ile Glu Ser Leu Lys Glu Lys Asp Lys Pro
 35 40 45
 Phe Leu Tyr Leu Asp Thr His Ala Gly Ala Gly Arg Tyr Gln Leu Ser
 50 55 60
 Gly Glu His Ala Glu Arg Thr Gly Glu Tyr Leu Glu Gly Ile Ala Arg
 65 70 75 80
 Ile Trp Gln Gln Asp Asp Leu Pro Ala Glu Leu Glu Pro Tyr Ile Gly
 85 90 95
 Val Val Asn His Phe Asn Arg Asn Gly Gln Leu Arg Tyr Tyr Pro Gly
 100 105 110
 Ser Pro Leu Ile Ala Arg Gln Leu Leu Arg Glu Gln Asp Ser Leu Gln

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      115      120      125
Leu Thr Glu Leu His Pro Ser Asp Phe Pro Leu Leu Arg Ser Glu Phe
130      135      140
Gln Lys Asp Asn Arg Ala Arg Val Asp Lys Ala Asp Gly Tyr Gln Gln
145      150      155      160
Leu Lys Ala Lys Leu Pro Pro Val Ser Arg Arg Gly Leu Val Leu Ile
      165      170      175
Asp Pro Pro Tyr Glu Ile Lys Thr Asp Tyr Gln Ala Val Val Thr Gly
      180      185      190
Ile Asn Glu Gly Tyr Lys Arg Phe Ala Thr Gly Thr Tyr Ala Leu Trp
      195      200      205
Tyr Pro Val Val Leu Arg Ala Gln Ile Lys Arg Met Ile Lys Asp Leu
      210      215      220
Glu Ala Thr Gly Ile Arg Lys Ile Leu Gln Ile Glu Leu Ala Val Arg
      225      230      235
Pro Asp Ser Asp Gln Arg Gly Met Thr Ala Ser Gly Met Ile Val Ile
      240      245      250      255
Asn Pro Pro Trp Lys Leu Glu Ala Gln Met Asn Asn Val Leu Pro Trp
      260      265      270
Leu His Lys Thr Leu Val Pro Ala Gly Thr Gly His Ala Thr Val Ser
      275      280      285
Trp Ile Val Pro Glu
      290

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<210> 8012
<211> 191
<212> PRT
<213> Enterobacter cloacae

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<400> 8012
Gln Pro Tyr Asn His Leu Gln Cys Leu Arg Arg Ile Val Met Pro Ala
1      5      10      15
Leu Thr Thr Ala Arg Leu Thr Cys Ser Pro Leu Gln Glu Gln Asp Trp
      20      25      30
Pro Phe Phe Leu Ser Leu Gln Gln Asn Pro Glu Val Met Arg Phe Val
      35      40      45
Ala Pro Ala Arg Ser Glu Ala Asp Ile Arg Glu Ala Phe Glu Ser Arg
      50      55      60
Leu Leu Pro Trp Thr Pro Gly Ser Ser His Trp Leu Cys Leu Met Val
      65      70      75      80
Arg Glu Thr Ala Ser Gln Thr Pro Leu Gly Val Thr Gly Tyr Val His
      85      90      95
Arg Glu Ala Asp Cys Ala Glu Val Gly Phe Leu Phe Ala Pro Ser Ala
      100      105      110
Gln Gly Lys Gly Tyr Gly Phe Glu Ser Leu Arg Ala Val Cys Asp Phe
      115      120      125
Ala Leu Thr Gln Gly Asn Ile Arg Arg Leu Thr Ala Thr Val Thr Ala
      130      135      140
Gly Asn Ile Ala Ser Arg Arg Leu Leu Glu Lys Thr Gly Phe Gln Leu
      145      150      155      160
Glu Gly Glu Leu Arg Glu Ser Tyr Phe Leu Ser Gly Gln Trp His Asn
      165      170      175
Asp Trp Leu Phe Gly Leu Leu Lys Lys Glu Phe Pro Phe Ser
      180      185      190

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<210> 8013
<211> 303
<212> PRT
<213> Enterobacter cloacae

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<400> 8013

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Pro Thr Ser Met Asp Lys Ile His Ala Met Gln Leu Phe Leu Arg Val
1      5      10      15
Ala Glu Leu Glu Ser Phe Ser Arg Ala Ala Glu Thr Leu Ser Leu Pro
20      25      30
Lys Gly Ser Val Ser Arg Gln Ile Gln Ala Leu Glu Asn Ala Leu Gly
35      40      45
Thr Gln Leu Leu His Arg Thr Thr Arg Arg Val Ser Leu Thr Gln Asp
50      55      60
Gly Met Val Tyr Tyr Glu Arg Ala Lys Asp Leu Leu Met Asn Leu Asp
65      70      75      80
Glu Leu Asp Gly Met Phe Leu His Asp Pro Ser Thr Ile Ser Gly Arg
85      90      95
Leu Arg Val Asp Met Pro Val Ala Ile Ala Arg Asn Val Val Ile Pro
100      105      110
Lys Leu Pro Ala Phe Leu Gln Gln Phe Pro Gly Ile Glu Leu Glu Leu
115      120      125
Ser Ser Ser Asp Arg Leu Val Asp Val Ile Arg Glu Gly Phe Asp Cys
130      135      140
Val Val Arg Val Gly Asn Leu Lys Asp Ser Gly Leu Ile Ala Arg Pro
145      150      155      160
Leu Gly Lys Leu Ser Val Ile Asn Cys Ala Ser Pro Asp Tyr Leu Thr
165      170      175
Arg Phe Gly Tyr Pro Glu Thr Leu Asp Asp Leu Ala Ser His Ala Leu
180      185      190
Ile His Tyr Ser Ala Thr Leu Gly Thr Arg Pro Gln Gly Phe Glu Tyr
195      200      205
Tyr Asn Gly Ser Ala Thr Arg Trp Val Lys Thr Gly Gly Val Leu Ser
210      215      220
Val Asn Ser Thr Glu Thr Tyr Gln Ala Ala Cys Ile Ala Gly Leu Gly
225      230      235      240
Ile Ile Gln Val Pro Arg Val Gly Val Arg Asp Ala Leu Arg Thr Lys
245      250      255
Lys Leu Val Glu Ile Leu Pro Gln Tyr Arg Ala Glu Pro Met Pro Val
260      265      270
Ser Leu Ile Tyr Pro His Arg Arg Asn Leu Ser Arg Arg Val His Val
275      280      285
Phe Met Glu Trp Leu Thr Glu Leu Thr Lys Gly Tyr Val Asp
290      295      300

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<210> 8014

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 8014

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Leu Thr Ile Lys Asn Thr Gln Arg Thr Leu Pro Leu Ile Thr Leu Phe
1      5      10      15
Arg Phe Thr Thr Met Ser Lys Lys Ile Ala Val Ile Gly Gly Cys Met
20      25      30
Ile Glu Leu Ser Gln Lys Gly Ala Glu Val Ser Arg Gly Phe Gly Gly
35      40      45
Asp Thr Leu Asn Thr Ser Val Tyr Ile Ala Arg Gln Val Ser Pro Asp
50      55      60
Ala Leu Ser Val Ser Tyr Val Thr Ala Leu Gly Thr Asp Ser Phe Ser
65      70      75      80
Gln Gln Met Leu Glu Ala Trp Gln Gly Glu Asn Val Gly Thr Ser Leu
85      90      95
Ile Gln Arg Met Glu Asn Arg Leu Pro Gly Leu Tyr Tyr Ile Glu Thr
100      105      110
Asp Ser Thr Gly Glu Arg Thr Phe Tyr Tyr Trp Arg Asn Glu Ala Ala
115      120      125

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Ala Lys Phe Trp Leu Glu Ser Glu Ala Ala Ala Ile Cys Glu Glu
  130      135      140
Leu Ala Thr Phe Asp Tyr Leu Tyr Leu Ser Gly Ile Ser Leu Ala Ile
  145      150      155      160
Leu Ser Gln Glu Ser Arg Glu Lys Leu Leu Ser Leu Leu Arg Glu Cys
      165      170      175
Arg Ala Asn Gly Gly Lys Val Ile Phe Asp Asn Asn Tyr Arg Pro Arg
      180      185      190
Leu Trp Ala Ser Arg Glu Glu Thr Gln Gln Val Tyr Gln Gln Met Leu
      195      200      205
Glu Cys Thr Asp Ile Ala Phe Leu Thr Leu Asp Asp Glu Asp Ala Leu
      210      215      220
Trp Gly Glu Lys Pro Val Asp Glu Val Ile Ala Arg Thr Gln Ala Ala
      225      230      235      240
Gly Val Ser Glu Val Val Ile Lys Arg Gly Ala Glu Ser Cys Leu Val
      245      250      255
Ala Val Ala Gly Glu Ala Val Thr Glu Val Pro Ala Val Lys Leu Ala
      260      265      270
Lys Glu Lys Val Ile Asp Thr Thr Ala Ala Gly Asp Ser Phe Ser Ala
      275      280      285
Gly Tyr Leu Ala Val Arg Leu Thr Gly Gly Thr Pro Glu Ala Ala Ala
      290      295      300
Gln Arg Gly His Leu Thr Ala Ser Thr Val Ile Gln Tyr Arg Gly Ala
      305      310      315      320
Ile Ile Pro Arg Glu Ala Met Pro Ala
      325      330

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<210> 8015

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 8015

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Lys Leu Leu Gln Pro Gln Gln Gly Arg Gln Val Glu Val Val Ala Arg
  1      5      10      15
Phe Val Gln Lys Gln Gln Ile Arg Ile Ala Tyr Gln Arg Pro Arg Gln
      20      25      30
Gln Gln Pro Arg Met Leu Thr Ala Ala Gln Arg Gly Gly Leu Gln Arg
      35      40      45
Arg Phe Leu Arg Arg Lys Ala His Ser Gly Gln Gln Arg Leu Gly Leu
      50      55      60
Pro Ala Lys Thr Val Ala Leu Thr Gly Arg Gln Leu Arg Gln His Arg
      65      70      75      80
Ile Gln His Gly Gln Gly Ile Lys Gly Leu Arg Gln Met Leu Phe His
      85      90      95
Ala Arg Gln Gln Ala Met Ser Ser Gln
      100      105

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<210> 8016

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 8016

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His Cys Ser Ser Ile Glu Val Phe Asp Ala Leu Val Ile Leu Ser Val
  1      5      10      15
Leu Leu Trp Val Pro Asp Ile His Asp Thr Thr Thr Thr Arg Leu Thr
      20      25      30
Glu Gln Phe His Phe Leu Lys Lys Pro Glu Pro Trp Leu Ile Phe Ala
      35      40      45
Ala Thr Met Phe Gly Asn Ala Gly Val Phe Ala Trp Phe Ser Phe Val

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50 55 60
 Lys Pro Phe Met Val Asn Val Ser Gly Phe Ser Glu Gly Val Met Thr
 65 70 75 80
 Ala Ile Met Met Leu Met Gly Leu Gly Met Val Leu Gly Asn Val Phe
 85 90 95
 Ser Gly Lys Leu Ser Ser Arg Phe Ser Pro Leu Arg Ile Ala Ala Thr
 100 105 110
 Thr Asp Leu Val Ile Val Ala Ser Leu Leu Ala Leu Phe Ala Phe Gly
 115 120 125
 Glu Leu Lys Thr Ala Ser Leu Val Met Gly Phe Val Cys Cys Ala Gly
 130 135 140
 Leu Phe Ala Leu Ser Ala Pro Leu Gln Ile Leu Leu Leu Gln Asn Ala
 145 150 155 160
 Lys Gly Gly Glu Met Leu Gly Ala Ala Gly Gly Gln Met Ala Phe Asn
 165 170 175
 Leu Gly Ser Ala Ile Gly Ala Tyr Phe Gly Gly Met Met Ile Thr Leu
 180 185 190
 Gly Phe Ser Trp Ser Tyr Val Thr Leu Pro Ala Ala Ile Leu Ser Phe
 195 200 205
 Ser Ala Met Thr Ser Leu Leu Met Tyr Gly Tyr Leu Cys Ala Lys Lys
 210 215 220
 Arg Gln Ala Asn Ala Gly Ala Leu Ala
 225 230

<210> 8017

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 8017

Ile Glu Gln Met Glu Val Lys Met Asp Arg Val Ile Ala Ala Gln Val
 1 5 10 15
 Tyr Asn Arg Ile Cys Glu Leu Gly Ser Leu Ser Ala Ala Arg Ala
 20 25 30
 Leu Gly Ile Ser Arg Pro Met Val Ser Arg Tyr Leu Glu Gln Met Glu
 35 40 45
 Lys Trp Ala Gly Ala Arg Leu Val Asn Arg Ser Thr Arg Lys Leu Thr
 50 55 60
 Leu Thr Ala Ala Gly Glu Lys Val Leu Gln Lys Thr Arg Thr Leu Ser
 65 70 75 80
 Gln Ile Ser Gln Glu Ile Glu Asp Gln Ser Val Lys Asp Leu Pro Ser
 85 90 95
 Gly Thr Leu Arg Val Ala Cys Ala His Phe Thr Ala Met His Ile Ile
 100 105 110
 Val Pro Val Leu Pro Asp Leu Leu Gln Arg Tyr Pro Gln Leu Arg Ile
 115 120 125
 Glu Leu Asp Val Asn Asn His Pro Val Ser Leu Val Gly Glu Arg Ile
 130 135 140
 Asp Val Ala Ile Arg Ile Thr Asp Asn Pro Glu Pro Gly Met Ile Ala
 145 150 155 160
 Arg Arg Leu Gly Glu Cys Arg Ser Val Leu Cys Ala Ser Pro His Tyr
 165 170 175
 Leu Ala Ser Arg Gly Val Pro Val Gln Leu Glu Asp Leu Ser Arg His
 180 185 190
 Asn Cys Leu His Tyr Ser Phe Phe Ala Gly Gln Ser Trp Arg Phe Leu
 195 200 205
 Thr Pro Glu Gly Glu Ser Val Thr Thr Ala Val Ser Gly Asn Leu Ser
 210 215 220
 Ala Ser Ile Ser Ser Leu Leu Met Glu Ala Ala Ile Asn His Cys Gly
 225 230 235 240
 Ile Ala Met Leu Pro Glu Arg Glu Ala Asp Ala Ala Leu Arg Gln Gly

Ser Leu Val Pro Val Leu Gly Ala Phe Thr Pro Lys Pro Ile Gly Ile
 245 250 255
 260 265 270
 Phe Gly Ile Tyr Gln Ser Arg Asp Tyr Gln Pro Ala Ala Gln Arg Val
 275 280 285
 Phe Leu Asp Ala Leu Ala Asn His Leu Ala Thr Arg Ser Asp
 290 295 300

<210> 8018
 <211> 149
 <212> PRT
 <213> Enterobacter cloacae

<400> 8018
 Ala Lys Arg Arg Ala Arg Met Thr Ile His Lys His Gly Ser Ala His
 1 5 10 15
 Trp Ser Gly Asp Ile Lys Arg Gly Lys Gly Thr Val Ser Thr Glu Ser
 20 25 30
 Gly Val Leu Asn Gln Gln Pro Tyr Gly Phe Asn Thr Arg Phe Glu Gly
 35 40 45
 Glu Lys Gly Thr Asn Pro Glu Glu Leu Ile Gly Ala Ala His Ala Ala
 50 55 60
 Cys Phe Ser Met Ala Leu Ser Leu Met Leu Gly Glu Ala Gly Tyr Thr
 65 70 75 80
 Ala Asp Ser Ile Asp Thr Thr Ala Asp Val Ser Leu Asp Lys Thr Asp
 85 90 95
 Ser Gly Phe Ala Ile Ser Lys Val Ala Leu Gln Ser Lys Val Thr Val
 100 105 110
 Pro Gly Ile Asp Pro Gln Gln Phe Asp Gly Ile Ile Gln Lys Ala Lys
 115 120 125
 Ala Gly Cys Pro Val Ser Gln Leu Leu Lys Ala Glu Ile Thr Leu Asp
 130 135 140
 Tyr Lys Leu Asn
 145

<210> 8019
 <211> 265
 <212> PRT
 <213> Enterobacter cloacae

<400> 8019
 Arg Gly Gln Thr Leu Leu Phe Tyr Ile Thr Thr Lys Val Met Ser Met
 1 5 10 15
 Asn Thr Thr Leu Ala Gly Lys Ile Ala Leu Val Thr Gly Gly Ser Thr
 20 25 30
 Gly Ile Gly Leu Ala Thr Ala Gln Glu Leu Ala Ala Gln Gly Ala Lys
 35 40 45
 Val Tyr Ile Thr Gly Arg Arg Gln Ala Glu Leu Asp Ala Ala Arg Ala
 50 55 60
 Asp Ile Gly Ala Ala Ala Val Ala Ile Arg Ala Asp Val Ser Arg Met
 65 70 75 80
 Ala Asp Leu Asp Ala Val Tyr Ala Gln Ile Ala Lys Glu Glu Gly Arg
 85 90 95
 Leu Asp Ile Leu Phe Ala Asn Ala Gly Gly Gly Asp Met Leu Pro Leu
 100 105 110
 Gly Ala Ile Thr Glu Glu Gln Phe Asp Arg Ile Phe Ala Thr Asn Val
 115 120 125
 Arg Gly Val Leu Phe Thr Val Gln Lys Ala Leu Pro Leu Leu Ser Ser
 130 135 140
 Gly Ser Ser Ile Ile Leu Thr Gly Ser Thr Val Ser Ile Lys Gly Thr
 145 150 155 160

Ala Asn Phe Ser Val Tyr Ser Ala Ser Lys Ala Ala Val Arg Asn Phe
 165 170 175
 Ala Arg Ser Trp Ala Leu Asp Leu Gln Gly Arg Gly Ile Arg Val Asn
 180 185 190
 Val Val Ser Pro Gly Pro Val Lys Thr Pro Gly Leu Gly Asp Leu Val
 195 200 205
 Pro Glu Glu Gln Arg Gln Gly Leu Tyr Asp Ala Leu Ala Ala Gln Val
 210 215 220
 Pro Leu Gly Arg Leu Gly Ala Pro Gly Glu Val Gly Lys Ala Val Ala
 225 230 235 240
 Phe Leu Ala Ser Asp Ala Ala Ser Phe Ile Asn Ala Thr Glu Leu Phe
 245 250 255
 Val Asp Gly Gly Met Ala Gln Ile
 260 265

<210> 8020

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 8020

His Pro Val Pro Ala Arg Arg Gln Ala Ser Arg Cys Pro Ser Ser Pro
 1 5 10 15
 Ser Val Ala Pro Gly Asp Pro Ala Ser Gly Tyr Gly Thr Pro Pro Ile
 20 25 30
 Lys Cys Pro Ala Ala Arg Gln Ser Pro Gly Pro Ala Ala Lys Ser Arg
 35 40 45
 Arg Pro Val Pro Ala Trp Arg Gly Lys Arg Leu Ser Asn Leu Pro Gln
 50 55 60
 Arg Gly Asp Arg Cys Glu Trp Met Cys Pro Asp Arg His Ala Pro Ala
 65 70 75 80
 Pro Leu His Ser Gly Gln Thr Glu Tyr Arg Ala Val Asp Pro Ala Pro
 85 90 95
 Ala Ala Gly Gly Cys Pro Ala Arg Phe His Arg Trp Arg Gly His Arg
 100 105 110
 Pro Ala Gly Gly Pro Asp Arg Arg Gly Ser Gly Val Lys
 115 120 125

<210> 8021

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 8021

Lys Leu Trp Gly Lys Lys Arg Glu Pro Tyr Met Ala Asn Leu Pro Trp
 1 5 10 15
 Arg Val Ser Val Arg Leu Met Ala Leu Ala Lys Lys Ile Ala Met Val
 20 25 30
 Ile Gly Ile Ile Val Leu Val Leu Leu Ser Val Arg Val Tyr Leu Ser
 35 40 45
 Gln Gln Gly Pro Ala Leu His His Trp His Thr Trp Arg Ala Asp Glu
 50 55 60
 Met Ser Val Gln Glu Met Asp Asn Ala Thr Phe Ala Ala Tyr Val Ala
 65 70 75 80
 Arg Glu Asn Ala Ile Phe Thr Ala Leu Asp Ala Glu Val Thr Ala Lys
 85 90 95
 Val Pro Pro Ala Glu Arg Thr Pro Leu Asn Arg Tyr Tyr Arg Gln Ser
 100 105 110
 Leu Val Trp Pro Gly His Phe Ser Pro Asp Ala Asn Arg Ser Phe Val
 115 120 125
 Leu Met Pro Ala Gly Lys Pro Arg Gly Gly Val Val Leu Leu His Gly

130 135 140
 Leu Thr Asp Ser Pro Tyr Ser Val Arg His Leu Ala Glu Asn Tyr Gln
 145 150 155 160
 Gln His Gly Phe Val Ala Val Val Pro Arg Leu Pro Gly His Gly Thr
 165 170 175
 Ala Pro Gly Ala Leu Thr Asp Val Asp Trp Glu Ala Trp Leu Ala Ala
 180 185 190
 Thr Arg Leu Ala Val Arg Glu Ala Thr Arg Leu Thr Gly Asn Asp Leu
 195 200 205
 Pro Leu His Leu Val Gly Tyr Ser Asn Gly Gly Ala Leu Ala Met Lys
 210 215 220
 Tyr Ala Leu Asp Ala Leu Asp Ala Pro Ala Leu Arg Gln Pro Glu Gln
 225 230 235 240
 Ile Val Leu Leu Ser Pro Met Ile Gly Val Thr Ala Phe Ala Arg Phe
 245 250 255
 Ala Gly Phe Ala Gly Leu Pro Ala Met Leu Pro Ala Phe Ala Lys Ala
 260 265 270
 Ala Trp Leu Asn Ile Ser Pro Glu Tyr Asn Pro Tyr Lys Tyr Asn Ser
 275 280 285
 Phe Pro Val Asn Ala Ala Arg Gln Ser Trp Leu Leu Thr Gln Ala Leu
 290 295 300
 His Glu Gln Ile Asn Arg Gly Val His Asp His Lys Leu Ala Gln Leu
 305 310 315 320
 Pro Pro Ile Leu Ala Phe Gln Ser Val Met Asp Ser Thr Val Ser Thr
 325 330 335
 Arg Ala Val Val Ser Gly Leu Phe Asp Gln Leu Pro Ala Asn Gly Ser
 340 345 350
 Glu Leu Val Val Phe Asp Ile Asn Gln Ala Gly Ser Phe Arg Pro Leu
 355 360 365
 Phe Arg Pro Ser Ser Trp Thr Ala Val Ala Asp Leu Leu Pro Glu Ala
 370 375 380
 Lys Arg Arg Tyr Ser Val Thr Ile Val Thr Asn Ala Ser Pro Asp Arg
 385 390 395 400
 Phe Asp Met Val Ala Lys Lys Thr Pro Ala Gly Ser Thr Arg Glu Thr
 405 410 415
 Val Met Pro Leu Ser Val Ala Tyr Pro Gln Glu Val Tyr Ser Leu Ser
 420 425 430
 His Val Ala Ile Pro Phe Pro Gln Asp Asp Leu Tyr Gly Arg His
 435 440 445
 Pro Ala Val Lys Asn Arg Tyr Gly Ile Ser Leu Gly Thr Ile Ala Leu
 450 455 460
 Trp Gly Glu Thr Ser Val Leu Ser Val Gly Lys Asp Ala Leu Met Arg
 465 470 475 480
 Val Thr Ser Asn Pro Phe Tyr Asp Tyr Met Gln Thr Arg Ile Asp Ser
 485 490 495
 Arg Ile Gly Asp Asn
 500

<210> 8022

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 8022

Val Thr Pro Gly Asn Cys Val Lys Gln Tyr Arg Ser Gly Val Tyr Pro
 1 5 10 15
 Ile Pro Asp Pro Val Ser Val Leu Thr Thr Leu Ile Tyr Arg Ser Gln
 20 25 30
 Leu Ser Leu Thr Cys Thr Ser Ala Ala Leu Ser Ala Leu Val Glu Gln
 35 40 45
 Ala Arg Ile Arg Asn Thr Glu Gln Gly Ile Ser Gly Ile Leu Leu Ser

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      50      55      60
Arg Gly Arg Asp Val Leu Gln Ile Leu Glu Gly Thr Glu Gln Arg Val
65      70      75      80
Val Ala Leu Phe Asn Ser Ile Arg Ala Asp Arg His Thr Gly Val
      85      90      95
Val Glu Leu Met Arg Asp Tyr Gly Pro Arg Arg Arg Phe Glu Asp Val
      100      105      110
Gly Met Leu Leu Phe Asp Leu Asp Val Gln Thr Pro Lys Ala Val Leu
      115      120      125
Ala Ser Val Leu His Tyr Ser Lys Leu Glu Ser Tyr Leu Thr Ser Glu
      130      135      140
Glu Arg Val Phe Lys Phe Ile Gln Thr Phe Ile Thr Gly Lys Thr Ala
      145      150      155      160
Ile Pro Pro Ala Ser Asp Tyr Glu Pro Asp Lys Trp Thr Leu Ser Arg
      165      170      175
Glu Arg Ala Pro Phe Gly Lys Gly Leu Gly Leu Leu Ala Gly Gln Pro
      180      185      190
Cys Gln Phe Ala Leu Gln Pro Ile Val Glu Pro Ser Glu Gly Lys Ile
      195      200      205
Ser Ser Leu Glu Ala Leu Ile Arg Gly Asn Asp Gly Gly Ser Pro Glu
      210      215      220
His Phe Phe Arg Ser Leu Asp Arg Glu Leu Ile Tyr Glu Val Asp Leu
      225      230      235      240
Gln Thr Lys Ala Trp Thr Phe Ala Leu Ala Gln Lys Leu Gly Ile Gly
      245      250      255
Ser His Lys Leu Ala Val Asn Leu Leu Pro Met Ser Leu Val Asn Val
      260      265      270
Pro Gly Ala Val Glu Phe Leu Val Thr Gln Ile Lys Lys His Asn Leu
      275      280      285
Gln Pro Glu Gln Val Ile Ile Glu Val Thr Glu Asn Glu Met Ile Ser
      290      295      300
Gly Phe Asn Gln Phe Asn Ser Ala Ile Lys Gln Leu Arg Ala Glu Gly
      305      310      315      320
Val Gly Leu Ala Ile Asp Asp Phe Gly Ser Gly Tyr Ala Gly Leu Ser
      325      330      335
Leu Leu Thr Arg Phe Gln Pro Asp Lys Leu Lys Ile Asp Arg Glu Ile
      340      345      350
Val Ser Asp Ile His Leu Ser Gly Pro Lys Gln Ala Ile Val Lys Ser
      355      360      365
Ile Ile Ser Cys Cys Thr Asp Leu Glu Ile Thr Leu Val Ala Glu Gly
      370      375      380
Ile Glu Gln Ile Gly Ala Trp Cys Cys Ile Arg Pro Arg Gly Asp Gln
      385      390      395      400
Asn Arg Val Arg Arg
      405

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<210> 8023

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 8023

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Ala Met Ala Phe Tyr Ser Ser Gly Val Glu Tyr Gly Ile His Ser Leu
1      5      10      15
Met Cys Met Val Asp Ala Lys Gly Asn Glu Arg Glu Met Ser Val Arg
      20      25      30
Glu Met Ala Ala Leu Gln Gly Val Pro Tyr Asp Tyr Leu Gly Lys Ile
      35      40      45
Phe Thr Arg Leu Ser Arg Ala Gly Leu Val Ile Ser Thr Glu Gly Lys
      50      55      60
Gly Gly Gly Phe Arg Leu Ala Arg Pro Ala Glu Leu Ile Ser Val Leu

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65 70 75 80
 Asp Val Ala His Ala Ile Asp Gly Glu Lys Asn Met Phe Glu Cys Arg
 85 90 95
 Glu Val Arg Gln Arg Leu Ala Val Phe Asp Glu Thr Pro Pro Ala Trp
 100 105 110
 Val Cys Asp Gly Pro Cys Gly Val Arg Ser Val Met Asp Ser Ala Gln
 115 120 125
 Gln Arg Met Glu Glu Glu Leu Gly Arg His Thr Ile Leu Asp Leu Ala
 130 135 140
 Arg Lys Met Tyr Arg Lys Ala Pro Asp Thr Phe Gln Ile Glu Val Gln
 145 150 155 160
 Glu Trp Ile Ser Asp Arg Arg Ser Ser Thr
 165 170

<210> 8024

<211> 512

<212> PRT

<213> *Enterobacter cloacae*

<400> 8024

Pro Leu Ala Gly Ser Pro Gly Ala Thr Asp Gly Asp Asp Gly His Leu
 1 5 10 15
 Asp Ala Cys Leu Leu Ala Gly Thr Gly Cys Tyr Arg Ser Val Leu Arg
 20 25 30
 Ala Thr Ala Asn Ser Ala Arg Arg Arg Gln Ala Gly Arg Leu Ala Arg
 35 40 45
 Ser Ala Arg Pro Arg Tyr Arg Phe Leu Ser Ala Gly Arg Ser Ala Gly
 50 55 60
 Arg Gln Arg Arg Gly Val Phe Gln Arg Pro Thr Ala Pro Asp Ser Thr
 65 70 75 80
 Leu Pro Asp Pro Gly Leu Cys Ala Ser Gly Tyr Cys Gly Ala Ser Gly
 85 90 95
 Thr Phe Arg Asp Ala Gly Ala Thr Glu Arg Gly Leu Tyr Ser Tyr Arg
 100 105 110
 Pro Arg Glu Arg Val Ala Gly Val Val His Arg Ala Ala Leu Arg Leu
 115 120 125
 Thr Gln Arg His Asp Pro Leu His Tyr Arg Ala Arg Ala Gly Ala Gly
 130 135 140
 Arg Ser Ala Val Arg Gly Ser Pro Tyr Arg Asn Arg Val Cys Leu Ala
 145 150 155 160
 Gly Asn Gly Ser Leu Gly Gly Asp Leu His Ser Gly Ala Gly Leu Pro
 165 170 175
 Cys Arg His Gly Leu Arg Gly Arg Gly Ile Ala Gly Leu Cys Leu Arg
 180 185 190
 Gln Ser Gly Gly Gly Ser Ala Val Ser Val Asp Arg Pro Ala Asn Arg
 195 200 205
 Ala Arg Arg Cys Arg Met Met Leu Thr Gln Glu Thr Pro Val Pro Val
 210 215 220
 Ser Thr Ala Lys Gln Arg Ile Asn Trp Ala Lys Leu Phe Trp Met Leu
 225 230 235 240
 Arg Lys Ser Pro Leu Thr Leu Ile Gly Gly Val Ile Met Ile Val Met
 245 250 255
 Leu Leu Leu Met Val Val Ser Pro Trp Ile Val Pro His Asp Pro Asn
 260 265 270
 Ala Leu Asp Leu Thr Ala Arg Leu Gln Ala Pro Ser Ala Gln His Trp
 275 280 285
 Phe Gly Thr Asp Glu Val Gly Arg Asp Leu Phe Ser Arg Val Leu Val
 290 295 300
 Gly Ser Gln Gln Ser Ile Thr Ala Gly Leu Ala Val Val Val Ile Ala
 305 310 315 320
 Gly Gly Ile Gly Ser Leu Leu Gly Cys Leu Ser Gly Val Leu Gly Gly

325 330 335
 Arg Gly Asp Ala Ile Ile Met Arg Ile Met Asp Ile Met Leu Ser Ile
 340 345 350
 Pro Ser Leu Val Leu Thr Met Ala Leu Ala Ala Ala Leu Gly Pro Ser
 355 360 365
 Leu Phe Asn Ala Met Leu Ala Ile Ala Ile Val Arg Ile Pro Phe Tyr
 370 375 380
 Val Arg Leu Ala Arg Gly Gln Thr Leu Leu Val Arg Gln Phe Thr Tyr
 385 390 395 400
 Val Gln Ala Ala Arg Thr Phe Gly Ala Ser Arg Trp His Leu Ile Ser
 405 410 415
 Trp His Ile Leu Arg Asn Ala Leu Pro Pro Leu Ile Val Gln Ala Ser
 420 425 430
 Leu Asp Ile Gly Ser Ala Ile Leu Met Ala Ala Thr Leu Gly Phe Ile
 435 440 445
 Gly Leu Gly Ala Gln Gln Pro Thr Ala Glu Trp Gly Ala Met Val Ala
 450 455 460
 Val Gly Arg Asn Tyr Val Leu Asp Gln Trp Trp Tyr Cys Ala Phe Pro
 465 470 475 480
 Gly Ala Ala Ile Leu Ile Thr Ala Val Gly Phe Asn Leu Phe Gly Asp
 485 490 495
 Gly Leu Arg Asp Leu Leu Asp Pro Lys Ser Gly Gly Lys Gln Ser
 500 505 510

<210> 8025

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 8025

Phe Pro Arg Ala Gln Lys Ala Asn Arg Leu Pro Ala Gly Thr His Asn
 1 5 10 15
 Arg Arg Asp Ala Met Ser Glu Val Leu Leu Glu Leu Asp Ser Val His
 20 25 30
 Val Asn Phe Pro Ala Arg Lys Asn Trp Leu Gly Arg Val Thr Glu Gln
 35 40 45
 Val His Ala Leu Asn Gly Met Asp Leu Arg Ile His Arg Gly Glu Thr
 50 55 60
 Leu Gly Val Val Gly Glu Ser Gly Cys Gly Lys Ser Thr Leu Ala Gln
 65 70 75 80
 Leu Leu Met Gly Met Leu Lys Pro Ser Trp Gly Ala Cys Gln Arg Ala
 85 90 95
 Asn Ala Ala Gly Gly Met Gln Met Val Phe Gln Asp Pro Leu Ser Ser
 100 105 110
 Leu Asp Pro Arg Leu Pro Val Trp Arg Ile Ile Thr Glu Pro Val Trp
 115 120 125
 Ile Gln Gln Arg Arg Ser Glu Arg Glu Arg Arg Gln Leu Ala Glu Thr
 130 135 140
 Leu Ala Gln Gln Val Gly Ile Arg Ala Glu Tyr Leu Asp Arg Leu Pro
 145 150 155 160
 His Ala Phe Ser Gly Gly Gln Arg Gln Arg Ile Ala Ile Ala Arg Ala
 165 170 175
 Leu Ser Ser Asp Pro Asp Ile Ile Val Leu Asp Glu Pro Thr Ser Ala
 180 185 190
 Leu Asp Ile Ser Val Gln Ala Gln Ile Leu Asn Leu Leu Val Ala Leu
 195 200 205
 Gln Gln Gln Arg Asn Leu Thr Tyr Val Leu Ile Ser His Asn Val Ser
 210 215 220
 Val Val Arg His Met Ser Asp Arg Val Ala Val Met Tyr Leu Gly Gln
 225 230 235 240
 Ile Val Glu Leu Gly Pro Ala Asp Gln Val Leu Ser Gln Pro Arg His

245 250 255
 Pro Tyr Thr Gln Leu Leu Leu Asp Ser Val Pro Arg Thr Gly Glu Pro
 260 265 270
 Leu Asp Glu Asp Leu Ala Leu Arg Lys Thr Asp Leu Pro Gly Asn Arg
 275 280 285
 His Leu Pro Val Gly Cys Tyr Phe Arg Asp Arg Cys Pro Leu Ala Met
 290 295 300
 Gln Gly Cys Glu Arg Pro Gln Pro Leu Gln Pro Ala Ala Glu Gly Arg
 305 310 315 320
 Ser Val Arg Cys Trp Arg Asn Arg
 325

<210> 8026

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 8026

Ser Glu Glu Ile Tyr Val Asp Gln Leu Met Ala Met Arg Ala Phe Thr
 1 5 10 15
 Arg Val Val Glu Ser Gly Ser Phe Thr Arg Ala Ala Asp Ser Leu Asn
 20 25 30
 Met Pro Ile Ala Thr Leu Ser Lys Leu Val Lys Ser Leu Glu Ala His
 35 40 45
 Leu Glu Thr Arg Leu Leu His Arg Thr Thr Arg Arg Val Val Thr Thr
 50 55 60
 Ala Glu Gly Met Glu Tyr Tyr Glu Lys Ala Leu Arg Val Leu Ile Asp
 65 70 75 80
 Ile Glu Asp Ile Asp Thr Ala Phe Arg Ala Ser Cys Cys Thr Pro Lys
 85 90 95
 Gly His Leu Arg Ile Asp Val Gly Gly Ser Thr Ala Arg Asp Val Leu
 100 105 110
 Ile Pro Leu Leu Pro Asp Phe Phe Gln Arg Tyr Pro Asp Leu Arg Ile
 115 120 125
 Asn Leu Gly Val Ala Asp Arg Pro Val Asp Leu Ile Ser Gly Asn Val
 130 135 140
 Asp Cys Val Ile Arg Gly Gly Pro Leu Asp Asp Ser Ser Leu Ile Ala
 145 150 155 160
 Arg His Ile Gly Asp Ala Gly Met Ile Ala Cys Ala Ala Pro Gly Tyr
 165 170 175
 Leu Lys Ala His Gly Ile Pro Ala Tyr Pro Gln Glu Leu Arg Asn Gly
 180 185 190
 His Lys Leu Ile Ser Tyr Leu Ser Pro Val Thr Gly Arg Ala Phe Pro
 195 200 205
 Phe Arg Phe Leu Asp Arg Gly Glu Pro Leu Glu Ile Ser Val Pro His
 210 215 220
 His Leu Gly Val Asn Glu Ser Asn Ala His Leu Ala Ala Ala Leu Ala
 225 230 235 240
 Gly Leu Gly Ile Ile Gln Thr Phe Gly Tyr Ala Ala Arg Ala His Leu
 245 250 255
 Glu Thr Gly Ala Leu Val Glu Ile Leu Ser Asp Trp Arg Pro Lys Ala
 260 265 270
 Tyr Pro Phe His Val Val Tyr Pro Gln Ser Arg His Leu Thr His Arg
 275 280 285
 Leu Arg Val Phe Ile Ala Trp Leu Ala Glu Val Phe Pro Ala Ala Val
 290 295 300
 Lys Gly
 305

<210> 8027

<211> 595

<212> PRT

<213> *Enterobacter cloacae*

<400> 8027

Tyr Gln Pro Thr Ala Pro Arg Ser Thr Gly Gln Lys Asp Asp Lys Gln
 1 5 10 15
 Gln Cys Gln Gly Arg Ile Phe Leu Lys Arg Val Ser Asp Met Asp Asn
 20 25 30
 Lys Leu Lys Lys His Arg Ser Leu Tyr Ile Pro Tyr Ala Gly Pro Val
 35 40 45
 Leu Leu Glu Phe Pro Leu Leu Asn Lys Gly Ser Ala Phe Ser Met Glu
 50 55 60
 Glu Arg Ser Ser Phe Asn Leu Leu Gly Leu Leu Pro Glu Val Val Glu
 65 70 75 80
 Thr Ile Glu Glu Gln Ala Glu Arg Ala Trp Ile Gln Tyr Gln Gly Phe
 85 90 95
 Lys Thr Glu Ile Asp Lys His Ile Tyr Leu Arg Asn Ile Gln Asp Thr
 100 105 110
 Asn Glu Thr Leu Phe Tyr Arg Leu Val Gln Asn His Leu Glu Glu Met
 115 120 125
 Met Pro Val Ile Tyr Thr Pro Thr Val Gly Ala Ala Cys Glu Arg Phe
 130 135 140
 Ser Glu Ile Tyr Arg Arg Ser Arg Gly Val Phe Ile Ser Tyr Gln Asn
 145 150 155 160
 Arg His Asn Met Asp Asp Ile Leu Gln Asn Val Pro Asn His Asn Ile
 165 170 175
 Lys Val Ile Val Val Thr Asp Gly Glu Arg Ile Leu Gly Leu Gly Asp
 180 185 190
 Gln Gly Ile Gly Gly Met Gly Ile Pro Ile Gly Lys Leu Ser Leu Tyr
 195 200 205
 Thr Ala Cys Gly Gly Ile Ser Pro Ala Tyr Thr Leu Pro Val Val Leu
 210 215 220
 Asp Val Gly Thr Asn Asn Gln Gln Leu Leu Asn Asp Pro Leu Tyr Met
 225 230 235 240
 Gly Trp Arg His Pro Arg Ile Thr Asp Asp Glu Tyr Tyr Gln Phe Val
 245 250 255
 Asp Asp Phe Ile Gln Ala Val Lys His Arg Trp Pro Asp Val Leu Leu
 260 265 270
 Gln Phe Glu Asp Phe Ala Gln Lys Asn Ala Met Pro Leu Leu Asn Arg
 275 280 285
 Tyr Arg Asp Glu Ile Cys Ser Phe Asn Asp Asp Ile Gln Gly Thr Ala
 290 295 300
 Ala Val Thr Val Gly Thr Leu Ile Ala Ala Ser Arg Ala Ala Gly Ser
 305 310 315 320
 Gln Leu Ser Tyr Gln Lys Ile Val Phe Leu Gly Ala Gly Ser Ala Gly
 325 330 335
 Cys Gly Ile Ala Glu Gln Ile Ile Ala Gln Thr Gln Arg Glu Gly Leu
 340 345 350
 Ser Glu Glu Leu Ala Arg Ser Arg Val Phe Met Val Asp Arg Phe Gly
 355 360 365
 Leu Leu Thr Asp Gly Met Pro Asn Leu Leu Pro Phe Gln Thr Lys Leu
 370 375 380
 Val Gln Lys Arg Glu Asn Leu Lys Asn Trp Asp Thr Asp Asn Glu Val
 385 390 395 400
 Leu Ser Leu Leu Asp Val Val Arg Asn Val Lys Pro Asp Ile Leu Ile
 405 410 415
 Gly Val Ser Gly Gln Thr Gly Leu Phe Thr Glu Glu Ile Ile Arg Glu
 420 425 430
 Met His Lys His Cys Glu Arg Pro Ile Val Met Pro Leu Ser Asn Pro
 435 440 445
 Thr Ser Arg Val Glu Ala Thr Pro Gln Asp Ile Ile Ala Trp Thr Glu

450 455 460
 Gly Asn Ala Leu Val Ala Thr Gly Ser Pro Phe Asp Pro Val Val Trp
 465 470 475 480
 Lys Asp Lys Leu Tyr Pro Ile Ala Gln Cys Asn Asn Ser Tyr Ile Phe
 485 490 495
 Pro Gly Ile Gly Leu Gly Val Ile Ala Ser Gly Ala Ser Arg Ile Thr
 500 505 510
 Asp Glu Met Leu Met Ser Ala Ser Glu Thr Leu Ala Gly His Ser Pro
 515 520 525
 Leu Val Asn Asn Gly Glu Gly Leu Val Leu Pro Glu Leu Lys Asp Ile
 530 535 540
 His Lys Val Ser Arg Ala Ile Ala Phe Ala Val Gly Lys Met Ala Gln
 545 550 555 560
 Gln Gln Gly Val Ala Val Lys Thr Ser Ala Asp Ala Leu Gln Gln Ala
 565 570 575
 Ile Asp Asp Asn Phe Trp Met Pro Glu Tyr Arg Ser Tyr Arg Arg Thr
 580 585 590
 Ser Ile
 595

<210> 8028

<211> 572

<212> PRT

<213> *Enterobacter cloacae*

<400> 8028

Ala Thr Met Ser Thr Leu Leu Thr Ala His Ser Leu Arg Val Asp Thr
 1 5 10 15
 Ala Phe Gly Thr Leu Phe Asp Ser Leu Ser Phe Thr Leu Lys Lys Gly
 20 25 30
 Asp Arg Ile Gly Leu Leu Gly Asp Asn Gly Cys Gly Lys Ser Thr Leu
 35 40 45
 Leu Lys Ile Leu Asp Gly Thr Gln Ser Pro Ala Ala Gly Thr Val Ser
 50 55 60
 Leu Ala Gly His Cys Leu Leu Ala Arg Val Glu Gln His Leu Pro Glu
 65 70 75 80
 Thr Leu Tyr Pro Leu Thr Met Leu Asp Ala Val Leu Ala Gln Leu Pro
 85 90 95
 Thr Gly Glu Arg Asp Ser Leu Arg Trp Lys Ala Glu Thr Leu Leu Ala
 100 105 110
 Gly Met Gly Phe Thr Thr Gln Glu Thr Ala Leu Gln Ser Ala Thr Leu
 115 120 125
 Ser Gly Gly Gln His Thr Arg Leu Leu Leu Ala Arg Ala Leu Ile Ser
 130 135 140
 Asp Pro Asp Leu Leu Leu Leu Asp Glu Pro Ser Asn His Leu Asp Leu
 145 150 155 160
 Pro Thr Leu Leu Trp Leu Glu Gln Phe Leu Gln Ser Trp Ser Gly Ser
 165 170 175
 Phe Val Leu Val Ser His Asp Arg Gln Leu Leu Asp Ala Ile Thr Asn
 180 185 190
 Gly Ser Trp Ile Leu Arg Asp Lys Thr Leu His Tyr Phe Ala Leu Pro
 195 200 205
 Cys Thr Ala Ala Arg Gln Ala Leu Glu Ala Lys Asp Glu Ser Asp Ala
 210 215 220
 Leu Arg His Lys Ala Glu Gln Lys Glu Ile Asp Arg Val Thr Ala Ser
 225 230 235 240
 Ala Lys Arg Leu Ala Thr Trp Gly Lys Val Tyr Asp Asn Glu Asp Leu
 245 250 255
 Ser Arg Lys Ala Lys Gln Met Glu Lys Gln Val Glu Arg Leu Lys Glu
 260 265 270
 Asn Gln Thr Glu Leu Thr Ala Gly Ser Pro Trp Thr Leu Thr Leu Arg

275 280 285
 Gly Asp Ala Leu Arg Ala Asp Arg Leu Leu Glu Ile Thr Asp Leu Gly
 290 295 300
 Val Pro Pro Ala Pro Gly Leu Pro Asp Leu Phe Thr Leu Val Ser Ala
 305 310 315 320
 Arg Leu Lys Ser Gly Asp Arg Val Ala Ile Val Gly Arg Asn Gly Cys
 325 330 335
 Gly Lys Ser Ser Leu Leu Lys Leu Ile Trp Arg His Phe Arg Asp Glu
 340 345 350
 Ile Ser Asp Glu Arg Leu Lys Arg His Pro Arg Val Ser Pro Gly Tyr
 355 360 365
 Tyr Asp Gln Thr Leu His Gln Leu Pro Asp Asp Thr Ala Leu Leu Asp
 370 375 380
 Ala Leu Glu Pro Phe Ala Pro Asp Pro Gln Thr Arg Lys Met Ala Leu
 385 390 395 400
 Ile Ser Ala Gly Phe Pro Trp Ala Arg His Gly Gln Lys Val Ser Thr
 405 410 415
 Leu Ser Gly Gly Glu Arg Ser Arg Leu Leu Phe Val Gly Leu Thr Leu
 420 425 430
 Ala Arg Tyr Ser Leu Leu Met Leu Asp Glu Pro Thr Asn His Leu Asp
 435 440 445
 Met Glu Gly Lys Glu Ala Leu Ala Glu Thr Leu Gln Phe Glu Gly
 450 455 460
 Gly Val Leu Leu Val Ser His Asp Arg Gln Leu Ile Ser Gln Cys Cys
 465 470 475 480
 Asn Arg Phe Trp Leu Ile Glu Asp Gly Arg Leu Ser Glu Trp His Asp
 485 490 495
 Ala Glu Ala Val Phe Glu Arg Leu Arg Glu Asp Ala Gly Pro Ala Val
 500 505 510
 Pro Glu Ala Ser Asn Ala Ala Leu Lys Ala Pro Ser Ser Ala Ser Asp
 515 520 525
 Asp Leu Leu Glu Arg Leu Val Ala Leu Glu Thr Leu Leu Glu Glu Asp
 530 535 540
 Leu Ala Arg Lys Pro Lys Tyr Gln Lys Pro Gln Leu Gln Ala Gln Trp
 545 550 555 560
 Arg Lys Glu Ile Glu Glu Ile Glu Ala Gln Leu
 565 570

<210> 8029

<211> 350

<212> PRT

<213> *Enterobacter cloacae*

<400> 8029

Val Thr Ala His Ala Gly Gly Lys Cys Met Thr Phe Trp Ser Ile Val
 1 5 10 15
 Arg Gln Arg Cys Trp Gly Leu Ile Leu Val Val Ala Gly Val Cys Ile
 20 25 30
 Ile Thr Phe Ile Ile Ser His Leu Ile Pro Gly Asp Pro Ala Arg Leu
 35 40 45
 Leu Ala Gly Asp Arg Ala Ser Asp Glu Ile Val Gln Gly Ile Arg Gln
 50 55 60
 Gln Leu Gly Leu Asp Gln Pro Leu Tyr Ile Gln Phe Gly Arg Tyr Val
 65 70 75 80
 Glu Ala Leu Ala His Gly Asp Leu Gly Thr Ser Ile Arg Thr Gly Arg
 85 90 95
 Pro Val Ala Glu Asp Leu Lys Ala Phe Phe Pro Ala Thr Leu Glu Leu
 100 105 110
 Ala Phe Cys Ser Leu Leu Leu Ala Leu Val Ile Gly Val Pro Leu Gly
 115 120 125
 Ile Leu Ser Ala Val Tyr Arg Asn Arg Trp Leu Asp His Leu Val Arg

130 135 140
 Leu Met Ala Met Thr Gly Ile Ser Thr Pro Ala Phe Trp Leu Gly Leu
 145 150 155 160
 Gly Val Ile Val Leu Phe Tyr Gly Gln Leu Gln Ile Leu Pro Gly Gly
 165 170 175
 Gly Arg Leu Asp Asp Trp Leu Asp Pro Pro Ala His Val Thr Gly Phe
 180 185 190
 Tyr Leu Leu Asp Ala Leu Leu Glu Gly Asn Gly Glu Val Phe Phe Asn
 195 200 205
 Ala Leu Gln His Leu Ile Leu Pro Ser Leu Thr Leu Ala Phe Val His
 210 215 220
 Leu Gly Ile Val Ala Arg Gln Val Arg Ser Ala Met Leu Glu Gln Leu
 225 230 235 240
 Ser Glu Asp Tyr Ile Arg Thr Ala Arg Ala Ser Gly Leu Pro Gly Trp
 245 250 255
 Tyr Ile Val Leu Arg Tyr Ala Leu Pro Asn Ala Met Ile Pro Ser Ile
 260 265 270
 Thr Val Leu Gly Leu Ala Leu Gly Asp Leu Leu Tyr Gly Ala Val Leu
 275 280 285
 Thr Glu Thr Val Phe Ala Trp Pro Gly Met Gly Ala Trp Val Val Thr
 290 295 300
 Ser Ile Gln Ala Leu Asp Phe Pro Ala Val Met Gly Phe Ala Val Val
 305 310 315 320
 Val Ser Leu Ala Tyr Val Phe Val Asn Leu Val Val Asp Leu Leu Tyr
 325 330 335
 Leu Trp Ile Asp Pro Arg Ile Gly Arg Gly Gly Ala Glu
 340 345 350

<210> 8030

<211> 289

<212> PRT

<213> Enterobacter cloacae

<400> 8030

Gln Arg Gly Gly Met Thr Thr Lys Pro Glu Val Leu Ser Arg Ile Glu
 1 5 10 15
 Ala Thr Phe Ser Gln Leu Thr Pro Ser Glu Lys Arg Val Ala Ser Trp
 20 25 30
 Met Leu Ala His Val Gly Gln Ile Pro Phe Glu Thr Ala Glu Ser Val
 35 40 45
 Ala Leu Ala Thr Ala Thr Ser Gly Ile Thr Val Gly Arg Phe Leu Arg
 50 55 60
 Lys Leu Gly Tyr Arg Asn Leu Asp Asp Ala Lys Lys Ser Leu Arg Asp
 65 70 75 80
 Pro His Gln Pro Trp Gly Ile Asn Glu Arg Leu Asp Ser Trp Lys Gln
 85 90 95
 Gln Gln Pro Leu Ser Asp Arg Leu Gln Asn Ser Leu Ser Leu Glu Val
 100 105 110
 Asp Ala Ile Ala His Val Tyr Gln Leu Ala Gln Ser Glu Thr Phe Arg
 115 120 125
 Gln Val Val Gln Gln Leu Thr His Ala Asp Ala Val Phe Val Leu Gly
 130 135 140
 Ile Gln Ser Thr Arg Gly Ile Ala Asn Ala Phe Phe Ser His Leu Glu
 145 150 155 160
 Tyr Leu Arg Pro Arg Val Ser Tyr Ser Glu Gly Leu Ser Gly Ser Trp
 165 170 175
 Val Glu Ser Leu Asn Ser Gly Phe Ala Asn Pro Tyr Ile Val Leu Thr
 180 185 190
 Asp Thr Arg Ala Tyr Ser Ala Ile Ala Arg Gln Tyr Cys Arg Val Ala
 195 200 205
 Ser Glu Lys Gly Leu Ala Met Ala Leu Ile Thr Asp Ile Trp Cys Pro

210	215	220
Trp Ala Arg Asp Tyr	Pro Ile Asp Leu	Leu Gln Val Lys Thr Asp Thr
225	230	235
Gly His Phe Trp Asp	Ser Leu Ala Pro Val	Ser Cys Leu Phe Asn Leu
245	250	255
Leu Leu Ser Gly Val Val	Glu Ala Leu Gly Asp	Ala Leu Pro Glu Arg
260	265	270
Leu Ala Ile Asn Arg Gln	Leu Gln Gln Glu Phe	Gly Gln Phe Glu Arg
275	280	285

<210> 8031

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 8031

Arg Ser Gly Ala Met	Pro Glu Glu Ser	Gln Leu Ile Asp	Val Ala Lys
1	5	10	15
Thr Phe Pro Thr	Leu His Ile Asp	Leu Lys Tyr Ala	Thr Ala Asp Asn
20	25	30	
Ile Thr Gly Arg	Pro Ile Tyr Gln	His Ala Ala Cys	Leu Leu His Thr
35	40	45	
Asp Ala Ala Thr	Ala Leu Ala Lys	Ala Ile Gly Ile	Ala Ala Leu Ala
50	55	60	
Gly Leu Lys Leu	Val Val Tyr Asp	Ala Tyr Arg Pro	Gln Gln Ala Gln
65	70	75	80
Ser Gln Leu Trp	Asp Ala Cys Pro	Asn Pro Glu Tyr	Val Val Asp Val
85	90	95	
Ala Ile Gly Ser	Asn His Ser Arg	Gly Thr Ala Ile	Asp Val Thr Leu
100	105	110	
Met Asp Glu His	Asp Asn Val Leu	Asp Met Gly Ala	Gly Phe Asp Glu
115	120	125	
Met His Asp Arg	Ser His Ala Trp	His Pro Ser Val	Pro Pro Glu Ala
130	135	140	
Gln Arg Asn Arg	Leu Leu Asn Ala	Val Met Tyr Gly	Gly Gly Phe
145	150	155	160
Val Gly Ile Ser	Ser Glu Trp Trp	His Phe Glu Leu	Pro Asn Ala Ala
165	170	175	
Ser Tyr Pro Leu	Leu Asp Asp Gln	Phe Ala Cys Tyr	Pro Thr Thr His
180	185	190	
Ser Leu			

195

<210> 8032

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 8032

Phe Trp Ser Pro	Ala Met Lys Thr	Thr Leu Leu Thr	Thr Leu Ile Ala
1	5	10	15
Ala Thr Leu Ala	Leu Ser Ala Pro	Leu Ala Leu Ala	Val Pro Lys
20	25	30	
Asp Met Leu Val	Ile Gly Lys Ala	Ala Asp Pro Gln	Thr Leu Asp Pro
35	40	45	
Ala Val Thr Ile	Asp Asn Asn Asp	Trp Thr Val Thr	Tyr Pro Ser Tyr
50	55	60	
Gln Arg Leu Val	Lys Tyr Lys Pro	Gly Thr Thr	Glu Val Glu Gly Asp
65	70	75	80

Leu Ser Thr Gly Trp Lys Ala Ser Asp Gln Lys Glu Trp Thr Phe
 85 90 95
 Thr Leu Ala Asp Asn Ala Lys Phe Ser Asp Gly Thr Pro Val Thr Ala
 100 105 110
 Glu Ala Val Lys Leu Ser Phe Glu Arg Leu Leu Lys Ile Asn Gln Gly
 115 120 125
 Pro Ser Glu Ala Phe Pro Lys Asp Leu Lys Val Asp Ala Val Asp Glu
 130 135 140
 His Thr Val Lys Phe Thr Leu Ser Gln Pro Phe Ala Pro Phe Leu Tyr
 145 150 155 160
 Thr Leu Ala Asn Asp Gly Ala Ser Ile Val Asn Pro Ala Val Leu Lys
 165 170 175
 Ala Asn Ala Ala Asp Asp Ala Arg Gly Phe Leu Ala Gln Asn Thr Ala
 180 185 190
 Gly Ser Gly Pro Phe Met Leu Lys Ser Trp Arg Lys Gly Gln Gln Leu
 195 200 205
 Val Met Val Pro Asn Pro His Trp Pro Gly Glu Lys Pro His Phe Lys
 210 215 220
 Arg Val Ser Val Lys Ile Ile Gly Glu Ser Ala Ser Arg Arg Leu Gln
 225 230 235 240
 Leu Ser Arg Gly Asp Leu Asp Ile Ala Asp Ala Leu Pro Val Asp Gln
 245 250 255
 Leu Ala Ala Leu Lys Gln Glu Gly Lys Val Ala Val Ala Glu Tyr Pro
 260 265 270
 Ser Leu Arg Val Thr Tyr Leu Tyr Leu Asn Asn Ser Lys Pro Pro Met
 275 280 285
 Asn Gln Val Asp Leu Arg Arg Ala Val Ser Trp Ala Thr Asp Tyr Gln
 290 295 300
 Gly Met Val Lys Gly Ile Leu Ser Gly Asn Gly Lys Gln Met Arg Gly
 305 310 315 320
 Pro Ile Pro Glu Gly Met Trp Gly Phe Asp Ala Asn Ala Met Gln Tyr
 325 330 335
 Ser Phe Asp Glu Ala Lys Ala Lys Ala Ala Leu Glu Lys Val Asn Asp
 340 345 350
 Lys Pro Ala Ser Leu Thr Phe Leu Tyr Ser Asp Asn Asp Pro Asn Trp
 355 360 365
 Glu Pro Ile Ala Leu Ser Thr Gln Ala Ser Leu Gly Lys Leu Gly Ile
 370 375 380
 Asn Val Lys Leu Glu Lys Leu Ala Asn Ala Thr Met Arg Asp Arg Val
 385 390 395 400
 Gly Lys Gly Asp Tyr Asp Ile Ala Ile Gly Asn Trp Ser Pro Asp Phe
 405 410 415
 Ala Asp Pro Tyr Met Phe Met Asn Tyr Trp Phe Glu Ser Asp Lys Lys
 420 425 430
 Gly Leu Pro Gly Asn Arg Ser Phe Tyr Glu Asn Lys Glu Val Asp Ala
 435 440 445
 Leu Leu Gln Ala Ala Leu Lys Thr Thr Asp Gln Ala Glu Arg Thr Lys
 450 455 460
 Asp Tyr Gln Gln Ala Gln Lys Val Val Ile Asp Glu Ala Ala Tyr Val
 465 470 475 480
 Tyr Leu Phe Gln Lys Asn Tyr Gln Leu Ala Met Asn Lys Glu Val Lys
 485 490 495
 Gly Phe Thr Phe Asn Pro Met Leu Glu Gln Val Phe Asn Ile Ala Thr
 500 505 510
 Met Ser Lys
 515

<210> 8033

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 8033

Ser Val Trp Arg Trp Ser Ser Arg Pro Ala Gly Ser Gln Ile Arg Arg
 1 5 10 15
 Glu Ala Val Met Ser Asp Ser Val Leu Ser Ile Glu Asp Leu His Leu
 20 25 30
 Ser Phe Pro Ile Phe Arg Gly Asp Val His Ala Leu Asn His Val Ser
 35 40 45
 Leu Glu Ile Gly Arg Gly Glu Ile Val Gly Val Val Gly Glu Ser Gly
 50 55 60
 Ser Gly Lys Ser Val Thr Ala Met Leu Ala Met Arg Leu Leu Pro Glu
 65 70 75 80
 Gly Ser Tyr His Val His His Gly Arg Val Thr Leu Leu Gly Glu Asp
 85 90 95
 Val Leu Asn Ala Ser Glu Lys Gln Leu Arg Gln Trp Arg Gly Ala Arg
 100 105 110
 Val Ala Met Ile Phe Gln Glu Pro Met Thr Ala Leu Asn Pro Thr Arg
 115 120 125
 Arg Ile Gly Arg Gln Met Val Glu Val Ile Arg Gln His Gln Ser Leu
 130 135 140
 Ser Arg Arg Asp Ala Gln Gln Lys Ala Ile Ala Leu Leu Gly Glu Met
 145 150 155 160
 Gln Ile Pro Asp Ala Ala Gln Val Met Asp Arg Tyr Pro Phe Glu Leu
 165 170 175
 Ser Gly Gly Met Arg Gln Arg Val Met Ile Ala Leu Ala Phe Ser Cys
 180 185 190
 Glu Pro Glu Leu Ile Ile Ala Asp Glu Pro Thr Thr Ala Leu Asp Val
 195 200 205
 Thr Val Gln Arg Gln Val Leu Arg Leu Leu Lys His Lys Ala Arg Ala
 210 215 220
 Ser Gly Thr Ser Val Leu Phe Ile Ser His Asp Met Ala Val Val Ser
 225 230 235 240
 Gln Leu Cys Asp Arg Met Tyr Val Met Tyr Ala Gly Ser Val Ile Glu
 245 250 255
 Ser Gly Ser Thr Gln Thr Leu Ile His His Pro Val His Pro Tyr Ser
 260 265 270
 Ile Gly Leu Leu Arg Cys Ala Pro Glu Asn Gly Glu Pro Arg Glu Ile
 275 280 285
 Leu Pro Ala Ile Pro Gly Thr Val Pro Asn Leu Ser His Leu Pro Arg
 290 295 300
 Gly Cys Ala Phe Arg Glu Arg Cys Phe Ala Ala Gly Ala Lys Cys Ser
 305 310 315 320
 Glu Thr Pro Arg Leu Ile Ser Thr Gly Ala Glu Gly Gln Gln Ala Ala
 325 330 335
 Cys Trp Tyr Pro Gln Gln Glu Arg Arg His Val
 340 345

<210> 8034

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 8034

Ala Ser Pro Val Ser Gly Ile Leu Ala Asn Glu Glu Ile Arg Thr Ile
 1 5 10 15
 Glu Thr Phe Leu Lys Asn Arg Asp Met Thr Thr Ile Ala Arg Leu
 20 25 30
 Ala Leu Leu Thr Thr Leu Phe Thr Pro Ala Val Phe Ala Ala Pro Leu
 35 40 45
 Thr Val Asp Thr Tyr Asn Pro Gln Glu Lys Gly Ile Phe Ala Val Ser
 50 55 60

Ser Thr Leu Val Ser Gly Pro Lys Glu Ala Val Leu Phe Asp Ala Gln
 65 70 75 80
 Phe Ser Val Lys Asp Gly Glu Ala Leu Val Glu Lys Ile Arg His Ser
 85 90 95
 Gly Lys Thr Leu Asn Lys Ile Val Ile Thr Ser Gly Asp Pro Asp Phe
 100 105 110
 Tyr Phe Gly Leu Gln Pro Leu Val Lys Ala Phe Pro Asn Ala Lys Val
 115 120 125
 Val Ala Thr Gln Gln Val Val Asp His Ile Arg Ala Thr Lys Asp Ala
 130 135 140
 Lys Leu Ala Phe Trp Gly Pro Gln Met Lys Asp Gly Ala Pro Ser Gln
 145 150 155 160
 Leu Tyr Leu Pro Gln Val Leu Ala Ser Thr Thr Phe Met Ile Asp Gly
 165 170 175
 Glu Arg Val Asn Ile Glu Glu Pro Glu Ser Tyr Ala Ala Tyr Val Trp
 180 185 190
 Ile Pro Ser Ala Lys Thr Ile Leu Gly Gly Thr Gly Val Ser Trp Gly
 195 200 205
 Ile His Val Trp Thr Ala Asp Thr Gln Thr Pro Glu Ser Arg Lys Gln
 210 215 220
 Trp Gln Gln Thr Leu Asp Ser Met Ala Ala Leu Lys Pro Glu His Val
 225 230 235 240
 Ile Pro Gly His Tyr Leu Gly Thr Pro Pro Ala Gly Thr Gly Ala Ile
 245 250 255
 Asp Phe Thr Arg Arg Tyr Leu His Gln Phe Glu Gln Ala Leu Met Thr
 260 265 270
 His Lys Ala Ser Thr Gly Val Ile Ser Thr Met Lys Lys Gln Trp Pro
 275 280 285
 Asn Leu Ala Glu Ala Ser Ser Leu Glu Leu Ser Ala Lys Val Asn Thr
 290 295 300
 Gly Glu Met Lys Trp
 305 310

<210> 8035

<211> 89

<212> PRT

<213> *Enterobacter cloacae*

<400> 8035

Ile Thr Ile Leu His Ala Val Thr Leu Asn Arg Gln Arg His Gly Gly
 1 5 10 15
 Ser Met Phe Thr Tyr Tyr Pro Ala His Thr Thr Ala Ala Gln Pro Glu
 20 25 30
 Leu Val Asn Ala Ile Ala Gln Gly Leu Gln Ala Glu His Gly Val Val
 35 40 45
 Thr Glu Asp Asp Ile Leu Met Glu Leu Thr Lys Trp Val Glu Ala Thr
 50 55 60
 Asp Asn Asp Ile Leu Ser Asp Ile Tyr Gln Gln Thr Ile Asn Tyr Val
 65 70 75 80
 Val Ser Gly Gln Asn Ala Pro Leu
 85

<210> 8036

<211> 341

<212> PRT

<213> *Enterobacter cloacae*

<400> 8036

Lys Glu Lys His Met Lys Ala Ala Val Val Thr Gln Asp His Gln Val
 1 5 10 15
 Asn Val Thr Glu Lys Thr Leu Arg Ala Leu Lys His Gly Glu Ala Leu

20 25 30
 Leu Lys Met Glu Cys Cys Gly Val Cys His Thr Asp Leu His Val Lys
 35 40 45
 Asn Gly Asp Phe Gly Asp Lys Thr Gly Val Ile Leu Gly His Glu Gly
 50 55 60
 Ile Gly Ile Val Lys Glu Ile Gly Pro Gly Val Thr Ser Leu Lys Val
 65 70 75 80
 Gly Asp Arg Ala Ser Val Ala Trp Phe Gly Glu Gly Cys Gly His Cys
 85 90 95
 Glu Tyr Cys Asn Thr Gly Asn Glu Thr Leu Cys Arg Asp Val Lys Asn
 100 105 110
 Ala Gly Tyr Ser Val Asp Gly Gly Met Ala Glu Glu Cys Ile Val Thr
 115 120 125
 Ala Asp Tyr Ala Val Lys Val Pro Asp Gly Leu Asp Ser Ala Ala Ala
 130 135 140
 Ser Ser Ile Thr Cys Ala Gly Val Thr Thr Tyr Lys Ala Val Lys Val
 145 150 155 160
 Ser Asp Ile Lys Pro Gly Gln Trp Ile Ala Ile Tyr Gly Leu Gly Gly
 165 170 175
 Leu Gly Asn Leu Ala Leu Gln Tyr Ala Lys Asn Val Phe Asn Ala Lys
 180 185 190
 Val Ile Ala Ile Asp Val Asn Asp Glu Gln Leu Lys Leu Ala Ala Ser
 195 200 205
 Met Gly Ala Asp Leu Thr Val Asn Ser Arg Ser Glu Asp Ala Ala Lys
 210 215 220
 Val Ile Gln Glu Lys Thr Gly Gly Ala His Ala Ala Val Val Thr Ala
 225 230 235 240
 Val Ala Lys Ala Ala Phe Asn Ser Ala Val Asp Ala Val Arg Ala Gly
 245 250 255
 Gly Arg Val Val Ala Val Gly Leu Pro Pro Glu Ala Met Ser Leu Asp
 260 265 270
 Ile Pro Arg Leu Val Leu Asp Gly Ile Gln Val Val Gly Ser Leu Val
 275 280 285
 Gly Thr Arg Gln Asp Leu Leu Glu Ala Phe Gln Phe Ala Ala Glu Gly
 290 295 300
 Lys Val Ile Pro Lys Val Thr Met Arg Pro Leu Glu Asp Ile Asn Ala
 305 310 315 320
 Ile Phe Lys Glu Met Glu Gln Gly Gln Ile Arg Gly Arg Met Val Ile
 325 330 335
 Asp Leu Arg Ser
 340

<210> 8037

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 8037

Arg Thr Lys Gly Ser Ser Met Lys Lys Gln Ile Leu Ile Val Gly Ser
 1 5 10 15
 Gly Phe Ser Gly Met Trp Ala Ala Val Ser Ala Ala Arg Leu Ser Ala
 20 25 30
 Leu Ala Gly Asn Asn Ser Leu Ser Ile Ala Val Leu Ala Pro Val Ala
 35 40 45
 Glu Leu Arg Val Arg Pro Arg Phe Tyr Glu Glu Asn Val Ser Thr Met
 50 55 60
 Val Ala Pro Leu Thr Glu Leu Phe Ala Glu Leu Gly Ile Thr Phe Ile
 65 70 75 80
 Ala Gly Glu Ala Gln Arg Ile Asp Thr Ser Ser Lys Thr Val Leu Tyr
 85 90 95
 Arg Asp Ser Asn Gly Ala Ile Ala Asp Val Ala Trp Glu Arg Leu Ile

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      100      105      110
Leu Ala Thr Gly Ser Gln Thr Lys Arg Pro Pro Val Ala Gly Leu Ala
      115      120      125
Glu Tyr Ala Phe Asp Ile Asp Gln Leu Asp Ser Ala Arg Leu Phe Glu
      130      135      140
Gln His Leu Asp Ser Leu Val Ser Arg Pro Ser Thr Pro Glu Arg Asn
      145      150      155      160
Thr Val Val Val Cys Gly Gly Gly Phe Thr Gly Ile Glu Leu Ala Thr
      165      170      175
Glu Leu Pro Ala Arg Leu Arg Thr Arg Phe Gly Ala Asn Thr Lys Thr
      180      185      190
Lys Ile Ile Val Val Glu Arg Gly Ala Thr Ile Gly Gly Arg Tyr Ser
      195      200      205
Glu Ala Leu Arg Asn Thr Ile Glu Glu Ala Ser Ser Ala Leu Gly Val
      210      215      220
Glu Trp Arg Leu Asn Ser Glu Val Glu Ala Ile Asp Ala Ser Gly Val
      225      230      235      240
Thr Leu Lys Asn Gly Glu Arg Ile Ala Ser Ala Thr Val Val Trp Thr
      245      250      255
Ala Gly Val Glu Ala Asn Pro Leu Ser Leu Gln Ile Asp Gly Glu Arg
      260      265      270
Asp Thr Gln Gly Arg Leu Ile Val Thr Asp Thr Leu Gln Val Pro Ala
      275      280      285
His Arg Glu Val Tyr Ala Thr Gly Asp Met Ala His Ala Lys Thr Asp
      290      295      300
Asp Val Gly Asn Thr Ala Leu Met Thr Cys Gln His Ala Ile Gln Leu
      305      310      315      320
Gly Lys Phe Ala Gly His Asn Ala Ala Ser Leu Leu Asn Val Glu
      325      330      335
Pro Tyr Pro Tyr Arg Gln Val Asn Tyr Val Thr Cys Leu Asp Leu Gly
      340      345      350
Ser Trp Gly Ala Val Tyr Thr Glu Gly Trp Asp Gln Arg Ile Lys Ser
      355      360      365
Val Arg Glu Glu Gly Lys Lys Ile Lys Val Ala Ile Thr Asn Glu Leu
      370      375      380
Ile Tyr Pro Pro Ala Ala Asp Lys Ala Val Ala Phe Ala Ala Ala Asp
      385      390      395      400
Pro Leu Ala Lys Phe Val
      405

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<210> 8038

<211> 704

<212> PRT

<213> Enterobacter cloacae

<400> 8038

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Thr Glu Arg Gln Leu Ile Gly Thr Glu Gln Ile Thr Phe Leu Gln Ser
1      5      10      15
Gly Ile Asn Ala Leu Arg Arg Val Val Ile Asn Tyr Ser Val Val Val
      20      25      30
Leu Thr Leu Ser Gly Ala Phe Gln Pro Gly Glu Ile Ile Met Ser Thr
      35      40      45
Gly Lys Phe Ile Leu His Ser Gly Tyr Ile Pro Ser Gly Asp Gln Pro
      50      55      60
Glu Ala Ile Ala Arg Leu Ile Ala Gly Val Glu Ala Gly Ala Thr His
      65      70      75      80
Gln Thr Leu Gln Gly Ile Thr Gly Ser Gly Lys Thr Phe Thr Met Ala
      85      90      95
Asn Val Ile His Arg Leu Gln Arg Pro Thr Leu Ile Leu Ala Pro Asn
      100      105      110
Lys Thr Leu Thr Ala Gln Leu Tyr Leu Glu Met Lys Gln Phe Phe Pro

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Glu	Ala	Val	Glu	Tyr	Phe	Val	Ser	Tyr	Tyr	Asp	Phe	Phe	Gln	Pro
130	115				135					140				
Glu	Val	Tyr	Ile	Pro	Gly	Ser	Asp	Arg	Phe	Ile	Pro	Lys	Ser	Asp
145					150					155				160
Ile	Asn	Asp	His	Leu	Glu	Arg	Leu	Arg	Leu	Ser	Thr	Thr	Lys	Ala
				165					170					175
Ile	Glu	Arg	Gln	Asp	Val	Ile	Val	Val	Ala	Ser	Val	Ser	Ser	Ile
				180				185					190	Tyr
Gly	Leu	Gly	Asp	Pro	Asp	Ala	Tyr	Arg	Glu	Ile	Gln	Ile	Pro	Val
				195				200				205		Tyr
Pro	Gly	Arg	Gln	Leu	Ala	Gln	Arg	Glu	Leu	Ile	His	Gln	Leu	Ala
				210				215				220		Arg
Leu	Gln	Tyr	Ala	Arg	Thr	Asp	Lys	Thr	Leu	Gly	Arg	Ala	Met	Phe
				225						235				240
Val	Arg	Gly	Asp	Val	Ile	Asp	Ile	Phe	Pro	Ala	Asp	Ser	Glu	His
				245				250						255
Ala	Ile	Arg	Val	Glu	Leu	Phe	Asp	Asp	Val	Ile	Glu	Ser	Ala	Lys
				260				265					270	Trp
Ile	Asp	Pro	Val	Ser	Gly	Lys	Ile	Ala	Gly	Asp	Ile	Glu	His	Tyr
				275				280				285		Leu
Ile	Ser	Pro	Lys	Thr	Leu	Phe	Val	Thr	Pro	Thr	Ala	Lys	Ile	Pro
				290				295				300		Ser
Ala	Thr	Lys	Ser	Ile	Leu	Thr	Asp	Met	Glu	Lys	Arg	Val	Ala	Glu
				305						315				320
Asn	Lys	Ala	Asn	Arg	Leu	Ile	Glu	Ala	Glu	Arg	Leu	Tyr	Glu	Arg
				325					330					335
Asn	Asn	Asp	Val	Glu	Met	Ile	Arg	Glu	Leu	Gly	Tyr	Cys	Ser	Gly
				340				345					350	Met
Glu	Asn	Tyr	Ser	Cys	Tyr	Phe	Ser	Asp	Arg	Asn	Pro	Glu	Leu	Pro
				355				360				365		Pro
Thr	Thr	Leu	Leu	Asp	Tyr	Leu	Pro	Lys	Asn	Gly	Leu	Leu	Phe	Val
				370				375				380		Asp
Glu	Ser	His	Val	Met	Val	Pro	Gln	Ile	Ser	Ala	Met	Tyr	Ser	Gly
				385						395				400
Gln	Ser	Arg	Lys	Asp	Thr	Leu	Ile	Asp	Phe	Gly	Phe	Arg	Leu	Pro
				405					410					415
Ser	Lys	Asn	Asn	Arg	Pro	Leu	Ser	Phe	Ala	Glu	Phe	Glu	Lys	Ile
				420				425					430	Lys
Pro	Gln	Thr	Val	Phe	Val	Ser	Ala	Thr	Pro	Gly	Lys	Tyr	Glu	Leu
				435				440				445		Gln
Lys	Ser	Lys	Lys	Asn	Val	Val	Gln	Gln	Ile	Ile	Arg	Pro	Thr	Gly
				450				455				460		Leu
Leu	Asp	Pro	Glu	Ile	Glu	Val	Arg	Ser	Lys	Asp	Gln	Cys	Val	Glu
				465						475				480
Leu	Leu	Glu	Glu	Ile	Arg	His	Cys	Val	Asn	Arg	Asn	Asn	Arg	Val
				485				490					495	Leu
Val	Thr	Val	Leu	Thr	Lys	Lys	Thr	Ala	G					

Gln Ala Met Asp Glu Thr His Asn Arg Arg Glu Arg Gln Ile Ala Tyr
 610 615 620
 Asn Leu Glu His His Ile Lys Pro Val Thr Ser Val Arg Lys Arg Ser
 625 630 635 640
 Thr Glu Gln Asp Glu Ser Val Tyr Pro Ala Thr His Thr Glu Ala Phe
 645 650 655
 Cys Ser Thr Leu Ser Glu Leu Cys Glu Arg Ile Thr Val Lys Glu Lys
 660 665 670
 Gln Leu Leu Ala Ile Glu Asn Ser Gly Glu Glu Lys Asp Ile Glu Lys
 675 680 685
 Leu Arg Thr Glu Leu Ser Asp Leu Tyr Arg Gln Phe Ile Phe Met
 690 695 700

<210> 8039

<211> 903

<212> PRT

<213> Enterobacter cloacae

<400> 8039

Ala Pro His Gly Lys Glu Thr Met Thr Val Gly Ser Arg Trp Phe Lys
 1 5 10 15
 Phe Asp Phe His Asn His Thr Pro Ala Ser Asp Asp Tyr Lys Val Pro
 20 25 30
 Asp Leu Gln Pro Arg Glu Trp Leu Leu Ala Tyr Met Arg Gln Gln Val
 35 40 45
 Asp Cys Val Val Ile Ser Asp His Asn Ser Gly Ala Trp Ile Asp Val
 50 55 60
 Leu Lys Ala Glu Leu Ala Asn Met Ser Arg Asp Ala Ser Ser Gly Glu
 65 70 75 80
 Leu Ala Asp Phe Arg Pro Leu Thr Leu Phe Pro Gly Val Glu Leu Thr
 85 90 95
 Ala Thr Gly Asn Val His Ile Leu Ala Val Leu His Thr Gln Ser Thr
 100 105 110
 Ser Ala Glu Val Glu Arg Leu Leu Ala Gln Cys Asn Asn Asn Cys Pro
 115 120 125
 Ile Ser Arg Glu Thr Pro Asn His His Leu Val Leu Gln Leu Gly Pro
 130 135 140
 Ala Gly Ile Ile Ser Asn Ile Arg Arg Asn Pro Glu Ala Ile Cys Ile
 145 150 155 160
 Leu Ala His Ile Asp Ala Ala Lys Gly Val Leu Thr Ser Leu Thr Asn
 165 170 175
 Gln Gly Glu Leu Thr Ala Ala Phe Gln Ser Asn Pro His Ala Val Glu
 180 185 190
 Ile Arg His Arg Glu Glu Glu Ile Thr Asn Gly Thr His Arg Arg Leu
 195 200 205
 Ile Ala Asp Leu Pro Trp Leu Arg Gly Ser Asp Ala His His Pro Glu
 210 215 220
 Gln Ala Gly Val Arg Thr Cys Trp Leu Lys Met Ser Glu Pro Asp Phe
 225 230 235 240
 Asp Gly Leu Arg His Ala Leu Leu Asp Pro Glu Asn Cys Val Leu Phe
 245 250 255
 Asp Asp Asn Pro Pro Glu Ala Pro Ala Ser His Leu Arg Ser Leu Thr
 260 265 270
 Phe Arg Thr Arg Leu Cys Gln Pro Ala Asp Gln Tyr Gly Ala Ser Val
 275 280 285
 Glu Phe Ser Pro Phe Tyr Asn Ala Val Ile Gly Ser Arg Gly Ser Gly
 290 295 300
 Lys Ser Thr Leu Ile Glu Ser Ile Arg Leu Ala Met Arg Lys Thr Glu
 305 310 315 320
 Gly Leu Thr Val Ser Gln Arg Asn Lys Leu Asn Gln Phe Ser Gln Met
 325 330 335

Gly Met Gly Met Asp Ala Asp Ser Phe Ile Glu Cys Val Phe Arg Lys
 340 345 350
 Glu Gly Thr Asp Phe Arg Leu Ser Trp Arg Pro Asp Gly Arg Asn Glu
 355 360 365
 Leu His Ile Phe Ser Glu Gly Gln Trp Val Gln Asp Asn His Trp Ser
 370 375 380
 Pro Asp Arg Phe Pro Leu Ser Ile Tyr Ser Gln Lys Met Leu Tyr Glu
 385 390 400
 Leu Ala Ser Asp Thr Gly Ala Phe Leu Arg Val Cys Asp Glu Ser Gln
 405 410 415
 Val Val Asn Lys Arg Ala Trp Lys Glu Arg Trp Asp Gln Leu Glu Arg
 420 425 430
 Glu Tyr Leu Asn Glu Gln Ile Thr Leu Arg Gly His Leu Ala Ser Gln
 435 440 445
 Thr Ile Ala Asp Lys Leu Gln Gly Glu Leu Ser Asp Ala Glu Arg Ala
 450 455 460
 Val Ser Gln Leu Arg Ser Ser Ala Tyr Tyr Pro Val Cys Thr Arg Leu
 465 470 475 480
 Ala Thr Ala Arg Ala Glu Leu Ser Ala Ala Thr Leu Pro Leu Glu His
 485 490 495
 His Glu Gln His Val Ala Gly Leu Arg Ala Gln Glu Lys Glu Pro Val
 500 505 510
 Gln Val Pro Glu Leu Gln Val Glu Pro Ser Ala Thr Leu Thr Ala Phe
 515 520 525
 Met Thr Arg Leu Ser Asp Val Gln Gln Lys Tyr Asp Gln Arg Leu Asp
 530 535 540
 Thr Leu Leu Ser Asp Tyr Ala Ala Glu Leu Ser Thr Ile Arg Gln Asp
 545 550 555 560
 Pro Pro Leu Leu Ala Leu Glu Glu Ala Val Arg Asn Gln Glu Glu Thr
 565 570 575
 Val Gln Arg Glu Ala Met Val Leu Arg Glu Gln Gly Leu Asn Pro Asn
 580 585 590
 Val Leu Asp Glu Leu Met Thr Arg Cys Glu Ser Leu Lys Ser Glu Leu
 595 600 605
 Arg Asn Tyr Ala Asp Leu Asp Gly Thr Ile Ala Ala Ser Ala Ala Arg
 610 615 620
 Ser Thr Gly Leu Leu Ala Glu Met Arg Asn His Arg Met Val Leu Thr
 625 630 635
 Glu Lys Arg Lys Ala Phe Leu Ser Ser Leu Ser Leu Ser Ala Leu Asp
 645 650 655
 Ile Lys Ile Leu Pro Leu Cys Ala Pro His Glu Asp Thr Val Ser Gly
 660 665 670
 Tyr Gln Ala Val Thr Gly Ile Gly Asn Phe Ala Asp Arg Ile Tyr Asp
 675 680 685
 Asp Gly Asp Gly Ser Gly Leu Leu His Ser Phe Ile Ser Leu Arg Pro
 690 695 700
 Tyr Ser Pro Leu Pro Ser Ala Thr Glu Asn Lys Tyr Leu Ala Leu Asp
 705 710 715 720
 Thr Leu Lys Ala Leu His Leu Ala Ile His Arg Glu Glu Pro Gly Ala
 725 730 735
 Gly Ser Glu Leu His Gly Ala Phe Arg Asn Arg Leu Lys Gly Leu Asn
 740 745 750
 Asp Ala Gln Leu Asp Ala Leu Gln Cys Trp Tyr Pro Asp Asp Gly Ile
 755 760 765
 His Ile Arg Tyr Gln Thr Pro Gly Gly Gly Met Glu Asp Ile Ser Ser
 770 775 780
 Ala Ser Pro Gly Gln Lys Gly Ala Ser Met Leu Gln Phe Leu Leu Ser
 785 790 795 800
 Tyr Gly Thr Asp Pro Leu Leu Leu Asp Gln Pro Glu Asp Asp Leu Asp
 805 810 815
 Cys Leu Met Leu Ser Met Ser Val Ile Pro Ala Ile Met Ala Asn Lys

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      820              825              830
Lys Arg Arg Gln Leu Ile Ile Val Ser His Ser Ala Pro Ile Val Val
      835              840              845
Asn Gly Asp Ala Glu Tyr Val Ile Ser Met Gln His Asp Arg Ser Gly
      850              855              860
Leu His Pro Gly Leu Cys Gly Ala Leu Gln Gly Thr Pro Val Lys Glu
      865              870              875
Leu Ile Cys Arg Gln Met Glu Gly Gly Glu Lys Ala Phe Arg Ser Arg
      885              890              895
Tyr Glu Arg Ile Leu Ser
      900

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<210> 8040

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 8040

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Arg Ala Phe Pro Gly Leu Ser Ser Gly Trp Pro Pro Asp Val Pro Arg
1      5      10      15
Ser Lys Pro Leu Gln Ile Ser Leu His Asp Trp Leu Val Glu Lys Arg
      20      25      30
Ala Thr Leu Ser Lys Lys Ser Arg Leu Gly Glu Ala Phe Ala Tyr Ala
      35      40      45
Leu Asn Gln Trp Asp Ala Leu Cys Tyr Tyr Cys Asp Asp Gly Leu Ala
      50      55      60
Glu Pro Asp Asn Asn Ala Ala Glu Arg Ala Leu Arg Ala Val Cys Leu
      65      70      75      80
Gly Lys Lys Asn Tyr Ile Phe Phe Gly Ser Asp His Gly Gly Glu Arg
      85      90      95
Gly Ala Leu Leu Tyr Gly Leu Ile Gly Thr Cys Arg Leu Asn Gly Ile
      100      105      110
Asp Pro Glu Gly Tyr Leu Arg His Ile Leu Ser Val Leu Pro Glu Trp
      115      120      125
Pro Ile Asn Lys Val Ala Glu Leu Leu Pro Trp Asn Val Asp Leu Thr
      130      135      140
Asn Lys
145

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<210> 8041

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 8041

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Ser Ala Pro Leu Asn Thr Gly Glu Leu Met Ile Thr Phe Glu Ile Arg
1      5      10      15
Met Glu Ile Lys Val Leu His Lys Arg Gly Met Ser Ile Arg Ala Ile
      20      25      30
Ala Arg Glu Leu Gly Ile Ser Arg Asn Thr Val Arg Ser His Leu Lys
      35      40      45
Ala Lys Ser Glu Lys Pro Gln Tyr Ser Pro Arg Pro Ala Pro Ser Ser
      50      55      60
Leu Leu Asp Glu Tyr Arg Asp Tyr Ile Ser Lys Arg Ile Ser Asp Ala
      65      70      75      80
His Pro Tyr Lys Ile Pro Ala Thr Val Ile Ala Arg Glu Ile Met Glu
      85      90      95
Leu Gly Tyr Arg Gly Gly Leu Thr Ile Leu Arg Glu Phe Ile Arg Lys
      100      105      110
Gln Thr Leu Pro Ala Gln Ala Glu Pro Val Val Arg Phe Glu Thr Glu
      115      120      125

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Pro Gly Arg Gln Met Gln Val Asp Trp Gly Thr Met Arg Asn Gly Lys
 130 135 140
 Ser Pro Leu His Val Phe Val Ala Val Leu Gly Tyr Ser Arg Met Leu
 145 150 155 160
 Tyr Ile Glu Phe Thr Asp Asn Met Arg Tyr Asp Thr Leu Glu Ala Cys
 165 170 175
 His Arg Asn Ala Phe Ser Phe Phe Gly Gly Val Pro Gln Glu Val Leu
 180 185 190
 Tyr Asp Asn Met Lys Thr Val Val Leu Gln Arg Asp Ala Tyr Gln Thr
 195 200 205
 Gly Gln His Arg Phe His Pro Ser Leu Trp Gln Phe Gly Lys Glu Met
 210 215 220
 Gly Phe Ser Pro Arg Leu Cys Arg Pro Phe Arg Ala Gln Thr Lys Gly
 225 230 235 240
 Lys Val Glu Arg Met Val Gln Tyr Ala Arg Asn Ser Phe Tyr Ile Pro
 245 250 255
 Leu Met Thr Arg Leu Arg Pro Met Gly Ile Thr Val Asp Val Glu Thr
 260 265 270
 Ala Asn Arg Tyr Gly Leu Arg Trp Leu Tyr Asp Val Ala Asn Gln Arg
 275 280 285
 Lys His Glu Thr Ile Gln Thr Arg Pro Cys Asp Arg Trp Val Glu Glu
 290 295 300
 Gln Gln Ser Met Leu Ala Leu Pro Pro Glu Lys Lys Gln Tyr Asp Val
 305 310 315 320
 Gln Val Asp Glu Ser Leu Met Thr Phe Asp Arg Gln Pro Leu His His
 325 330 335
 Pro Leu Ser Ile Tyr Asp Thr Phe Cys Arg Gly Ala Ala
 340 345 350

<210> 8042

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 8042

Arg Ser Glu Ile Asn Ser Ser Trp Arg Thr Leu Pro Asp Val Phe Leu
 1 5 10 15
 Lys Thr Ile Arg Leu Pro Arg Asp Leu Asp Phe Glu Gly Val Ser Glu
 20 25 30
 Leu Lys Ile Val Arg Glu Gly Asp Cys Ile Ile Leu Arg Pro Val Arg
 35 40 45
 Pro Thr Trp Cys Ser Phe Ala Gln Leu Glu Lys Ala Glu Pro Asp Phe
 50 55 60
 Met Val Glu Arg Gly Asp Val Val Ser Asp Glu Gly Arg Phe Asp Leu
 65 70 75 80

<210> 8043

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 8043

Thr Pro Lys Leu Leu Ile Val Ile Leu Thr Phe Leu Lys Glu Lys Asn
 1 5 10 15
 Met Thr Glu Gln Asn Asn Phe Gly Gln Tyr Ile Gly Ser His Leu Asp
 20 25 30
 Asp Asp Val Thr Leu Ser Leu Pro Asp Leu Arg Gln Leu Pro Gly Arg
 35 40 45
 Tyr Cys Thr Leu Gln Leu Leu Ser Thr Arg His Gly Asn Asp Leu Phe

50		55		60
Gln Gly Trp His Ser Ile	Glu Asp Ser Arg Asp Trp Thr Tyr Leu Pro			
65	70	75		80
Asp Glu Arg Pro Pro Thr Lys Gln Ala Thr His Ser Tyr Ile Gln Gln				
	85	90		95
Leu Ile Gln Gln Lys Gly Val Tyr His Tyr Ala Ile Ile Glu Asn Asn				
	100	105		110
Ser Glu Asn Ala Val Gly Thr Leu Ser Leu Tyr Asn Leu Asp Asn Lys				
	115	120		125
Asn Asp Val Ala Glu Ile Gly Gly Val His Leu Thr Pro Val Ile Lys				
	130	135		140
Arg Thr Ser Val Ser Thr Glu Ala Ile Phe Leu Ile Leu Ser Tyr Val				
	145	150		155
Phe Asp Val Leu Lys Tyr Arg Arg Cys Glu Trp Gln Thr Asp Arg Leu				
	165	170		175
Asn Ser Gln Gly Met Arg Ser Ala Glu Arg Leu Gly Phe Gln Lys Glu				
	180	185		190
Gly Val Leu Arg Asn Lys Gln Ile Leu Lys Ser Arg Ser Val Asp Val				
	195	200		205
Val Met Tyr Ser Ile Ile Gln Asp Glu Trp Glu Arg Ile Ser Ser Ala				
	210	215		220
Ile Thr Ile Trp Leu Arg Thr Val Asn Phe Asp Asp Arg Gly His Gln				
	225	230		235
Ile His Pro Leu Arg His Tyr Leu Ala Thr Thr Glu Pro				240
	245	250		

<210> 8044

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 8044

Met Lys Ile Met Asn Ala Glu Ile Glu Arg Gln Ile Trp His His Asn	
1	5
Leu Ser Tyr Leu Leu Leu Ala Gln Arg Val Leu Asn His Tyr Glu Asp	
	20
Thr Ala Leu Phe Arg Leu Gly Ile Asp Lys Cys Thr Gly Asp Lys Leu	
	35
Leu Gln Leu Ser Leu Pro Glu Leu Val Arg Leu Ala Glu Arg Pro Glu	
	50
Leu Ile Thr Val Leu Arg Leu Arg Asp His His Gln Ile Asp Val Leu	
	65
Leu Ser Gln Ser Thr Gly Met Gly	
	85

<210> 8045

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 8045

His Met Lys Ser Arg Ala Ala Val Ala Phe Ala Pro Gly Lys Pro Leu	
1	5
Glu Ile Val Glu Ile Asp Val Glu Pro Pro Arg Lys Gly Glu Val Leu	
	20
Val Lys Ile Thr His Thr Gly Val Cys His Thr Asp Ala Phe Thr Leu	
	35
Ser Gly Asp Asp Pro Glu Gly Val Phe Pro Ala Val Leu Gly His Glu	
	50
Gly Ala Gly Val Val Val Glu Val Gly Glu Gly Val Thr Ser Val Lys	
	65
	70
	75
	80

Pro Gly Asp His Val Ile Pro Leu Tyr Thr Ala Glu Cys Gly Glu Cys
 85 90 95
 Leu Phe Cys Lys Ser Gly Lys Thr Asn Leu Cys Val Ser Val Arg Ala
 100 105 110
 Thr Gln Gly Lys Gly Leu Met Pro Asp Gly Thr Thr Arg Phe Ser Tyr
 115 120 125
 Lys Gly Gln Pro Leu Phe His Tyr Met Gly Cys Ser Thr Phe Ser Glu
 130 135 140
 Tyr Thr Val Val Ala Glu Val Ser Leu Ala Lys Ile Asn Pro Gln Ala
 145 150 155 160
 Asn His Glu His Val Cys Leu Leu Gly Cys Gly Val Thr Thr Gly Ile
 165 170 175
 Gly Ala Val His Asn Thr Ala Lys Val Gln Pro Gly Asp Thr Val Ala
 180 185 190
 Ile Phe Gly Leu Gly Gly Ile Gly Leu Ala Ala Val Gln Gly Ala Arg
 195 200 205
 Gln Ala Lys Ala Gly Arg Ile Phe Ala Ile Asp Thr Asn Pro Glu Lys
 210 215 220
 Phe Asp Leu Ala Arg Ser Phe Gly Ala Thr Asp Cys Ile Asn Pro Lys
 225 230 235 240
 Asp Tyr Asp Lys Pro Ile Gln Asp Val Leu Ile Glu Leu Thr Gly Trp
 245 250 255
 Gly Val Asp His Thr Phe Glu Cys Ile Gly Asn Val Asn Val Met Arg
 260 265 270
 Ser Ala Leu Glu Ala Ala His Arg Gly Trp Gly Gln Ser Val Val Ile
 275 280 285
 Gly Val Ala Gly Ala Gly Lys Glu Ile Ser Thr Arg Pro Phe Gln Leu
 290 295 300
 Val Thr Gly Arg Val Trp Lys Gly Ser Ala Phe Gly Gly Val Lys Gly
 305 310 315 320
 Arg Thr Gln Leu Pro Gly Met Val Glu Asp Ala Met Lys Gly Glu Ile
 325 330 335
 Tyr Leu Ala Pro Phe Val Thr His Thr Met Gly Leu Glu Glu Ile Asn
 340 345 350
 Asp Ala Phe Asn Leu Met His Glu Cys Lys Ser Ile Arg Thr Val Ile
 355 360 365
 His Tyr
 370

<210> 8046

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 8046

Leu Ala Val Arg Lys Arg Glu Ser Leu Met Lys Glu Ser Ala Leu Ser
 1 5 10 15
 Ala Ile Arg Ser Asp Met Gln Ser Pro Glu Thr Val Tyr Gly Met Pro
 20 25 30
 Ala His Lys Asp Arg Thr Ala Ala Val Asn Glu Val His Ala Arg Pro
 35 40 45
 His Leu Leu Ile Thr Ser Pro Gln Thr Leu Leu Gln Phe Ala Phe Met
 50 55 60
 Thr Lys Gly Asp Gln Ser Gly Asp Gln Arg Phe Met Val Glu Leu Ser
 65 70 75 80
 Asp Arg Leu Gly Leu Thr Pro Ser Glu Asn Ser Ala Pro Leu His Gly
 85 90 95
 Ile Thr Trp Arg Glu Gly Ala Leu Tyr Cys Glu Lys His Gly Glu Phe
 100 105 110
 Ser Thr Tyr Leu Trp Ser Thr Thr Cys Asp Pro Arg Asp Gly Gln Leu
 115 120 125

Arg Gly Glu Asn Pro Phe Arg His Gly Phe Thr Pro Pro Gly Ser Val
 130 135 140
 Ile Cys Gly Thr Arg Leu Asp Ile Leu Pro Trp Thr Ala Glu Ser Glu
 145 150 155 160
 Ala Ala Val Thr Asn Leu Asp Pro Val Ser Arg Cys Tyr Ser Val Thr
 165 170 175
 Glu Asn Gly Arg Ala Ala Ile Ile Ser Asp Phe Arg Gln Asp Lys Asp
 180 185 190
 Gly Leu Thr Arg Ile Leu Ile Leu Glu Arg Asp Leu Thr Glu Ala Gln
 195 200 205
 Leu Gly Ala Leu Val Gln Arg Leu Leu Glu Ile Glu Asn Tyr Arg Thr
 210 215 220
 Leu Ala Leu Leu Ser Leu Pro Leu Thr Arg Thr Met Ala Ser Glu Leu
 225 230 235 240
 Arg Arg Val Glu Asn Arg Leu Ala Glu Ile Thr Glu Glu Met Arg Thr
 245 250 255
 Gly Glu His Arg Lys Asn Glu Gln Leu Leu Ser Ala Leu Thr Asn Leu
 260 265 270
 Ala Ala Glu Leu Glu Ala Gly Ala Ala Ala Asn Leu Tyr Arg Phe Gly
 275 280 285
 Ala Ser Gln Ala Tyr Tyr Glu Ile Val Glu Glu Arg Leu Asn Thr Leu
 290 295 300
 Ser Glu Thr Pro Val Pro Gly Tyr Tyr Thr Trp Ser Asp Phe Leu Gln
 305 310 315 320
 Arg Arg Ile Ala Pro Ala Met Arg Thr Cys Arg Ser Val Lys Glu Arg
 325 330 335
 Gln Ala Lys Leu Ser Asp Lys Leu Met Arg Ala Ile Ser Leu Leu Arg
 340 345 350
 Ser Trp Ile Asp Val Glu Leu Glu His Gln Asn Arg Asp Leu Leu Ala
 355 360 365
 Ser Met Asn Asn Arg Ala Arg Gln Gln Leu His Leu Gln Gln Thr Val
 370 375 380
 Glu Gly Leu Ser Val Ala Ala Ile Ser Tyr Tyr Val Val Ser Leu Ile
 385 390 395 400
 Ser Tyr Leu Val Lys Gly Val Pro Gly Ile His Asp Val Met Pro Pro
 405 410 415
 Glu Leu Ala Val Ala Ile Leu Val Pro Phe Ile Val Leu Ala Ile Trp
 420 425 430
 Trp Val Val Arg Arg Ile Arg Asn Ser His Thr Asp Pro Glu His Asn
 435 440 445
 Glu Asn Arg Ser Asp
 450

<210> 8047

<211> 124

<212> PRT

<213> *Enterobacter cloacae*

<400> 8047

Leu Arg Ser Glu Thr Arg Ala Ala Ile Arg Val Tyr Pro His Ser His
 1 5 10 15
 Arg Ser Ser His Leu Leu Arg Cys Pro Gly Gly Glu Asn Ala Leu Ser
 20 25 30
 Ala Tyr Leu Gly Asp Asp Arg Glu Tyr Trp Lys Gln Tyr Asp Thr Val
 35 40 45
 Glu Leu Ile Arg Lys Ala Gln Glu Arg Leu Pro Leu Leu Val Asp Gln
 50 55 60
 Gly Leu Asn Asp Glu Phe Leu Lys Thr Gln Leu Gln Pro Glu Arg Leu
 65 70 75 80
 Lys Ser Val Cys Glu Asp Thr Gly His Pro Leu Thr Leu Asn Leu Arg
 85 90 95

Pro Gly His Asp His Ser Tyr Tyr Phe Ile Ser Ser Tyr Ile Gly Asp
 100 105 110
 His Ile Ala His His Ala Ala Ala Leu Thr Arg
 115 120

<210> 8048

<211> 885

<212> PRT

<213> Enterobacter cloacae

<400> 8048

Thr Met Ser Lys Lys Leu Phe Gly Ala Pro Pro Thr Leu Thr Asp Ala
 1 5 10 15
 Ser Asn Ser Val Val Val Arg Gly Ala Arg Glu His Asn Leu Lys Glu
 20 25 30
 Val Asp Val Ser Val Pro Arg Asp Ala Leu Val Val Phe Ser Gly Val
 35 40 45
 Ser Gly Ser Gly Lys Ser Ser Leu Ala Phe Gly Thr Ile Tyr Ala Glu
 50 55 60
 Ala Gln Arg Arg Tyr Phe Glu Ser Val Ala Pro Tyr Ala Arg Arg Leu
 65 70 75 80
 Ile Asp Gln Ala Gly Val Pro Asp Val Asp Ala Ile Asp Gly Leu Pro
 85 90 95
 Pro Ala Val Ala Leu Gln Gln Gln Arg Gly Thr Ser Asn Ala Arg Ser
 100 105 110
 Ser Val Gly Ser Val Thr Thr Leu Ser Ser Leu Val Arg Met Met Tyr
 115 120 125
 Ser Arg Ala Gly Ala Tyr Pro Ala Glu Gln Pro Met Leu Tyr Ala Glu
 130 135 140
 Asp Phe Ser Pro Asn Thr Pro Gln Gly Ala Cys Pro Ser Cys His Gly
 145 150 155 160
 Leu Gly His Ile Tyr Asp Val Thr Glu Ala Leu Met Val Pro Asp Pro
 165 170 175
 Ser Leu Ser Ile Arg Asp Arg Ala Ile Ala Ser Trp Pro Pro Ala Trp
 180 185 190
 His Gly Gln Asn Leu Arg Asp Ile Leu Val Thr Leu Gly Tyr Asp Val
 195 200 205
 Asp Ile Pro Trp Lys Glu Leu Ser Glu Glu Glu Arg His Trp Ile Leu
 210 215 220
 Phe Thr Glu Asp Thr Pro Thr Val Pro Val Tyr Pro Gly Leu Ser Pro
 225 230 235 240
 Glu Asp Thr Arg Val Ala Val Arg Glu Lys Met Thr Pro Gly Tyr Met
 245 250 255
 Gly Thr Phe Thr Gly Ala Arg Arg Tyr Val Leu His Thr Phe Ala His
 260 265 270
 Thr Gln Ser Ala Leu Met Arg Lys Arg Val Ser Ser Phe Met Glu Gly
 275 280 285
 Lys Leu Cys Pro Val Cys His Gly Lys Arg Leu Lys Pro Glu Ser Leu
 290 295 300
 Ser Val Thr Phe Ala Gly Val Asp Ile Gly Glu Phe Met Gln Met Pro
 305 310 315 320
 Leu Asp Gln Leu Ala Glu Leu Leu Leu Pro Ile Ser Arg Gly Asp Phe
 325 330 335
 Ser Thr His His Ala Gly Ala Asp Thr Asp Arg Asp Ile Thr Arg Arg
 340 345 350
 Asp Arg Thr Glu Arg Ala Gly Ser Gly Arg Ala Val His Ser Val Thr
 355 360 365
 Pro Asp Val Arg Arg Thr Ser Ala Leu Ser Thr Glu Lys Arg Leu Ala
 370 375 380
 Ala Gln Arg Leu Thr Arg Gly Val Met Asp Arg Leu Tyr Gln Leu Gln
 385 390 395 400

Lys Leu Gly Leu Gly Tyr Leu Thr Leu Asp Arg Thr Thr Pro Thr Leu
 405 410 415
 Ser Ala Gly Glu Leu Gln Arg Leu Arg Leu Ala Thr Gln Leu Ser Ser
 420 425 430
 Met Leu Phe Gly Val Val Tyr Val Leu Asp Glu Pro Ser Ala Gly Leu
 435 440 445
 His Pro Ala Asp Ser His Ala Leu Tyr Asp Ala Leu Glu Asn Leu Arg
 450 455 460
 Asp Ala Gly Asn Ser Val Phe Val Val Glu His Asp Leu Asp Leu Met
 465 470 475 480
 Arg Arg Ala Gln Trp Leu Val Asp Val Gly Pro Ala Ala Gly Glu Gln
 485 490 495
 Gly Gly His Ile Leu Tyr Ser Gly Val Pro Glu Gly Leu Lys Ala Ile
 500 505 510
 Ala Glu Ser Arg Thr Ala Arg Tyr Leu Phe Asp Glu Ile Arg Pro Pro
 515 520 525
 Gln Ser Tyr Ala Arg Gln Pro Ala Gly Trp Leu Lys Leu Gln Asp Ile
 530 535 540
 His Arg His Asn Leu Lys Gly Leu Asp Ala Cys Ile Pro Leu Gly Val
 545 550 555 560
 Leu Thr Ala Val Thr Gly Ile Ser Gly Ser Gly Lys Ser Ser Leu Ile
 565 570 575
 Ala Gln Ala Leu Pro Glu Leu Val Leu Ser Ser Leu Gly His Glu Pro
 580 585 590
 Glu Asp Val Leu Ser Glu Gly Ser Asp Ala Glu Gly Pro Thr Val Thr
 595 600 605
 Glu Lys Thr Tyr Gly Thr Leu Thr Gly Asp Thr Gly Leu Ile Lys Arg
 610 615 620
 Leu Val Gln Val Asp Gln Lys Pro Ile Gly Arg Thr Pro Arg Ser Asn
 625 630 635 640
 Leu Ala Thr Tyr Thr Gly Leu Phe Asp His Ile Arg Lys Leu Phe Ala
 645 650 655
 Gly Thr Pro Ala Lys Asn Tyr His Tyr Asp Ala Gly Gln Phe Ser
 660 665 670
 Phe Asn Val Ala Lys Gly Arg Cys Glu Thr Cys Glu Gly Glu Gly Phe
 675 680 685
 Val Ser Val Glu Leu Leu Phe Met Pro Ser Val Tyr Ala Pro Cys Pro
 690 695 700
 Thr Cys His Gly Ala Arg Tyr Asn Pro Asp Thr Leu Arg Val Arg Trp
 705 710 715 720
 Lys Glu Arg Asn Ile Ala Glu Val Leu Gln Met Thr Val Asp Glu Ala
 725 730 735
 Cys Ser Phe Phe Ala Asp Val Glu Pro Val Ala Arg Pro Leu Arg Leu
 740 745 750
 Leu Gly Glu Ile Gly Leu Gly Tyr Leu Arg Leu Gly Gln Pro Ala Thr
 755 760 765
 Glu Leu Ser Gly Gly Glu Ala Gln Arg Ile Lys Leu Ala Thr Glu Leu
 770 775 780
 Gln Arg Ser Gln Arg Gly His Thr Leu Tyr Val Leu Asp Glu Pro Thr
 785 790 795 800
 Thr Gly Leu His Ala Ser Asp Ala Asp Arg Leu Leu Val Gln Leu Gln
 805 810 815
 Arg Leu Val Glu Thr Gly Asn Thr Val Val Ile Glu His Asp Met
 820 825 830
 Arg Ala Val Val Gln Ala Asp Trp Val Met Asp Ile Gly Pro Gly Ala
 835 840 845
 Gly His Glu Gly Gly Asn Leu Val Ala Glu Gly Thr Pro Ala Gln Val
 850 855 860
 Ser Gln Val Cys Glu Ser Arg Thr Ala Pro Phe Ile Ala Arg Glu Leu
 865 870 875 880
 Ser Arg Asn Trp

885

<210> 8049

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 8049

Glu Met Pro Ser Thr Pro Glu Glu Lys Lys Lys Val Leu Thr Arg Val
 1 5 10 15
 Arg Arg Ile Arg Gly Gln Ile Asp Ala Leu Glu Arg Ala Leu Glu Asn
 20 25 30
 Gly Ala Glu Cys Arg Ala Ile Leu Gln Gln Ile Ala Ala Val Arg Gly
 35 40 45
 Ala Ser Asn Gly Leu Met Ala Glu Val Leu Glu Ser His Ile Arg Glu
 50 55 60
 Thr Phe Asp Gln Asn Asp Asn Tyr Ser His Glu Val Ser Lys Ser Val
 65 70 75 80
 Asp Asp Thr Ile Glu Leu Val Arg Ala Tyr Leu Lys
 85 90

<210> 8050

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 8050

His Val Leu Gln Arg Ser Arg Met Met Val Glu Leu Gln His Gln Arg
 1 5 10 15
 Leu Met Val Leu Ala Glu Gln Leu Gln Leu Asp Ser Leu Ile Gly Ala
 20 25 30
 Ala Pro Ala Leu Ser Gln Gln Ala Val Asp Gln Glu Trp Ser Tyr Met
 35 40 45
 Asp Phe Leu Glu His Leu Leu His Glu Glu Lys Leu Ala Arg His Gln
 50 55 60
 Arg Lys Gln Ala Met Tyr Thr Arg Met Ala Ala Phe Pro Ala Val Lys
 65 70 75 80
 Thr Phe Glu Glu Tyr Asp Phe Thr Phe Ala Thr Gly Ala Pro Gln Lys
 85 90 95
 Gln Ile Gln Ser Leu Arg Ser Leu Ser Phe Ile Glu Arg Asn Glu Asn
 100 105 110
 Ile Val Leu Leu Gly Pro Ser Gly Val Gly Lys Thr His Leu Ala Ile
 115 120 125
 Ala Met Gly Tyr Glu Ala Val Arg Ala Gly Ile Lys Val Arg Phe Thr
 130 135 140
 Thr Ala Ala Asp Leu Leu Leu Gln Leu Ser Thr Ser Gln Arg Gln Gly
 145 150 155 160
 Arg Tyr Lys Thr Thr Leu Asn Arg Gly Val Met Ala Pro Lys Leu Leu
 165 170 175
 Ile Ile Asp Glu Ile Gly Tyr Leu Pro Phe Ser Gln Glu Glu Ala Lys
 180 185 190
 Leu Phe Phe Gln Val Ile Ala Lys Arg Tyr Glu Lys Ser Ala Met Ile
 195 200 205
 Leu Thr Ser Asn Leu Pro Phe Gly Gln Trp Asp Gln Thr Phe Ala Gly
 210 215 220
 Asp Ala Ala Leu Thr Ser Ala Met Leu Asp Arg Ile Leu His His Ser
 225 230 235 240
 His Val Val Gln Ile Lys Gly Glu Ser Tyr Arg Leu Lys Gln Lys Arg
 245 250 255
 Lys Ala Gly Val Ile Ala Glu Ala Asn Pro Glu
 260 265

<210> 8051

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 8051

```

Pro Val Asn Lys Ile Tyr Met Leu Asp Thr Asn Ile Cys Ser Phe Ile
1      5      10      15
Met Arg Glu Gln Ser Glu Val Val Leu Lys Arg Leu Glu Pro Ala Val
      20      25      30
Leu Arg Asp Gln Arg Ile Val Val Ser Val Ile Thr Tyr Ser Glu Met
      35      40      45
Arg Phe Gly Ala Thr Gly Pro Lys Ala Ser Pro Pro Arg Glu Gln Leu
      50      55      60
Val Asp Ala Phe Cys Val Pro Phe
65      70

```

<210> 8052

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 8052

```

Gln Gly Gln Ser Met Pro His Ser Pro Glu Glu Lys Lys Gln Ala Leu
1      5      10      15
Val Arg Val Arg Arg Ile Lys Gly Gln Ile Ala Ala Leu Glu Gln Ala
      20      25      30
Ile Glu Asn Glu Ala Glu Cys Ser Ser Leu Leu Gln Gln Leu Ala Ser
      35      40      45
Val Arg Gly Ala Val Lys Gly Leu Met Thr Val Val Leu Glu Ser Tyr
      50      55      60
Leu Arg Glu Glu Phe Pro Asp Thr Asn Lys Arg Arg Gly Ser Gln Thr
65      70      75      80
Lys Ser Ile Asn Asp Ala Ile Ser Ile Val Arg Ser Tyr Leu Arg
      85      90      95

```

<210> 8053

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 8053

```

Leu Ser Cys Tyr Val Val Ala Glu Leu Ser Cys Arg Tyr Thr Glu Lys
1      5      10      15
Ile Met Glu Arg Leu Glu His His Ala Ser Phe Asp Gly Trp Gln Glu
      20      25      30
Val Tyr Gln His Glu Ser Gly Thr Leu Gly Cys Thr Met Lys Phe Gly
      35      40      45
Val Tyr Thr Pro Pro Gln Ala Leu Asn Gly Asn Val Pro Val Leu Tyr
      50      55      60
Trp Leu Ser Gly Leu Thr Cys Thr Glu Gln Asn Phe Ile Thr Lys Ser
65      70      75      80
Ser Val Gln Arg Tyr Ala Ala Glu His Gly Ile Met Ile Val Ala Pro
      85      90      95
Asp Thr Ser Pro Arg Gly Thr Asp Ile Pro Asp Asp Pro Asp Tyr Ala
      100      105      110
Leu Gly Gln Gly Ala Gly Phe Tyr Val Asn Ala Thr Gln Glu Pro Trp
      115      120      125
Ala Thr His Tyr Lys Met Tyr Asp Tyr Val Val Asn Glu Leu Pro Ser
      130      135      140

```

Leu Ile Glu Glu Trp Phe Pro Ala Ser Asp Lys Arg Ser Ile Ser Gly
 145 150 155 160
 His Ser Met Gly Gly His Gly Ala Leu Met Ile Ala Leu Arg Asn Pro
 165 170 175
 Gly Arg Tyr Gln Ser Val Ser Ala Phe Ser Pro Ile Val Ala Pro Ser
 180 185 190
 Gln Val Pro Trp Gly Arg Lys Cys Ile Val Cys Leu Ser Gly
 195 200 205

<210> 8054

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 8054

Thr Pro Asp Ala Asp Asp Ala Ala Gly Thr Ala Cys Ala Gly Cys Asp
 1 5 10 15
 Gly Thr Thr Cys Thr Arg Thr Gly Ser Gly Asp Gly Val Asn Ala Ala
 20 25 30
 Ala Ala Gly Cys Ala Ala Thr Ala Ser Leu Gly Trp Arg Ala Val
 35 40 45
 Val Ala Ser Tyr Arg Ser Gln Gly Arg Trp Val Ile Trp Leu Ser Phe
 50 55 60
 Leu Val Ala Leu Leu Leu Gln Ile Met Pro Trp Pro Asp Asp Ile Leu
 65 70 75 80
 Val Phe Arg Pro Asn Trp Val Leu Leu Ile Leu Leu Tyr Trp Ile Leu
 85 90 95
 Ala Leu Pro His Arg Val Asn Val Gly Thr Gly Phe Val Met Gly Ala
 100 105 110
 Ile Leu Asp Leu Ile Ser Gly Ser Thr Leu Gly Val Arg Ala Leu Ser
 115 120 125
 Met Ser Ile Ile Ala Tyr Leu Val Ala Leu Lys Phe Gln Leu Phe Arg
 130 135 140
 Asn Leu Ala Leu Trp Gln Gln Ala Leu Val Val Met Leu Leu Ser Leu
 145 150 155 160
 Ala Ala Asp Ile Val Val Phe Trp Ala Glu Phe Leu Val Ile Asn Val
 165 170 175
 Ser Phe Arg Pro Glu Val Phe Trp Ser Ser Val Val Asn Gly Val Leu
 180 185 190
 Trp Pro Trp Leu Phe Leu Leu Met Arg Lys Ile Arg Gln Gln Phe Ala
 195 200 205
 Val Gln
 210

<210> 8055

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 8055

Lys Val Ser Met Thr Ser Leu Tyr Leu Ala Ser Gly Ser Pro Arg Arg
 1 5 10 15
 Gln Glu Leu Leu Ala Gln Leu Gly Val Ser Phe Glu Arg Ile Val Thr
 20 25 30
 Gly Ile Glu Glu Lys Arg Ala Glu Gly Glu Ser Ala Gln Gln Tyr Val
 35 40 45
 Ser Arg Leu Ala Arg Glu Lys Ala Gln Ala Gly Val Ala Cys Val Pro
 50 55 60
 Arg Asp Leu Pro Val Leu Gly Ala Asp Thr Ile Val Ile Leu Asn Gly
 65 70 75 80
 Glu Val Leu Glu Lys Pro Arg Asp Ala Asp His Ala Ala Arg Met Leu

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<210> 8056
<211> 482
<212> PRT
<213> Enterobacter cloacae
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400> 8056																	
Met	Ser	Leu	Asn	5	Leu	Val	Ser	Glu	His	10	Leu	Ala	Ala	Asn	Gly	Leu	15
1	Ser	His	Gln	Asp	20	Leu	Phe	Ser	Ile	25	Leu	Gly	Gln	Leu	Thr	Glu	Arg
Leu	Asp	Tyr	Gly	Asp	Leu	Tyr	Phe	40	Gln	Ser	Ser	Tyr	His	Glu	Ser	Trp	
Val	Leu	Glu	Asp	Ser	Ile	Ile	Lys	Asp	Gly	Ser	Tyr	Asn	Ile	Asp	Gln		
65	Gly	Val	Gly	Val	Arg	Ala	Val	Ser	Gly	Glu	Lys	Thr	Gly	Phe	Ala	Tyr	80
Ala	Asp	Gln	Ile	Ser	Leu	Ala	Ala	Leu	Glu	Gln	Ser	Ala	Gln	Ala	Ala		
Arg	Thr	Ile	Val	Arg	Asp	Thr	Gly	Asp	Gly	Arg	Val	Lys	Thr	Leu	Gly		
Glu	Val	Gln	His	Ala	Ala	Leu	Tyr	Thr	Ser	Ile	Asp	Pro	Leu	Gln	Ser		
Met	Ser	Arg	Glu	Glu	Lys	Leu	Asp	Ile	Leu	Arg	Arg	Val	Asp	Lys	Val		
130	Ala	Arg	Ala	Ala	Asp	Lys	Arg	Val	Gln	Glu	Val	Ser	Ala	Ser	Leu	Thr	
145	Gly	Val	Tyr	Glu	Leu	Ile	Leu	Val	Ala	Ala	Thr	Asp	Gly	Thr	Leu	Ala	
Ala	Asp	Val	Arg	Pro	Leu	Val	Arg	Leu	Ser	Ile	Ser	Val	Gln	Val	Glu		
Asp	Asp	Gly	Lys	Arg	Glu	Arg	Gly	Ser	Ser	Gly	Gly	Gly	Gly	Arg	Phe		
Gly	Tyr	Asp	Trp	Phe	Leu	Gly	Asp	Val	Asp	Gly	Glu	Ala	Arg	Ala	Asp		
210	Ala	Trp	Ala	Lys	Glu	Ala	Val	Arg	Met	Ala	Leu	Val	Asn	Leu	Ser	Ala	
225	Val	Ala	Ala	Pro	Ala	Gly	Thr	Leu	Pro	Val	Val	Leu	Gly	Ala	Gly	Trp	
Pro	Gly	Val	Leu	Leu	His	Glu	Ala	Val	Gly	His	Gly	Leu	Glu	Gly	Asp		
Phe	Asn	Arg	Arg	Gly	Thr	Ser	Val	Phe	Ser	Gly	Gln	Met	Gly	Gln	Leu		
Val	Ser	Ser	Glu	Leu	Cys	Thr	Val	Val	Asp	Asp	Gly	Thr	Met	Leu	Asp		
290	Arg	Arg	Gly	Ser	Ile	Ser	Ile	Asp	Asp	Glu	Gly	Thr	Pro	Gly	Gln	Tyr	

```

305          310          315          320
Asn Val Leu Ile Glu Asn Gly Val Leu Lys Gly Tyr Met Gln Asp Lys
          325          330          335
Leu Asn Ala Arg Leu Met Gly Val Ala Pro Thr Gly Asn Gly Arg Arg
          340          345          350
Glu Ser Tyr Ala His Leu Pro Met Pro Arg Met Thr Asn Thr Tyr Met
          355          360          365
Leu Pro Gly Lys Ser Thr Pro Gln Glu Ile Ile Glu Ser Val Asp Tyr
          370          375          380
Gly Ile Phe Ala Pro Asn Phe Gly Gly Gly Gln Val Asp Ile Thr Ser
385          390          395          400
Gly Lys Phe Val Phe Ser Thr Ser Glu Ala Tyr Leu Ile Glu Lys Gly
          405          410          415
Lys Val Thr Lys Ala Val Lys Gly Ala Thr Leu Ile Gly Ser Gly Ile
          420          425          430
Glu Ala Met Gln Gln Ile Ser Met Val Gly Asn Asp Leu Lys Leu Asp
          435          440          445
Asn Gly Val Gly Val Cys Gly Lys Glu Gly Gln Ser Leu Pro Val Gly
          450          455          460
Val Gly Gln Pro Thr Leu Lys Val Asp Asn Leu Thr Val Gly Gly Thr
465          470          475          480
Ala

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<210> 8057

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 8057

```

Pro Ala Leu Ser Leu Ile Lys Val Asn Met Ser Leu Phe Pro Val Ile
1          5          10          15
Val Val Phe Gly Leu Ser Phe Pro Pro Ile Phe Phe Glu Leu Leu Leu
          20          25          30
Ser Leu Ala Ile Phe Trp Leu Val Arg Lys Val Leu Val Pro Thr Gly
          35          40          45
Ile Tyr Asp Phe Val Trp His Pro Ala Leu Phe Asn Thr Ala Leu Tyr
          50          55          60
Cys Cys Leu Phe Tyr Leu Ile Ser Arg Met Phe Val
65          70          75

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<210> 8058

<211> 677

<212> PRT

<213> Enterobacter cloacae

<400> 8058

```

Cys Gln Pro Gly Phe Asp Leu Pro Ser Asn Arg Pro Ser Pro Ala Arg
1          5          10          15
Val Trp Leu Ile Ala Met Gly Ile Phe Ser Ile Ala Ser Gln His Ile
          20          25          30
Arg Phe Ala Val Lys Leu Ala Cys Ala Ile Val Leu Ala Leu Phe Val
          35          40          45
Gly Phe His Phe Gln Leu Glu Thr Pro Arg Trp Ala Val Leu Thr Ala
          50          55          60
Ala Ile Val Ala Ala Gly Pro Ala Phe Ala Ala Gly Gly Glu Pro Tyr
65          70          75          80
Ser Gly Ala Ile Arg Tyr Arg Gly Met Leu Arg Ile Ile Gly Thr Phe
          85          90          95
Ile Gly Cys Ile Ala Ala Leu Thr Ile Ile Leu Met Ile Arg Thr
          100          105          110

```

Pro Leu Leu Met Leu Ile Val Cys Cys Ile Trp Ala Gly Phe Cys Thr
 115 120 125
 Trp Val Ser Ser Leu Val Lys Val Glu Asn Ser Tyr Ala Trp Gly Leu
 130 135 140
 Ala Gly Tyr Thr Ala Leu Ile Ile Ile Thr Ile Gln Ser Glu Pro
 145 150 155 160
 Leu Leu Ala Pro Gln Phe Ala Val Glu Arg Cys Ser Glu Ile Val Ile
 165 170 175
 Gly Ile Val Cys Ala Ile Val Ala Asp Leu Leu Phe Ser Pro Arg Ser
 180 185 190
 Ile Lys Gln Glu Val Asp Arg Glu Leu Asp Ala Leu Ile Val Ala Gln
 195 200 205
 Tyr Gln Leu Met Gln Leu Cys Ile Lys His Gly Asp Ser Glu Glu Val
 210 215 220
 Asp Lys Ala Trp Ser Ala Leu Val Arg Arg Thr Gln Ala Leu Glu Gly
 225 230 235 240
 Met Arg Ser Asn Leu Asn Met Glu Ser Ser Arg Trp Glu Arg Ala Asn
 245 250 255
 Arg Arg Leu Lys Ala Ile Asn Thr Val Ser Leu Thr Leu Ile Thr Gln
 260 265 270
 Ala Cys Glu Thr Tyr Leu Ile Gln Asn Thr Arg Pro Glu Val Val Thr
 275 280 285
 Asp Thr Phe Arg Glu Leu Phe Asp Glu Pro Val Glu Thr Val Gln Asp
 290 295 300
 Val His Arg Gln Leu Lys Arg Met Arg Arg Val Ile Ala Trp Thr Gly
 305 310 315 320
 Glu Arg Asp Thr Pro Val Thr Ile Tyr Thr Trp Val Gly Ala Ala Thr
 325 330 335
 Arg Tyr Leu Leu Leu Lys Arg Gly Val Ile Ser Asn Thr Lys Ile Ser
 340 345 350
 Ala Ala Glu Glu Glu Val Leu Gln Gly Glu Val Val Ile Lys Pro Glu
 355 360 365
 Ser Ala Glu Arg His His Ala Met Val Asn Phe Trp Arg Thr Thr Leu
 370 375 380
 Ala Cys Ile Leu Gly Thr Leu Phe Trp Leu Trp Thr Gly Trp Thr Ser
 385 390 395 400
 Gly Ser Gly Ala Met Val Met Ile Ala Val Val Thr Ala Leu Ala Met
 405 410 415
 Arg Leu Pro Asn Pro Arg Met Val Ala Ile Asp Phe Leu Tyr Gly Thr
 420 425 430
 Ile Ala Ala Leu Pro Ile Gly Ala Leu Tyr Phe Leu Val Ile Ile Pro
 435 440 445
 Ser Thr Gln Gln Ser Met Leu Leu Leu Cys Ile Ser Leu Ala Val Met
 450 455 460
 Ala Phe Phe Ile Gly Ile Glu Val Gln Lys Arg Arg Leu Gly Ser Leu
 465 470 475 480
 Gly Ala Leu Ala Ser Thr Ile Asn Ile Ile Val Leu Asp Asn Pro Met
 485 490 495
 Thr Phe His Phe Ser Gln Phe Leu Asp Ser Ala Leu Gly Gln Leu Val
 500 505 510
 Gly Cys Phe Leu Ala Met Met Val Ile Leu Leu Val Arg Asp Asn Ser
 515 520 525
 Gln Ala Arg Thr Gly Arg Val Leu Leu Asn Gln Phe Val Ser Ala Ala
 530 535 540
 Val Ser Ser Leu Thr Thr Asn Thr Ala Arg Arg Lys Glu Asn His Leu
 545 550 555 560
 Pro Ala Leu Tyr Gln Gln Leu Phe Leu Leu Leu Asn Lys Phe Pro Gly
 565 570 575
 Asp Val Ala Arg Phe Arg Leu Ala Leu Thr Met Ile Ile Ala His Gln
 580 585 590
 Arg Leu Arg Asn Ala Pro Val Pro Ile Asn Asp Asp Leu Ser Ala Phe

595 600 605
 His Arg Gln Leu Arg Arg Thr Ala Asp His Val Ile Ser Ala Ser Ser
 610 615 620
 Asp Asp Lys Arg Arg Arg Tyr Phe Lys Gln Leu Leu Glu Glu Leu Asp
 625 630 635 640
 Ile Tyr Gln Glu Lys Leu Arg Ile Trp Glu Ala Pro Pro Gln Val Thr
 645 650 655
 Glu Pro Val Glu Arg Leu Val Phe Met Leu His Arg Tyr Gln Asn Ala
 660 665 670
 Leu Thr Asp Ser
 675

<210> 8059

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 8059

Val Asn His Asn Lys Glu Phe Arg Met Lys Val Ala Val Leu Gly Ala
 1 5 10 15
 Ala Gly Gly Ile Gly Gln Ala Leu Ala Leu Leu Leu Lys Thr Gln Leu
 20 25 30
 Pro Ser Gly Ser Glu Leu Ser Leu Tyr Asp Ile Ala Pro Val Thr Pro
 35 40 45
 Gly Val Ala Val Asp Leu Ser His Ile Pro Thr Ala Val Lys Ile Lys
 50 55 60
 Gly Phe Ser Gly Glu Asp Ala Arg Pro Ala Leu Gln Gly Ala Asp Val
 65 70 75 80
 Val Leu Ile Ser Ala Gly Val Ala Arg Lys Pro Gly Met Asp Arg Ser
 85 90 95
 Asp Leu Phe Asn Val Asn Ala Gly Ile Val Lys Asn Leu Val Gln Gln
 100 105 110
 Ile Ala Glu Thr Cys Pro Lys Ala Cys Ile Gly Ile Ile Thr Asn Pro
 115 120 125
 Val Asn Thr Thr Val Ala Ile Ala Ala Glu Val Leu Lys Lys Ala Gly
 130 135 140
 Val Tyr Asp Lys Asn Lys Leu Phe Gly Val Thr Thr Leu Asp Ile Ile
 145 150 155 160
 Arg Ser Asn Thr Phe Val Ala Glu Leu Lys Gly Lys Gln Pro Thr Glu
 165 170 175
 Val Glu Val Pro Val Ile Gly Gly His Ser Gly Val Thr Ile Leu Pro
 180 185 190
 Leu Leu Ser Gln Ile Pro Gly Val Ser Phe Thr Glu Gln Glu Val Ala
 195 200 205
 Asp Leu Thr Lys Arg Ile Gln Asn Ala Gly Thr Glu Val Val Glu Ala
 210 215 220
 Lys Ala Gly Gly Gly Ser Ala Thr Leu Ser Met Gly Gln Ala Ala Ala
 225 230 235 240
 Arg Phe Gly Leu Ser Leu Val Arg Ala Leu Gln Gly Glu Lys Gly Val
 245 250 255
 Val Glu Cys Ala Tyr Val Glu Gly Asp Gly Glu His Ala Arg Phe Phe
 260 265 270
 Ser Gln Pro Leu Leu Leu Gly Lys Asn Gly Val Glu Glu Arg Lys Ser
 275 280 285
 Ile Gly Thr Leu Ser Ala Phe Glu Gln Asn Ala Met Glu Gly Met Leu
 290 295 300
 Asp Thr Leu Lys Lys Asp Ile Thr Leu Gly Glu Glu Phe Val Asn Lys
 305 310 315 320

<210> 8060
 <211> 340
 <212> PRT
 <213> Enterobacter cloacae

<400> 8060

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Pro Met Lys  Pro  Ile  Phe  Ser  Arg  Gly  Pro  Ser  Leu  Gln  Phe  Arg  Leu
1      5      10      15
Ile  Leu  Ala  Val  Leu  Val  Ala  Leu  Gly  Val  Ile  Ile  Ala  Asp  Ser  Arg
20      25      30
Leu  Gly  Thr  Phe  Ser  Gln  Ile  Arg  Thr  Tyr  Met  Asp  Thr  Ala  Val  Ser
35      40      45
Pro  Phe  Tyr  Phe  Ile  Ser  Asn  Gly  Pro  Arg  Glu  Leu  Leu  Asp  Ser  Val
50      55      60
Ser  Gln  Thr  Leu  Ser  Ser  Arg  Asp  Gln  Leu  Glu  Leu  Glu  Asn  Arg  Ala
65      70      75      80
Leu  Arg  Gln  Glu  Leu  Leu  Lys  Asn  Ser  Glu  Leu  Leu  Met  Leu  Gly
85      90      95
Gln  Tyr  Lys  Gln  Glu  Asn  Ala  Arg  Leu  Arg  Glu  Leu  Leu  Gly  Ser  Pro
100     105     110
Leu  Arg  Gln  Asp  Glu  Gln  Lys  Met  Val  Thr  Gln  Val  Ile  Ser  Thr  Val
115     120     125
Asn  Asp  Pro  Tyr  Ser  Asp  Gln  Val  Val  Ile  Asp  Lys  Gly  Ser  Val  Asn
130     135     140
Gly  Val  Tyr  Glu  Gly  Gln  Pro  Val  Ile  Ser  Asp  Lys  Gly  Val  Val  Gly
145     150     155     160
Gln  Val  Val  Ala  Val  Ala  Lys  Leu  Thr  Ser  Arg  Val  Leu  Leu  Ile  Cys
165     170     175
Asp  Ala  Thr  His  Ala  Leu  Pro  Ile  Gln  Val  Leu  Arg  Asn  Asp  Ile  Arg
180     185     190
Val  Ile  Ala  Ala  Gly  Asn  Gly  Cys  Thr  Asp  Asp  Leu  Gln  Leu  Glu  His
195     200     205
Leu  Pro  Ala  Asn  Thr  Asp  Ile  Arg  Val  Gly  Asp  Val  Leu  Val  Thr  Ser
210     215     220
Gly  Leu  Gly  Gly  Arg  Phe  Pro  Glu  Gly  Tyr  Pro  Val  Ala  Val  Val  Ser
225     230     235
Ser  Val  Lys  Leu  Asp  Thr  Gln  Arg  Ala  Tyr  Thr  Val  Ile  Gln  Ala  Arg
245     250     255
Pro  Thr  Ala  Gly  Leu  Gln  Arg  Leu  Arg  Tyr  Leu  Leu  Leu  Leu  Trp  Gly
260     265     270
Ala  Asp  Arg  Asn  Gly  Ala  Asn  Pro  Met  Thr  Pro  Glu  Asp  Val  His  Arg
275     280     285
Val  Ala  Asn  Glu  Arg  Leu  Met  Gln  Met  Met  Pro  Gln  Val  Leu  Pro  Ala
290     295     300
Pro  Asp  Ala  Met  Gly  Pro  Pro  Ala  Pro  Val  Pro  Ala  Pro  Ala  Thr  Gly
305     310     315     320
Leu  Thr  Gln  Pro  Leu  Pro  Asp  Ala  Pro  Pro  Pro  Pro  Gln  Val  Ser  Gly
325     330     335
Gly  Gly  Gln
340

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<210> 8061
 <211> 502
 <212> PRT
 <213> Enterobacter cloacae

<400> 8061

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Ala  Ile  Leu  Thr  His  Cys  Val  Arg  Glu  Gly  Ile  Ile  Met  Thr  Ala  Glu
1      5      10      15
Leu  Leu  Val  Asn  Val  Thr  Pro  Ser  Glu  Thr  Arg  Val  Ala  Tyr  Ile  Asp
20      25      30

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Gly Gly Ile Leu Gln Glu Ile His Ile Glu Arg Glu Ala Arg Arg Gly
 35 40 45
 Ile Val Gly Asn Ile Tyr Lys Gly Arg Val Ser Arg Val Leu Pro Gly
 50 55 60
 Met Gln Ala Ala Phe Val Asp Ile Gly Leu Asp Lys Ala Ala Phe Leu
 65 70 75 80
 His Ala Ser Asp Ile Met Pro His Thr Glu Cys Val Ala Gly Glu Glu
 85 90 95
 Gln Lys Gln Phe Ala Val Arg Asp Ile Ser Glu Leu Val Arg Gln Gly
 100 105 110
 Gln Asp Leu Met Val Gln Val Val Lys Asp Pro Leu Gly Thr Lys Gly
 115 120 125
 Ala Arg Leu Thr Thr Asp Ile Thr Leu Pro Ser Arg Tyr Leu Val Phe
 130 135 140
 Met Pro Gly Ala Ser His Val Gly Val Ser Gln Arg Ile Glu Ser Glu
 145 150 155 160
 Ser Glu Arg Glu Arg Leu Lys Lys Val Val Ser Ala Tyr Cys Asp Glu
 165 170 175
 Gln Gly Gly Phe Ile Ile Arg Thr Ala Ala Glu Gly Ile Ser Glu Glu
 180 185 190
 Asp Leu Ala Ser Asp Ala Ala Tyr Leu Lys Arg Val Trp Thr Lys Val
 195 200 205
 Met Glu Arg Lys Lys Arg Asn Gln Thr Arg Tyr Arg Leu Tyr Gly Glu
 210 215 220
 Leu Ala Leu Ala Gln Arg Val Leu Arg Asp Phe Ala Asp Ala Gln Leu
 225 230 235 240
 Asp Arg Ile Arg Val Asp Ser Arg Leu Thr Tyr Glu Ala Leu Leu Glu
 245 250 255
 Phe Thr Ala Glu Tyr Ile Pro Glu Met Pro Gly Leu Leu Glu His Tyr
 260 265 270
 Thr Gly Arg Gln Pro Ile Phe Asp Leu Tyr Asp Val Glu Asn Glu Ile
 275 280 285
 Gln Arg Ala Leu Glu Arg Lys Val Glu Leu Lys Ser Gly Gly Tyr Leu
 290 295 300
 Ile Ile Asp Gln Thr Glu Ala Met Thr Thr Val Asp Ile Asn Thr Gly
 305 310 315 320
 Ala Phe Val Gly His Arg Asn Leu Asp Asp Thr Ile Phe Asn Thr Asn
 325 330 335
 Ile Glu Ala Thr Gln Ala Ile Ala Arg Gln Leu Arg Leu Arg Asn Leu
 340 345 350
 Gly Gly Ile Ile Ile Ile Asp Phe Ile Asp Met Asn Asn Glu Asp His
 355 360 365
 Arg Arg Arg Val Leu His Ser Leu Glu Gln Ala Leu Ser Lys Asp Arg
 370 375 380
 Val Lys Thr Ser Ile Asn Gly Phe Ser Gln Leu Gly Leu Val Glu Met
 385 390 395 400
 Thr Arg Lys Arg Thr Arg Glu Ser Val Glu His Val Leu Cys Asn Glu
 405 410 415
 Cys Pro Thr Cys His Gly Arg Gly Thr Val Lys Thr Val Glu Thr Val
 420 425 430
 Cys Tyr Glu Ile Met Arg Glu Ile Val Arg Val His His Ala Tyr Asp
 435 440 445
 Ser Asp Arg Phe Leu Val Tyr Ala Ser Pro Ala Val Ala Glu Ala Leu
 450 455 460
 Lys Gly Glu Glu Ser His Ala Leu Ala Glu Val Glu Ile Phe Val Gly
 465 470 475 480
 Lys Gln Val Lys Val Gln Ile Glu Pro Leu Tyr Asn Gln Glu Gln Phe
 485 490 495
 Asp Val Val Met Met
 500

<210> 8062

<211> 1283

<212> PRT

<213> *Enterobacter cloacae*

<400> 8062

Thr Gln Phe Ala Ala Arg Phe Lys Ala Asp Lys Glu Arg Arg Val Arg
 1 5 10 15
 Arg Leu Pro Gly Ile Leu Leu Leu Thr Gly Ala Thr Leu Val Val Ile
 20 25 30
 Val Ala Leu Leu Val Ser Gly Leu Arg Leu Ala Leu Pro His Leu Asp
 35 40 45
 Ser Trp Arg Pro Gln Ile Leu Ala Lys Ile Glu Ser Ala Thr Gly Leu
 50 55 60
 Pro Val Asp Val Ser His Ile Glu Ala Ser Trp Gln Asn Phe Gly Pro
 65 70 75 80
 Thr Leu Asp Ala Arg Asp Ile His Ala Ser Leu Lys Asp Gly Gly His
 85 90 95
 Leu Lys Ile Lys Arg Val Thr Leu Ala Leu Asp Val Trp Gln Ser Leu
 100 105 110
 Leu His Leu Arg Trp Gln Phe Arg Asp Leu Thr Phe Trp Gln Leu Gln
 115 120 125
 Leu Met Thr Asn Thr Pro Leu Gln Ser Gly Asp Ser Asp Arg Gly Leu
 130 135 140
 Glu Thr Ser Arg Ile Ser Asp Leu Phe Leu Arg Gln Phe Asp His Phe
 145 150 155 160
 Asp Leu Arg Asp Ser Glu Val Ser Phe Ile Thr Leu Ser Gly Gln Arg
 165 170 175
 Ala Glu Leu Ala Ile Pro Gln Leu Thr Trp Leu Asn Gly Lys Asp Arg
 180 185 190
 His Arg Ala Glu Gly Gln Val Asn Leu Ser Ser Leu Asn Gly Gln His
 195 200 205
 Gly Val Met Gln Val Arg Met Asp Leu Arg Asp Asp Asn Gly Leu Leu
 210 215 220
 Asn Asn Gly Arg Val Trp Leu Gln Ala Asp Asp Val Asp Val Lys Pro
 225 230 235 240
 Trp Leu Gly Glu Leu Leu Gln Gln Asn Met Gln Leu Glu Thr Ala Arg
 245 250 255
 Phe Ser Leu Glu Gly Trp Met Thr Leu Thr Asn Gly Ala Phe Ala Ser
 260 265 270
 Gly Asp Ile Trp Leu Lys Gln Gly Gly Ala Ser Trp Lys Gly Glu Asn
 275 280 285
 His Gln His Gln Leu Ser Val Asp Asn Leu Thr Ala His Val Thr Gln
 290 295 300
 Asp Lys Gly Gly Trp Gln Phe Ala Ile Pro Asp Thr Arg Ile Ser Met
 305 310 315 320
 Asp Asn Lys Pro Trp Pro Arg Gly Ala Leu Thr Leu Ala Trp Met Pro
 325 330 335
 Glu Gln Asp Val Gly Gly Ile Asn Gly Lys Arg Ser Asp Glu Leu Arg
 340 345 350
 Ile Arg Ala Ser Asn Leu Asp Leu Thr Ala Ile Glu Gly Leu Arg Ser
 355 360 365
 Met Ala Ala Lys Leu Ser Pro Glu Leu Gly Glu Ile Trp Leu Ala Thr
 370 375 380
 Gln Pro Ser Gly Gln Ile Asn Arg Leu Ala Leu Asp Ile Pro Leu Gln
 385 390 395 400
 Ala Thr Glu Lys Thr Arg Phe Gln Ala Ala Trp Lys Asn Leu Ala Trp
 405 410 415
 Lys Gln Trp Lys Leu Leu Pro Gly Ala Glu His Phe Ser Gly Lys Leu
 420 425 430
 Glu Gly Ser Val Glu Asn Gly Arg Leu Thr Ala Glu Met Gln Asp Ala

Lys	Met	Pro	Tyr	Glu	Thr	Val	Phe	Arg	Ala	Pro	Leu	Glu	Ile	Glu	Lys
450	450					455					460				
Gly	Asn	Ala	Thr	Leu	Asn	Trp	Leu	Lys	Asn	Asp	Lys	Gly	Phe	Gln	Leu
465					470					475					480
Asp	Gly	Arg	Asp	Ile	Asp	Val	Lys	Ala	Lys	Ala	Val	His	Ala	Arg	Gly
				485					490					495	
Asn	Phe	Arg	Tyr	Leu	Gln	Pro	Glu	Gly	Asp	Glu	Pro	Trp	Leu	Gly	Ile
			500					505					510		
Leu	Ala	Gly	Ile	Ser	Thr	Asp	Asp	Gly	Ser	Gln	Ala	Trp	Arg	Tyr	Phe
			515				520					525			
Pro	Glu	Asn	Leu	Met	Gly	Lys	Ala	Leu	Val	Asp	Tyr	Leu	Ser	Gly	Ala
			530			535					540				
Ile	Gln	Gly	Gly	Gln	Ala	Asp	Asn	Ala	Thr	Leu	Val	Tyr	Gly	Gly	Asn
545					550					555					560
Pro	His	Leu	Phe	Pro	Tyr	Lys	His	Asn	Glu	Gly	Gln	Phe	Gln	Val	Leu
				565					570					575	
Val	Pro	Leu	Arg	Asn	Ala	Thr	Tyr	Ala	Phe	Gln	Pro	Asp	Trp	Pro	Ala
			580					585					590		
Leu	Lys	Asn	Leu	Asp	Ile	Glu	Leu	Asn	Phe	Leu	Asn	Asp	Gly	Leu	Trp
			595				600					605			
Met	Lys	Thr	Asp	Ser	Val	Ala	Leu	Gly	Gly	Val	Thr	Ala	Ser	Asn	Leu
			610			615					620				
Thr	Ala	Asn	Ile	Pro	Asp	Tyr	Ser	Lys	Glu	Lys	Leu	Leu	Ile	Asp	Ala
625					630					635					640
Asp	Ile	Lys	Gly	Pro	Gly	Lys	Ala	Val	Gly	Pro	Tyr	Phe	Glu	Asp	Thr
				645					650					655	
Pro	Leu	Asn	Asp	Ser	Leu	Ala	Ala	Thr	Leu	Gln	Gln	Leu	Gln	Leu	Asp
			660					665					670		
Gly	Asp	Val	Asn	Ala	Arg	Leu	His	Leu	Asp	Ile	Pro	Leu	Asp	Gly	Glu
			675			680						685			
Leu	Thr	Thr	Ala	Lys	Gly	Asp	Val	Arg	Leu	Asn	Asn	Asn	Ser	Leu	Tyr
			690			695					700				
Ile	Lys	Pro	Leu	Asp	Ser	Thr	Leu	Lys	Asn	Leu	Ser	Gly	Gln	Phe	Ser
705					710					715					720
Phe	Val	Asn	Gly	Thr	Leu	Lys	Ser	Glu	Pro	Leu	Lys	Ala	Thr	Trp	Phe
				725					730					735	
Asn	Gln	Pro	Val	Asn	Ile	Asp	Phe	Ser	Thr	Thr	Glu	Gly	Asp	Lys	Ala
			740					745					750		
Tyr	Gln	Val	Ala	Val	Asn	Met	Asp	Ala	Asn	Trp	Gln	Pro	Ser	Arg	Met
			755				760					765			
Asp	Val	Leu	Pro	Lys	Pro	Ile	Glu	Asn	Ala	Val	Asp	Gly	Ala	Val	Ser
			770			775					780				
Trp	Asn	Gly	Lys	Val	Ala	Ile	Asp	Leu	Pro	Tyr	His	Ala	Gly	Ala	Arg
785					790					795</					

Leu Gly Gly Gln Gln Trp Asn Asn Leu Ser Ile Val Ser Arg Pro Thr
 930 935 940
 Val Asn Gly Ser Lys Val Glu Ala Gln Gly Arg Glu Ile Asn Gly Ser
 945 950 955 960
 Leu Ile Met Arg Asp His Ala Pro Trp Gln Ala Ala Ile Arg Tyr Leu
 965 970 975
 Tyr Tyr Asn Pro Thr Phe Thr Ala Ser Lys Ala Glu Ser Thr Ser Thr
 980 985 990
 Ser Pro Val Ser Gly Ser Gly Thr Ser Arg Val Asp Phe Ser Gly Trp
 995 1000 1005
 Pro Asp Leu Gln Leu Arg Cys Ala Glu Cys Trp Leu Trp Gly Gln Lys
 1010 1015 1020
 Tyr Gly Arg Ile Asp Gly Asp Phe Ala Ile Gln Gly Asn Thr Leu Ser
 1025 1030 1035 1040
 Leu Ser Gly Gly Leu Val Asp Thr Gly Phe Gly Arg Met Thr Ala Ala
 1045 1050 1055
 Gly Glu Trp Val Asn Lys Pro Gly Glu Gln Arg Thr Ser Leu Lys Gly
 1060 1065 1070
 Asp Ile Lys Gly Asn Lys Leu Asp Ala Ala Ala Asn Phe Phe Gly Ile
 1075 1080 1085
 Ser Thr Pro Leu Arg Gly Ser Ser Phe Asp Val Asn Tyr Asp Leu His
 1090 1095 1100
 Trp Arg Ala Ala Pro Trp Thr Pro Asp Glu Ala Ser Leu Asn Gly Ile
 1105 1110 1115 1120
 Leu Lys Thr Asn Phe Gly Lys Gly Glu Ile Ala Asp Val Ser Thr Gly
 1125 1130 1135
 Arg Ala Gly Gln Ile Leu Arg Leu Leu Ser Phe Asp Ala Leu Leu Arg
 1140 1145 1150
 Lys Leu Arg Phe Asp Phe Ser Asp Thr Phe Ser Glu Gly Phe Tyr Tyr
 1155 1160 1165
 Asp Ser Ile Arg Ser Thr Ala Trp Ile Lys Asp Gly Val Leu His Thr
 1170 1175 1180
 Asp Asp Thr Leu Val Asp Gly Leu Glu Ala Asp Ile Ala Met Lys Gly
 1185 1190 1195 1200
 Ser Val Asn Leu Val Arg Arg Glu Leu Asp Met Glu Ala Val Val Ala
 1205 1210 1215
 Pro Glu Ile Ser Ala Ser Val Gly Val Ala Ala Ala Phe Val Val Asn
 1220 1225 1230
 Pro Ile Val Gly Ala Ala Val Phe Ala Ala Ser Lys Val Leu Gly Pro
 1235 1240 1245
 Leu Trp Ser Lys Val Ser Ile Leu Arg Tyr Arg Ile Thr Gly Pro Val
 1250 1255 1260
 Asp Lys Pro Gln Ile Asn Glu Val Leu Arg Gln Pro Arg Lys Glu Ala
 1265 1270 1275 1280
 Pro Gln

<210> 8063

<211> 320

<212> PRT

<213> *Enterobacter cloacae*

<400> 8063

Tyr Arg Ala Cys Leu Ser Glu Val Asp Val Lys Thr Leu Thr Arg Lys
 1 5 10 15
 Ile Ser Arg Thr Ala Ile Thr Met Ala Leu Val Ile Leu Ala Phe Ile
 20 25 30
 Ala Ile Phe Arg Ala Trp Val Tyr Tyr Thr Glu Ser Pro Trp Thr Arg
 35 40 45
 Asp Ala Arg Phe Ser Ala Glu Val Val Ala Ile Ala Pro Asp Val Ala
 50 55 60

Gly Leu Ile Thr Ala Val Asn Val His Asp Asn Gln Leu Val Lys Lys
 65 70 75 80
 Asp Gln Val Leu Phe Thr Ile Asp Gln Pro Arg Tyr Gln Lys Ala Leu
 85 90 95
 Glu Glu Ala Glu Ala Asp Val Ala Tyr Tyr Asn Ala Leu Ala Ser Glu
 100 105 110
 Lys Arg Arg Glu Ala Gly Arg Arg Asn Lys Leu Gly Ile Gln Ala Met
 115 120 125
 Ser Arg Glu Glu Ile Asp Gln Ser Asn Asn Val Leu Gln Thr Val Leu
 130 135 140
 His Gln Leu Ala Lys Ala Gln Ala Thr Arg Asp Leu Ala Lys Leu Asp
 145 150 155 160
 Leu Glu Arg Thr Val Ile Arg Ala Pro Ser Asp Gly Trp Val Thr Asn
 165 170 175
 Leu Asn Val Tyr Ala Gly Glu Phe Ile Thr Arg Gly Ser Thr Ala Val
 180 185 190
 Ala Leu Val Lys Gln Asn Ser Phe Tyr Val Leu Ala Tyr Met Glu Glu
 195 200 205
 Thr Lys Leu Glu Gly Val Arg Pro Gly Tyr Arg Ala Glu Ile Thr Pro
 210 215 220
 Leu Gly Ser Asn Arg Val Leu Lys Gly Thr Val Asp Ser Val Ala Ala
 225 230 235 240
 Gly Val Thr Asn Ser Ser Ser Thr Asn Asp Ser Lys Gly Met Ala Thr
 245 250 255
 Val Asp Ser Asn Leu Glu Trp Val Arg Leu Ala Gln Arg Val Pro Val
 260 265 270
 Arg Ile Arg Leu Asp Glu Gln Gln Ser Asn Leu Trp Pro Ala Gly Thr
 275 280 285
 Thr Ala Thr Val Val Ile Thr Gly Glu Lys Asp Arg Asp Ala Ser Gln
 290 295 300
 Asp Ser Ile Phe Arg Gln Ile Ala His Arg Leu Arg Glu Phe Gly
 305 310 315 320

<210> 8064

<211> 661

<212> PRT

<213> Enterobacter cloacae

<400> 8064

Cys Ser Leu Ala Pro Pro Ser Thr His Gly Val Ile Ser Arg Met Arg
 1 5 10 15
 Leu Thr Thr Lys Phe Ser Ala Phe Ile Thr Leu Leu Thr Gly Leu Thr
 20 25 30
 Ile Phe Val Thr Leu Ile Gly Cys Ser Leu Ser Phe Tyr Asn Ala Ile
 35 40 45
 Gln Asp Lys Leu Val Asn Arg Val Glu Ser Val Ala Ser Val Ile Asp
 50 55 60
 Thr Arg Leu Ile Thr Ser Ser Phe Pro Ala Leu Ser Arg Glu Leu Asp
 65 70 75 80
 Glu Leu Met Val Pro Val Asp Ile Val Gln Ile Asp Ile Lys Gln Gly
 85 90 95
 Lys Gln Thr Val Phe Ser His Thr Arg Gln Gly Ser Tyr Arg Pro Ala
 100 105 110
 Gly Thr Val Asp Gln Tyr Arg Asp Val Thr Val Asn Ser Leu Lys His
 115 120 125
 Pro Gly Met Thr Ile His Leu Met Tyr Gln Asp Pro Met Ser Asn Tyr
 130 135 140
 Leu Arg Ser Leu Met Thr Thr Ala Pro Leu Thr Ile Ala Val Ala Phe
 145 150 155 160
 Ile Val Leu Leu Ile Phe Leu Ala Val Arg Trp Gln Arg Arg Gln Leu
 165 170 175

Ser Gly Gln Glu Leu Leu Glu Thr Arg Ser Val Arg Ile Leu Asn Gly
 180 185 190
 Glu Arg Gly Pro Gln Val Arg Gly Ser Val Tyr Glu Trp Pro Ser Arg
 195 200 205
 Thr Ser Ser Ala Leu Asp Val Leu Leu Ser Glu Ile Gln Phe Ala Ser
 210 215 220
 Asp Gln Arg Ser Arg Met Asp Thr Leu Ile Arg Ser Tyr Ala Ala Gln
 225 230 235 240
 Asp Asn Lys Thr Gly Leu Asn Asn Arg Leu Phe Phe Asp Asn Gln Leu
 245 250 255
 Ala Thr Leu Leu Asp Asp Pro Glu Lys Val Gly Thr His Gly Val Val
 260 265 270
 Met Met Ile Arg Leu Pro Asp Phe Asp Leu Leu Arg Asp Thr Trp Gly
 275 280 285
 Gln Arg Val Ala Glu Glu Asn Leu Phe Thr Leu Ile Asn Leu Leu Ser
 290 295 300
 Thr Phe Ile Met Arg Tyr Pro Gly Ala Leu Leu Ala Arg Tyr His Arg
 305 310 315 320
 Ser Asp Phe Ala Val Leu Leu Pro His Arg Thr Leu Lys Glu Ser Glu
 325 330 335
 Ser Ile Ala Ser Gln Leu Leu Lys Ala Val Asp Ala Leu Pro Gln Ser
 340 345 350
 Lys Met Leu Asp Arg Asp Asp Met Val His Ile Gly Ile Cys Ala Trp
 355 360 365
 Arg Gly Gly Gln Ser Thr Glu Gln Val Met Glu His Ala Glu Ala Ala
 370 375 380
 Thr Arg Asn Ala Val Leu Gln Gly Ala Asn Gly Trp Ala Val Tyr Asp
 385 390 395 400
 Asp Thr Leu Pro Glu Lys Gly Arg Gly Asn Val Arg Trp Arg Thr Leu
 405 410 415
 Ile Glu Gln Met Leu Ser Arg Gly Gly Pro Arg Ile Tyr Gln Lys Pro
 420 425 430
 Ala Val Met Lys Ser Gly His Val His His Arg Glu Leu Met Cys Arg
 435 440 445
 Ile Phe Asp Gly Thr Glu Glu Val Ile Ser Ala Glu Tyr Leu Pro Met
 450 455 460
 Val Leu Gln Phe Gly Leu Ser Glu Glu Tyr Asp Arg Gln Gln Ile Thr
 465 470 475 480
 Arg Leu Ile Pro Phe Leu Ser Tyr Trp Pro Glu Glu Asn Leu Ala Leu
 485 490 495
 Gln Val Thr Val Glu Ser Leu Ile Arg Pro Arg Phe Gln Arg Trp Leu
 500 505 510
 Arg Asp Thr Leu Met Gln Cys Glu Lys Ser Gln Arg Lys Arg Ile Ile
 515 520 525
 Phe Glu Leu Ala Glu Ala Asp Val Gly Gln His Ile Ser Arg Leu Arg
 530 535 540
 Pro Val Val Arg Leu Ile Asn Ala Leu Gly Ala Arg Val Ala Val Thr
 545 550 555 560
 Gln Ala Gly Leu Thr Leu Val Ser Thr Ser Trp Ile Lys Glu Leu Asp
 565 570 575
 Val Glu Leu Leu Lys Leu His Pro Gly Leu Val Arg Asn Ile Glu Lys
 580 585 590
 Arg Thr Glu Asn Gln Leu Leu Val Gln Ser Leu Val Glu Ala Cys Lys
 595 600 605
 Gly Thr Gln Thr Gln Val Phe Ala Thr Gly Val Arg Ser Arg Ser Glu
 610 615 620
 Trp Gln Met Leu Thr Glu Arg Gly Val Thr Gly Gly Gln Gly Asp Phe
 625 630 635 640
 Phe Ala Ala Ser Gln Pro Leu Asp Thr Asn Val Lys Lys Tyr Leu Gln
 645 650 655
 Arg Tyr Ser Val

660

<210> 8065

<211> 390

<212> PRT

<213> *Enterobacter cloacae*

<400> 8065

Gln Arg Lys Arg Ala Ala Leu Ile Phe Thr Val Ala Asp Asp Phe Cys
 1 5 10 15
 Ala Leu Ser Leu Leu Arg Val Val Gly Lys Val Ser Gly Phe Cys Phe
 20 25 30
 Pro Pro Gln Leu Ser Gly Leu Ser Leu Ser Met Leu Lys Lys Phe Arg
 35 40 45
 Gly Met Phe Ser Asn Asp Leu Ser Ile Asp Leu Gly Thr Ala Asn Thr
 50 55 60
 Leu Ile Tyr Val Lys Gly Gln Gly Ile Val Leu Asn Glu Pro Ser Val
 65 70 75 80
 Val Ala Ile Arg Gln Asp Arg Ala Gly Ser Pro Lys Ser Val Ala Ala
 85 90 95
 Val Gly His Asp Ala Lys Gln Met Leu Gly Arg Thr Pro Gly Asn Ile
 100 105 110
 Ala Ala Ile Arg Pro Met Lys Asp Gly Val Ile Ala Asp Phe Phe Val
 115 120 125
 Thr Glu Lys Met Leu Gln His Phe Ile Lys Gln Val His Ser Asn Ser
 130 135 140
 Phe Met Arg Pro Ser Pro Arg Val Leu Val Cys Val Pro Val Gly Ala
 145 150 155 160
 Thr Gln Val Glu Arg Arg Ala Ile Arg Glu Ser Ala Gln Gly Ala Gly
 165 170 175
 Ala Arg Glu Val Phe Leu Ile Glu Glu Pro Met Ala Ala Ile Gly
 180 185 190
 Ala Gly Leu Pro Val Ser Glu Ala Thr Gly Ser Met Val Val Asp Ile
 195 200 205
 Gly Gly Gly Thr Thr Glu Val Ala Val Ile Ser Leu Asn Gly Val Val
 210 215 220
 Tyr Ser Ser Ser Val Arg Ile Gly Gly Asp Arg Phe Asp Glu Ala Ile
 225 230 235 240
 Ile Asn Tyr Val Arg Arg Asn Tyr Gly Ser Leu Ile Gly Glu Ala Thr
 245 250 255
 Ala Glu Arg Ile Lys His Glu Ile Gly Ser Ala Tyr Pro Gly Asp Glu
 260 265 270
 Val Arg Glu Ile Glu Val Arg Gly Arg Asn Leu Ala Glu Gly Val Pro
 275 280 285
 Arg Gly Phe Thr Leu Asn Ser Asn Glu Ile Leu Glu Ala Leu Gln Glu
 290 295 300
 Pro Leu Thr Gly Ile Val Ser Ala Val Met Val Ala Leu Glu Gln Cys
 305 310 315 320
 Pro Pro Glu Leu Ala Ser Asp Ile Ser Glu Arg Gly Met Val Leu Thr
 325 330 335
 Gly Gly Gly Ala Leu Leu Arg Asn Leu Asp Arg Leu Leu Met Glu Glu
 340 345 350
 Thr Gly Ile Pro Val Val Ala Glu Asp Pro Leu Thr Cys Val Ala
 355 360 365
 Arg Gly Gly Gly Lys Ala Leu Glu Met Ile Asp Met His Gly Gly Asp
 370 375 380
 Leu Phe Ser Glu Glu
 385 390

<210> 8066

<211> 558

<212> PRT

<213> *Enterobacter cloacae*

<400> 8066

Ala Thr Ala Gly Gly Ala Gly Tyr Leu Pro Gly Glu Thr Ala Asp Leu
 1 5 10 15
 Gly Ser Ala Ala Gly Tyr Arg Ala Gly Arg Ala Ala Gly Val Tyr
 20 25 30
 Ala Ala Pro Leu Pro Glu Cys Ala Asp Arg Gln Leu Thr Lys Arg Lys
 35 40 45
 Pro Thr Pro Lys Ala Ser Val Phe Leu Trp Leu Tyr Leu Phe Leu Gln
 50 55 60
 Val Gln Thr Phe Arg Lys Gly Gly His Met Thr Thr Gln Ala Leu Gln
 65 70 75 80
 Asp Ser Ile Leu Phe Gln Thr Gly Tyr Leu Val Asn Gly Ile Trp Lys
 85 90 95
 Thr Leu Asp Thr Thr Phe Asp Val Leu Asn Pro Ala Thr Gly Glu Val
 100 105 110
 Ile Ala Lys Val Ala Lys Ala Gly Lys Ala Glu Thr Glu Glu Ala Ile
 115 120 125
 Val Ala Ala Thr Lys Ala Phe Pro Ala Trp Arg Ala Lys Thr Ala Lys
 130 135 140
 Glu Arg Ser Ala Ile Leu Tyr Arg Trp Tyr Glu Leu Ile Ile Glu Asn
 145 150 155 160
 Lys Ser Trp Leu Gly Arg Leu Met Thr Thr Gln Gly Lys Pro Leu
 165 170 175
 Lys Glu Ala Glu Gly Glu Val Asp Tyr Ala Ala Ser Phe Ile Gln Trp
 180 185 190
 Phe Ala Glu Gln Ala Lys Arg Ala Asn Gly Glu Ile Ile Pro Pro Val
 195 200 205
 Lys Pro Gly Ser Arg Ile Leu Ala Thr Arg Glu Pro Val Gly Val Val
 210 215 220
 Ala Ala Ile Thr Pro Trp Asn Phe Pro Met Ala Met Leu Thr Arg Lys
 225 230 235 240
 Leu Gly Pro Ala Leu Ala Ala Gly Cys Thr Gly Val Ile Lys Pro Ala
 245 250 255
 Asn Asn Thr Pro Leu Ser Ala Phe Ala Leu Leu Thr Leu Ala Lys Gln
 260 265 270
 Ala Gly Val Pro Asp Gly Val Leu Asn Ala Val Ala Gly Ser Thr Ser
 275 280 285
 Glu Ile Ser Asp Ala Ile Met Ala Ser His Asp Val Arg Lys Ile Ser
 290 295 300
 Phe Thr Gly Ser Thr Ala Val Gly Lys Thr Leu Val Arg Asn Ser Ala
 305 310 315 320
 Glu Thr Met Lys Lys Val Ser Met Glu Leu Gly Gly Asn Ala Pro Tyr
 325 330 335
 Ile Val Phe Glu Asp Ala Asp Ile Asp Ala Ala Val Lys Gly Ala Ile
 340 345 350
 Ala Asn Lys Phe Arg Asn Ala Gly Gln Val Cys Val Ser Val Asn Arg
 355 360 365
 Phe Tyr Ile Gln Glu Thr Val Tyr Asp Lys Phe Val Asn Gln Leu Ala
 370 375 380
 Asp Ala Val Lys Ala Leu Lys Val Gly Asn Gly Leu Asp Glu Gly Val
 385 390 395 400
 Val Val Gly Pro Leu Ile Glu Pro Ser Ala Val Glu Lys Val Arg Glu
 405 410 415
 His Val Glu Asp Ala Val Ala Lys Gly Ala Thr Val Leu Ala Gly Gly
 420 425 430
 Lys Pro His Glu Leu Gly Gly Asn Phe Trp Met Pro Thr Val Leu Gly
 435 440 445
 Asp Cys His Glu Gly Met Lys Leu Ala Glu Glu Glu Thr Phe Gly Pro

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      450              455              460
Val Ala Ala Cys Phe Arg Phe Thr Ser Glu Asp Glu Val Val Met Arg
465              470              475              480
Ala Asn Asn Thr Pro Tyr Gly Leu Ala Ala Tyr Phe Tyr Thr Gln Asn
      485              490              495
Leu Ser Arg Val Phe Arg Val Ser Gln Ala Ile Glu Ser Gly Met Ile
      500              505              510
Gly Ile Asn Glu Cys Ala Val Ser Thr Glu Leu Gly Pro Phe Gly Gly
      515              520              525
Val Lys Glu Ser Gly Leu Gly Arg Glu Gly Ser Val Leu Gly Leu Glu
      530              535              540
Glu Phe Leu Glu Val Lys Thr Leu His Ile Gly Gly Leu
      545              550              555

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<210> 8067

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 8067

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Thr Gly Arg His Leu Pro Pro Ala Cys Thr Gly Trp Leu Ala Met Lys
1              5              10              15
Ile Tyr Thr Phe Asp Phe Asp Glu Ile Glu Ser Gln Glu Asp Phe Tyr
      20              25              30
Arg Glu Phe Ile Arg Ala Phe Asp Leu Glu Arg Gly Ser Val Ser Asn
      35              40              45
Leu Asp Met Leu Trp Asp Val Val Thr Gly Asp Arg Leu Pro Leu Pro
      50              55              60
Leu Glu Ile Glu Phe Thr His Leu Pro Glu Lys Leu Arg Arg Arg Phe
      65              70              75              80
Gly Ala Leu Ile Leu Phe Asp Glu Ala Glu Glu Glu Leu Glu Gly
      85              90              95
Gln Leu Arg Phe Asn Val Arg Gln
      100              105

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<210> 8068

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 8068

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Cys Pro Asp Asn Ser Cys Tyr Ala Ala Asn Arg Ser Phe Phe Asn Asp
1              5              10              15
Thr Arg Ile Met Leu Leu Lys Leu Phe Arg Ser Ile Val Ile Gly Leu
      20              25              30
Ile Val Ala Gly Leu Leu Leu Val Ala Met Pro Ser Leu Arg Gln Phe
      35              40              45
Asn Lys Leu Ser Ala Pro Gln Phe Asp Ser Thr Asp Glu Thr Pro Ala
      50              55              60
Thr Tyr Asn Gln Ala Val Arg Arg Ala Ala Pro Ala Val Val Asn Val
      65              70              75              80
Tyr Asn Arg Gly Leu Asn Ser Ser Ala His Asn Gln Leu Glu Ile Arg
      85              90              95
Thr Leu Gly Ser Gly Val Ile Met Asp Asp Arg Gly Tyr Ile Ile Thr
      100              105              110
Asn Lys His Val Ile Asn Asp Ala Asp Gln Ile Ile Val Ala Leu Gln
      115              120              125
Asp Gly Arg Val Phe Glu Ala Leu Leu Val Gly Ser Asp Ser Leu Thr
      130              135              140
Asp Leu Ala Val Leu Lys Ile Asn Ala Thr Gly Gly Leu Pro Thr Ile
      145              150              155              160

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Pro Ile Asn Arg Lys Arg Thr Pro His Ile Gly Asp Val Val Leu Ala
 165 170 175
 Ile Gly Asn Pro Tyr Asn Leu Gly Gln Thr Ile Thr Gln Gly Ile Ile
 180 185 190
 Ser Ala Thr Gly Arg Ile Gly Leu Asn Pro Ser Gly Arg Gln Asn Phe
 195 200 205
 Leu Gln Thr Asp Ala Ser Ile Asn His Gly Asn Ser Gly Gly Ala Leu
 210 215 220
 Val Asn Ser Leu Gly Glu Leu Met Gly Ile Asn Thr Leu Ser Phe Asp
 225 230 235
 Lys Ser Asn Asp Gly Glu Thr Pro Glu Gly Ile Gly Phe Ala Ile Pro
 245 250 255
 Phe Gln Leu Ala Thr Lys Ile Met Asp Lys Leu Ile Arg Asp Gly Arg
 260 265 270
 Val Ile Arg Gly Tyr Ile Gly Ile Gly Gly Arg Glu Ile Ala Pro Met
 275 280 285
 His Thr Gln Gly Gly Gly Ile Asp Gln Ile Gln Gly Ile Val Val Asn
 290 295 300
 Glu Val Ala Pro Gly Gly Pro Ala Ala Asn Ala Gly Ile Gln Val Asn
 305 310 315
 Asp Val Ile Leu Ser Val Asn Gly Thr Pro Ala Val Ser Ala Leu Glu
 325 330 335
 Thr Met Asp Gln Val Ala Glu Ile Arg Pro Gly Ser Ile Ile Pro Val
 340 345 350
 Glu Val Met Arg Asn Asp Lys Lys Leu Thr Ile Gln Val Thr Ile Gln
 355 360 365
 Glu Tyr Pro Ala Thr Asn
 370 375

<210> 8069

<211> 354

<212> PRT

<213> *Enterobacter cloacae*

<400> 8069

His Ile Arg Ala Asn Pro Pro Pro Pro Ser Cys Leu Glu Lys Arg Leu
 1 5 10 15
 Thr Glu Asp Ala Met Lys Thr Arg Lys Leu Thr Glu Ala Asp Val Thr
 20 25 30
 Ser Glu Ser Val Phe Met Leu Gln Arg Arg Gln Ile Leu Lys Met Leu
 35 40 45
 Gly Ile Ser Ala Thr Ala Leu Thr Leu Thr Pro Ala Ala His Ala Asp
 50 55 60
 Leu Leu Asp Trp Phe Lys Gly Asn Asp Arg Pro Lys Ala Pro Ser Gly
 65 70 75 80
 Ala Pro Leu Asp Phe Thr Lys Pro Ala Gln Trp Gln Asn Lys Leu Thr
 85 90 95
 Leu Thr Pro Glu Asp Lys Val Thr Gly Tyr Asn Asn Phe Tyr Glu Phe
 100 105 110
 Gly Leu Asp Lys Ala Asp Pro Ala Ala Asn Ala Gly Ser Met Lys Thr
 115 120 125
 Asp Pro Trp Thr Leu Lys Ile Asp Gly Glu Val Ala Lys Pro Val Thr
 130 135 140
 Leu Asp His His Asp Leu Thr Thr Arg Phe Pro Leu Glu Glu Arg Ile
 145 150 155 160
 Tyr Arg Met Arg Cys Val Glu Ala Trp Ser Met Val Val Pro Trp Val
 165 170 175
 Gly Phe Pro Leu His Lys Leu Leu Ala Leu Val Glu Pro Thr Ser Asn
 180 185 190
 Ala Lys Tyr Val Ser Phe Gln Thr Arg Tyr Ala Pro Asp Glu Met Pro
 195 200 205

Gly Gln Lys Asp Arg Phe Ile Gly Gly Gly Leu Glu Tyr Pro Tyr Val
 210 215 220
 Glu Gly Leu Arg Leu Asp Glu Ala Met His Pro Leu Thr Leu Leu Thr
 225 230 235 240
 Val Gly Val Tyr Gly Lys Ala Leu Pro Pro Gln Asn Gly Ala Pro Ile
 245 250 255
 Arg Leu Thr Val Pro Trp Lys Tyr Gly Phe Lys Gly Ile Lys Ser Ile
 260 265 270
 Val Ser Ile Lys Leu Thr Arg Glu Arg Pro Pro Thr Thr Trp Asn Leu
 275 280 285
 Ala Ala Pro Asp Glu Tyr Gly Phe Phe Ala Asn Val Asn Pro His Val
 290 295 300
 Asp His Pro Arg Trp Ser Gln Ala Thr Glu Arg Phe Ile Gly Ser Gly
 305 310 315 320
 Gly Ala Leu Asp Val Lys Arg Gln Pro Thr Leu Leu Phe Asn Gly Tyr
 325 330 335
 Ala Asp Glu Val Ala Ser Leu Tyr Arg Gly Leu Asn Leu Arg Glu Asn
 340 345 350
 Phe

<210> 8070

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 8070

Val Arg Leu Thr Ala Lys Gln Ile Thr Trp Leu Lys Val Leu Leu His
 1 5 10 15
 Leu Ala Gly Leu Leu Pro Phe Ile Trp Leu Phe Trp Ala Ala Ser Gln
 20 25 30
 Gly Gln Phe Ser Ala Asp Pro Ala Lys Asp Ile Gln His Phe Thr Gly
 35 40 45
 Arg Met Ala Leu Lys Phe Leu Leu Ala Thr Leu Leu Val Ser Pro Leu
 50 55 60
 Ala Arg Tyr Ala Lys Gln Pro Val Phe Thr Arg Asp Gly Asp His Val
 65 70 75 80
 Lys

<210> 8071

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 8071

His Gln Asp Val Phe Gly Ala Val Leu Phe His Ser Arg Ile Arg Glu
 1 5 10 15
 Ser Ala Ser Met Lys Lys Lys Asn Gln Leu Ser Ala Leu Ala Leu
 20 25 30
 Ser Val Gly Leu Ser Leu Ser Ala Ser Phe Pro Ala Ser Ala Ala Leu
 35 40 45
 Pro Ser Gln Val Pro Gly Gln Glu Ala Ile Pro Ser Leu Ala Pro Met
 50 55 60
 Leu Glu Lys Val Leu Pro Ala Val Val Ser Val Gln Val Glu Gly Thr
 65 70 75 80
 Ala Arg Gln Ser Gln Arg Ile Pro Glu Glu Leu Lys Lys Tyr Phe Gly
 85 90 95
 Glu Asp Ala Pro Asp Gln Gln Ala Gln Pro Phe Glu Gly Leu Gly Ser
 100 105 110
 Gly Val Ile Ile Asp Ala Ala Lys Gly Tyr Ile Leu Thr Asn Asn His

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115      120      125
Val Ile Ser Gln Ala Asp Lys Ile Ser Val Gln Leu Asn Asp Gly Arg
130      135      140
Glu Phe Asp Ala Lys Leu Ile Gly Gly Asp Asp Gln Ser Asp Ile Ala
145      150      155      160
Leu Leu Gln Val Gln Asn Pro Ser Asn Leu Thr Gln Ile Ala Ile Ala
165      170      175
Asp Ser Asp Lys Leu Arg Val Gly Asp Phe Ala Val Ala Val Gly Asn
180      185      190
Pro Phe Gly Leu Gly Gln Thr Ala Thr Ser Gly Ile Val Ser Ala Leu
195      200      205
Gly Arg Ser Gly Leu Asn Leu Glu Gly Leu Glu Asn Phe Ile Gln Thr
210      215      220
Asp Ala Ser Ile Asn Arg Gly Asn Ser Gly Gly Ala Leu Leu Asn Leu
225      230      235      240
Asn Gly Glu Leu Ile Gly Ile Asn Thr Ala Ile Leu Ala Pro Gly Gly
245      250      255
Gly Ser Ile Gly Ile Gly Phe Ala Ile Pro Ser Asn Met Ala Lys Thr
260      265      270
Leu Ser Gln Leu Ile Gln Phe Gly Glu Val Lys Arg Gly Leu Leu
275      280      285
Gly Ile Lys Gly Met Glu Met Ser Ala Asp Ile Ala Lys Ala Phe Lys
290      295      300
Leu Asn Val Gln Arg Gly Ala Phe Val Ser Glu Val Leu Pro Asn Ser
305      310      315      320
Gly Ser Ala Lys Ala Gly Val Lys Ser Gly Asp Val Ile Val Ser Leu
325      330      335
Asn Asp Lys Pro Leu Ser Ser Phe Ala Glu Leu Arg Ser Arg Ile Ala
340      345      350
Thr Thr Glu Pro Gly Ala Lys Val Lys Leu Gly Leu Ile Arg Glu Gly
355      360      365
Lys Pro Leu Thr Val Glu Val Thr Leu Asp Lys Ser Thr Ser Ser Ser
370      375      380
Ala Ser Ala Glu Gln Ile Ser Pro Ala Leu Gln Gly Ala Thr Leu Ser
385      390      395      400
Asp Gly Gln Leu Lys Asn Gly Thr Lys Gly Ile Ser Val Thr Thr Val
405      410      415
Glu Lys Ser Ser Pro Ala Ala Gln Ala Gly Leu His Gln Asp Asp Val
420      425      430
Ile Val Gly Val Asn Arg Thr Ser Val Gln Ser Ile Ala Glu Met Arg
435      440      445
Lys Val Leu Glu Ser Lys Pro Ala Val Ile Ala Leu Gln Ile Ile Arg
450      455      460
Gly Asn Asp Thr Leu Tyr Ile Leu Leu Arg
465      470      475

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<210> 8072

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 8072

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Leu Met Arg Ser Ser Ser Lys Gln Glu Glu Leu Val Lys Ala Phe Lys
1      5      10      15
Ala Leu Leu Lys Glu Glu Lys Phe Ser Ser Gln Gly Arg Asn Cys Ser
20      25      30
Gly Val Ala Gly Thr Arg Leu Arg Gln His Gln Pro Val Glu Gly Leu
35      40      45
Ser His Val Asn Gln Val Trp Ser Gly Ala Tyr Ala Gln Arg Gln Asn
50      55      60
Gly Asn Gly Leu Leu Pro Ala Cys

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65

70

<210> 8073

<211> 328

<212> PRT

<213> *Enterobacter cloacae*

<400> 8073

Gly Pro Cys Met Gln Ala Leu Ile Leu Glu Gln Gln Asp Gly Lys Thr
 1 5 10 15
 Val Ala Ser Val Gln Ala Ile Glu Glu Asn Arg Leu Pro Glu Gly Asp
 20 25 30
 Val Thr Val Asp Ile Asp Trp Ser Leu Asn Tyr Lys Asp Ala Leu
 35 40 45
 Ala Ile Thr Gly Lys Gly Lys Ile Ile Arg Asn Phe Pro Met Val Pro
 50 55 60
 Gly Ile Asp Phe Ala Gly Arg Val His Thr Ser Glu Asp Pro Arg Phe
 65 70 75 80
 His Ala Gly Gln Gln Val Leu Leu Thr Gly Trp Gly Val Gly Glu Asn
 85 90 95
 His Trp Gly Gly Leu Ala Ala Gln Ala Arg Val Lys Gly Asp Trp Leu
 100 105 110
 Val Pro Met Pro Lys Gly Leu Asp Gly Arg Lys Ala Met Ile Ile Gly
 115 120 125
 Thr Ala Gly Phe Thr Ala Met Leu Cys Val Met Ala Leu Glu Glu Ala
 130 135 140
 Gly Ile Arg Pro Asp Ser Gly Glu Ile Val Val Thr Gly Ala Ser Gly
 145 150 155 160
 Gly Val Gly Ser Thr Ala Val Thr Leu Leu His Lys Leu Gly Tyr Gln
 165 170 175
 Val Ala Ala Val Ser Gly Arg Glu Ser Thr His Asp Tyr Leu Arg Gln
 180 185 190
 Leu Gly Ala Ser Arg Ile Leu Ser Arg Asp Glu Phe Ala Glu Thr Arg
 195 200 205
 Pro Leu Glu Lys Gln Val Trp Ala Gly Ala Val Asp Thr Val Gly Asp
 210 215 220
 Asn Val Leu Ala Lys Val Leu Ala Gln Met Asn Tyr Gly Gly Cys Val
 225 230 235 240
 Ala Ala Cys Gly Leu Ala Gly Gly Phe Ala Leu Pro Thr Thr Val Met
 245 250 255
 Pro Phe Ile Leu Arg Asn Val Arg Leu Gln Gly Val Asp Ser Val Met
 260 265 270
 Ser Pro Ala Glu Arg Arg Ala Glu Ala Trp Glu Arg Leu Val Gln Asp
 275 280 285
 Leu Pro Ala Ser Phe Tyr Glu Gln Ser Ala Thr Glu Ile Thr Leu Ser
 290 295 300
 Gln Ala Pro Glu Phe Ala Asn Lys Ile Met Asp Asn Gln Phe His Gly
 305 310 315 320
 Arg Ala Leu Val Lys Ile Ala
 325

<210> 8074

<211> 158

<212> PRT

<213> *Enterobacter cloacae*

<400> 8074

Glu Thr Ser Pro Ser Ser Pro Arg Arg Val Lys Gln Pro Thr Pro Gly
 1 5 10 15
 Gly Thr Thr Arg Gln Arg Glu Lys Phe Met Thr Trp Glu Tyr Ala Leu
 20 25 30

Ile Gly Leu Val Val Gly Ile Ile Gly Ala Val Ala Met Arg Phe
 35 40 45
 Gly Asn Arg Lys Leu Arg Gln Gln Gln Ser Leu Gln Tyr Glu Leu Glu
 50 55 60
 Lys Asn Lys Ala Glu Leu Glu Glu Tyr Arg Glu Glu Leu Val Ser His
 65 70 75 80
 Phe Ala Arg Ser Ala Glu Leu Leu Asp Asn Met Ala Thr Asp Tyr Arg
 85 90 95
 Gln Leu Tyr Gln His Met Ala Lys Ser Ser Ser Leu Leu Pro Glu
 100 105 110
 Met Thr Ala Glu Thr Asn Pro Phe Arg Asn Arg Leu Ala Asp Ser Glu
 115 120 125
 Ala Gly Asn Asp Gln Ala Pro Val Gln Met Pro Arg Asp Tyr Ser Asp
 130 135 140
 Gly Ala Ser Gly Leu Leu Arg Gly Gly Val Lys Arg Asp
 145 150 155

<210> 8075

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 8075

Arg Arg Leu Lys Arg Tyr Ser Lys Lys Arg Asn Ser Val Leu Arg Gly
 1 5 10 15
 Glu Ile Val Gln Ala Leu Gln Glu Gln Gly Phe Asp Asn Ile Asn Gln
 20 25 30
 Ser Lys Val Ser Arg Met Leu Thr Lys Phe Gly Ala Val Arg Thr Arg
 35 40 45
 Asn Ala Lys Met Glu Met Val Tyr Cys Leu Pro Ala Glu Leu Gly Val
 50 55 60
 Pro Thr Thr Ser Ser Pro Leu Lys Asn Leu Val Leu Asp Ile Asp Tyr
 65 70 75 80
 Asn Asp Ala Val Val Val Ile His Thr Ser Pro Gly Ala Ala Gln Leu
 85 90 95
 Ile Ala Arg Leu Leu Asp Ser Leu Gly Lys Ala Glu Gly Ile Leu Gly
 100 105 110
 Thr Ile Ala Gly Asp Asp Thr Ile Phe Thr Thr Pro Ala Asn Gly Phe
 115 120 125
 Ser Val Lys Asp Leu Tyr Glu Ala Ile Leu Val Leu Phe Glu Gln Glu
 130 135 140
 Leu
 145

<210> 8076

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 8076

Ile Ile Met Lys Ile Lys Thr Thr Val Ala Thr Leu Ser Val Leu Ser
 1 5 10 15
 Val Leu Ser Phe Gly Ala Phe Ala Ala Asp Thr Ile Asn Ala Glu Gln
 20 25 30
 Ala Gln Ser Arg Gln Ala Ile Gly Thr Val Ser Val Gly Ala Ile Gly
 35 40 45
 Thr Ser Pro Met Asp Met His Glu Met Leu Asn Lys Lys Ala Glu Glu
 50 55 60
 Gln Gly Ala Ser Ser Tyr Arg Ile Ile Glu Ala Arg Ser Gly Asp His
 65 70 75 80
 Trp His Ala Thr Ala Glu Leu Tyr Lys

<210> 8077
 <211> 179
 <212> PRT
 <213> Enterobacter cloacae

<400> 8077
 Lys Arg Phe Thr Leu Thr Gln Thr Cys Pro Ala Leu Arg Asn Leu Leu
 1 5 10 15
 Ala Ile Ala Pro Leu Thr Ala Ala Ser Ile Ser Ala Ser Ser Lys Thr
 20 25 30
 Ile Tyr Gly Ala Leu Pro Pro Ser Ser Ile Asp Thr Phe Phe Met Val
 35 40 45
 Ser Ala Glu Leu Arg Thr Ser Val Phe Pro Thr Ala Val Glu Pro Val
 50 55 60
 Asn Glu Ile Leu Arg Thr Ser Trp Leu Ala Ile Met Ala Ser Leu Ile
 65 70 75 80
 Ser Glu Val Leu Pro Ala Thr Ala Phe Ser Thr Pro Ser Gly Thr Pro
 85 90 95
 Ala Cys Phe Ala Ser Val Ser Ser Ala Lys Ala Leu Ser Gly Val Leu
 100 105 110
 Phe Ala Gly Leu Ile Thr Pro Val His Pro Ala Ala Ser Ala Gly Pro
 115 120 125
 Ser Leu Arg Val Ser Ile Ala Ile Gly Lys Phe His Gly Val Ile Ala
 130 135 140
 Ala Thr Thr Pro Thr Gly Ser Arg Val Ala Arg Ile Arg Glu Pro Gly
 145 150 155 160
 Leu Thr Gly Gly Met Ile Ser Pro Leu Ala Arg Leu Ala Cys Ser Ala
 165 170 175
 Asn His

<210> 8078
 <211> 310
 <212> PRT
 <213> Enterobacter cloacae

<400> 8078
 Ile Met Glu Arg Leu Lys Arg Met Ser Val Phe Ala Lys Val Val Glu
 1 5 10 15
 Gln Gly Ser Phe Thr Ala Ala Ala Arg Gln Leu Gln Met Ser Val Ser
 20 25 30
 Ser Ile Ser Gln Thr Val Ser Lys Leu Glu Asp Glu Leu Gln Val Lys
 35 40 45
 Leu Leu Asn Arg Ser Thr Arg Ser Ile Gly Leu Thr Glu Ala Gly Lys
 50 55 60
 Ile Tyr Tyr Gln Gly Cys Arg Arg Met Leu His Glu Val Gln Asp Val
 65 70 75 80
 His Glu Gln Leu Tyr Ala Phe Asn Asn Thr Pro Ile Gly Thr Leu Arg
 85 90 95
 Ile Gly Cys Ser Ser Thr Met Ala Gln Asn Val Leu Ala Ala Met Thr
 100 105 110
 Ala Glu Met Leu Lys Glu Tyr Pro Gly Leu Thr Val Asn Leu Val Thr
 115 120 125
 Gly Ile Pro Ala Pro Asp Leu Ile Ala Asp Gly Leu Asp Val Val Ile
 130 135 140
 Arg Val Gly Ala Leu Gln Asp Ser Ser Leu Phe Ser Arg Arg Leu Gly
 145 150 155 160
 Ser Met Pro Met Val Val Cys Ala Ser Lys Ser Tyr Leu Ala Gln Tyr
 165 170 175

Gly Val Pro Glu Lys Pro Ala Asp Leu Ser Asn His Ser Trp Leu Glu
 180 185 190
 Tyr Ser Val Arg Pro Asp Asn Glu Phe Glu Leu Ile Ala Pro Glu Gly
 195 200 205
 Leu Ser Thr Lys Leu Leu Pro Glu Gly Arg Phe Val Thr Asn Asp Pro
 210 215 220
 Met Thr Ile Ser Arg Trp Leu Val Ala Gly Ala Gly Ile Ala Tyr Val
 225 230 235 240
 Pro Leu Met Trp Val Ile Asn Glu Ile Asn Ser Gly Val Leu Glu Ile
 245 250 255
 Leu Phe Pro Arg Tyr Gln Ser Asp Pro Arg Pro Val Tyr Ala Leu Tyr
 260 265 270
 Thr Glu Lys Asp Lys Leu Pro Leu Lys Val Gln Val Cys Ile Asn Tyr
 275 280 285
 Leu Thr Asp Tyr Phe Val Glu Val Ala Glu Leu Phe Gln Gly Met Arg
 290 295 300
 Gly Arg Arg Lys Glu
 305 310

<210> 8079

<211> 577

<212> PRT

<213> Enterobacter cloacae

<400> 8079

Ile Asp Asp Asn Tyr Cys Ser Gly Phe Phe Met Arg Gln Leu Asn Arg
 1 5 10 15
 Leu Asn Gln Tyr Gln Arg Leu Trp His Pro Ser Ala Gly Ala Pro Gln
 20 25 30
 Gln Val Thr Ile Ser Glu Leu Ala Ser Arg Cys Phe Cys Ser Glu Arg
 35 40 45
 His Val Arg Thr Leu Leu Arg Gln Ala Gln Glu Ala Gly Trp Leu Ser
 50 55 60
 Trp His Ala Arg Ser Gly Arg Gly Lys Arg Gly Glu Leu Arg Phe His
 65 70 75 80
 Val Thr Pro Asp Ser Leu Arg Asn Thr Met Met Glu Glu Ala Leu Lys
 85 90 95
 Ser Gly Gln Gln His Asn Ala Leu Glu Leu Ala Gln Leu Ala Pro Glu
 100 105 110
 Asp Leu Arg Ser Leu Leu His Pro Phe Met Gly Gly Gln Trp Gln Asn
 115 120 125
 Asp Thr Pro Thr Leu Arg Ile Pro Tyr Tyr Arg Ser Leu Glu Pro Leu
 130 135 140
 Gln Pro Gly Phe Leu Pro Gly Arg Ala Glu Gln His Leu Ala Gly Gln
 145 150 155 160
 Val Phe Ser Gly Leu Thr Arg Phe Asn Gly Asn Ser Ser Glu Pro Thr
 165 170 175
 Gly Asp Leu Ala His His Trp Glu Val Ser Ala Asp Gly Leu Arg Trp
 180 185 190
 His Phe Tyr Ile Arg Ser Thr Leu His Trp His Asn Gly Asp Lys Ile
 195 200 205
 Glu Thr Ala Gln Leu Arg Gln Ser Leu Thr Ala Leu Leu Ser Gln Pro
 210 215 220
 Gly Met Gly Thr Leu Phe Arg Ser Val Leu Arg Ile Glu Thr Thr His
 225 230 235 240
 Pro Gln Cys Leu Thr Phe Ile Leu His Gln Pro Asp Tyr Trp Leu Ala
 245 250 255
 His Arg Leu Ala Thr Tyr Cys Ser Arg Leu Ala His Pro Asp Tyr Pro
 260 265 270
 Val Val Gly Ser Gly Pro Phe Arg Leu Ser Val Phe Glu Pro Glu Leu
 275 280 285

Val Arg Leu Glu Ser His Glu Gln Tyr His Leu Gly His Pro Leu Leu
 290 295 300
 Lys Ala Ile Glu Tyr Trp Ile Thr Pro Gln Leu Phe Asp Tyr Ser Leu
 305 310 315
 Gly Thr Ser Cys Arg His Pro Val Gln Ile Ala Ile Gly Glu Ala Asp
 325 330 335
 Glu Leu Ala Ser Leu Arg Leu Val Ser Asn Ser Thr Ser Leu Gly Phe
 340 345 350
 Cys Tyr Leu Thr Leu Lys Gln Ser Pro Arg Leu Ser Glu Leu Gln Ala
 355 360 365
 Lys Arg Leu Ile Asn Ile Ile His Leu Ser Thr Leu Leu His Thr Leu
 370 375 380
 Pro Leu Asn Glu Gly Leu Ile Thr Pro Thr Glu Glu Leu Leu Pro Gly
 385 390 395
 Trp Ala Ile Pro Gln Trp Pro Asp Leu Thr Asp Val Ala Leu Pro Glu
 405 410 415
 Ala Leu Thr Leu Val Tyr His Leu Pro Val Glu Leu His Thr Met Ala
 420 425 430
 Ser Gln Leu Lys Ala Tyr Leu Thr Arg Gln Gly Cys Glu Leu Thr Val
 435 440 445
 Ile Phe His Asp Ala Lys Thr Trp Asp Gly Cys Gln Gln Leu Ala Asp
 450 455 460
 Ala Asp Ile Met Met Gly Asp Arg Leu Ile Gly Glu Ala Pro Ala Tyr
 465 470 475
 Thr Leu Glu Gln Trp Leu Arg Cys Asp Ala Leu Trp Pro His Leu Leu
 485 490 495
 Ser Ala Pro Ala Phe Ala His Leu Gln Ala Thr Leu Asp Ala Val Gln
 500 505 510
 Ser Gln Ala Asp Glu Arg Asp Arg His Ala Gly Leu Gln Ala Ile Phe
 515 520 525
 Ser Arg Leu Met Glu Thr Ala Val Leu Thr Pro Leu Phe Asn Tyr Gln
 530 535 540
 Tyr Gln Ile Ser Ala Pro Pro Gly Val Asn Gly Ile Arg Leu Asn Thr
 545 550 555
 Arg Gly Trp Phe Asp Phe Thr Glu Ala Tyr Leu Pro Pro Pro Asn Ala
 565 570 575

<210> 8080

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 8080

Ser Met Lys Arg Ala Val Val Val Phe Ser Gly Gly Gln Asp Ser Thr
 1 5 10 15
 Thr Cys Leu Ile Gln Ala Leu His Gln Tyr Asp Glu Val His Cys Val
 20 25 30
 Thr Phe Asp Tyr Gly Gln Arg His Arg Ala Glu Ile Asp Val Ala Arg
 35 40 45
 Glu Leu Ala Leu Lys Leu Gly Ala Arg Ala His Lys Val Leu Asp Val
 50 55 60
 Thr Leu Leu Asn Glu Leu Ala Val Ser Ser Leu Thr Arg Asp Ser Ile
 65 70 75 80
 Pro Val Pro Asp Tyr Glu Pro Asp Ala Ser Gly Ile Pro Asn Thr Phe
 85 90 95
 Val Pro Gly Arg Asn Ile Leu Phe Leu Thr Leu Thr Ala Ile Tyr Ala
 100 105 110
 Tyr Gln Val Lys Ala Glu Ala Val Ile Thr Gly Val Cys Glu Thr Asp
 115 120 125

Phe Ser Gly Tyr Pro Asp Cys Arg Asp Glu Phe Val Lys Ala Leu Asn
 130 135 140
 His Ala Val Asp Leu Gly Met Ala Lys Glu Thr Arg Phe Glu Thr Pro
 145 150 155 160
 Leu Met Trp Leu Asp Lys Ala Glu Thr Trp Ala Leu Ala Asp Tyr Trp
 165 170 175
 Gly Lys Leu Asp Val Val Arg Asn Glu Thr Leu Thr Cys Tyr Asn Gly
 180 185 190
 Ile Lys Gly Asp Gly Cys Gly Gln Cys Ala Ala Cys Asn Leu Arg Ala
 195 200 205
 Asn Gly Leu Asn His Tyr Phe Ala Asp Lys Ala Gly Val Met Ala Ala
 210 215 220
 Met Gln Lys Lys Thr Gly Leu Lys
 225 230

<210> 8081

<211> 369

<212> PRT

<213> Enterobacter cloacae

<400> 8081

Gln Gln Phe Phe Leu Cys Phe Ser Leu Cys Trp Ala Gln Asn Asp Lys
 1 5 10 15
 Arg Ile Thr Thr Met Asn Ser Thr Trp Val Lys His Ala Ile Ser Glu
 20 25 30
 Ile Asn Ala Asp Tyr Gln Arg Ser Ala Asp Thr His Leu Ile Arg Leu
 35 40 45
 Pro Leu Pro Gly Phe Pro Gly Ile Gln Leu Tyr Leu Lys Asp Glu Ser
 50 55 60
 Thr His Pro Thr Gly Ser Leu Lys His Arg Leu Ala Arg Ser Leu Phe
 65 70 75 80
 Leu Tyr Gly Leu Cys Asn Gly Trp Ile Lys Glu Gly Thr Thr Ile Ile
 85 90 95
 Glu Ser Ser Ser Gly Ser Thr Ala Val Ser Glu Ala Tyr Phe Ala Arg
 100 105 110
 Leu Leu Gly Leu Pro Phe Ile Ala Val Met Pro Ser Cys Thr Ala Lys
 115 120 125
 Arg Lys Val Glu Gln Ile Glu Phe Tyr Gly Gly Arg Cys His Phe Val
 130 135 140
 Asp Ser Ala Cys Glu Ile Tyr Ala Ala Ser Glu Met Leu Ala Arg Glu
 145 150 155 160
 Leu Asn Gly His Tyr Met Asp Gln Phe Thr Phe Ala Glu Arg Ala Thr
 165 170 175
 Asp Trp Arg Gly Asn Asn Asn Ile Ala Asp Ser Ile Phe Arg Gln Met
 180 185 190
 Thr His Glu Pro His Pro Leu Pro Ser Tyr Ile Val Met Ser Ala Gly
 195 200 205
 Thr Gly Gly Thr Ser Ala Thr Ile Gly Arg Tyr Ile Arg Cys Gln Gly
 210 215 220
 Tyr Asp Thr Gln Leu Met Val Val Asp Pro Gln Asn Ser Val Phe Leu
 225 230 235 240
 Asp Tyr Trp Gln Ser Arg Asp Ala Ser Leu Arg Ser Pro Val Gly Ser
 245 250 255
 Lys Ile Glu Gly Ile Gly Arg Pro Arg Val Glu Pro Ser Phe Ile Pro
 260 265 270
 Asp Val Val Asp Glu Met Leu Arg Val Pro Asp Ala Ala Ser Val Ala
 275 280 285
 Thr Ala His Trp Leu Glu Thr Gln Leu Gly Arg Lys Val Gly Ala Ser
 290 295 300
 Thr Gly Thr Asn Met Trp Gly Ala Leu Gln Leu Ala Ala Arg Met Arg
 305 310 315 320

Glu Glu Gly Arg Thr Gly Ser Val Val Thr Leu Leu Cys Asp Ser Gly
 325 330 335
 Glu Arg Tyr Leu Asp Thr Tyr Tyr Asn Ala Glu Trp Val Gln Ala Asn
 340 345 350
 Ile Gly Asp Val Glu Pro Trp Lys Ala Gln Ile Ser Gln Leu Val Lys
 355 360 365

<210> 8082

<211> 522

<212> PRT

<213> Enterobacter cloacae

<400> 8082

Asn Ser Met Arg Thr Arg His Leu Val Ser Leu Val Thr Gly Val Leu
 1 5 10 15
 Ile Phe Ser Val Leu Val Pro Val Cys Leu Ser Ile Trp Leu Ala His
 20 25 30
 Arg Gln Ala Glu Glu Lys Phe Val Asp Ala Leu Asp Ser Tyr Ala Ser
 35 40 45
 Arg Val Leu Ile Arg Thr Asp Arg Val Val Ala Gln Ala Lys Gln Ala
 50 55 60
 Leu Thr His Leu Gln Thr Phe His Ala Pro Pro Cys Thr Pro Pro His
 65 70 75 80
 Leu Arg Glu Met Arg Arg Val Ala Phe Ser Trp Arg Tyr Ile Gln Glu
 85 90 95
 Val Met Tyr Ile Asp Asn Leu Lys Pro Leu Cys Ser Ser Leu Glu Gln
 100 105 110
 Ser Ser Asp Thr Ala Ile Leu Pro Pro Pro Met Arg Ile Thr Glu Asn
 115 120 125
 Gly Tyr Ser Ala Trp Leu Thr Ser Gln Asn Asp Leu Gly Ile Gln Arg
 130 135 140
 Tyr Met Ala Val Leu Gly Lys Gly His Tyr Leu Val Met Val Asp Pro
 145 150 155 160
 Ala Ser Leu Val Asp Val Val Pro Phe Gly Glu Ile Ser Met Asp Ala
 165 170 175
 Ala Leu Val Gly Ser Ser Thr His His Ile Phe Ala Arg Ser Asn Val
 180 185 190
 Leu Asp Pro Tyr Ile Leu Ser Val Val Lys Glu Gln Gln Asp Val Thr
 195 200 205
 Arg Val Gln Tyr Asn Gly Ser Met Tyr Val Met Lys Pro Val Pro Glu
 210 215 220
 Leu Gly Phe Thr Val Ile Ala Trp Ala Ser Leu Lys Pro Leu Ala Ala
 225 230 235 240
 Ser Trp His Gln Gln Leu Ile Ile Trp Leu Pro Ala Gly Ile Leu Leu
 245 250 255
 Ser Leu Val Ala Ala Leu Ile Val Leu Arg Ile Leu Arg Arg Leu Leu
 260 265 270
 Ser Pro Arg His Arg Leu Ile Asp Ala Ile Asn Asn Arg Glu Ile Glu
 275 280 285
 Val His Tyr Gln Pro Ile Val Ala Leu Cys Ser Gly Lys Leu Val Gly
 290 295 300
 Ala Glu Ala Leu Met Arg Trp Pro Gln Pro Glu Gly Ser Asn Leu Ser
 305 310 315 320
 Pro Asn Leu Phe Val Pro Leu Ala Glu Gln Thr Gly Leu Ile Ser Thr
 325 330 335
 Leu Thr Arg Leu Val Val Asn Glu Val Phe Glu Asp Leu Gly Ala Trp
 340 345 350
 Leu His His His Pro Glu Leu His Ile Ser Val Asn Leu Ala Pro Ser
 355 360 365

Asp Leu Thr Ser Pro Glu Leu Pro Arg Gln Leu Ser Gln Leu Leu Asn
 370 375 380
 Lys Trp Gly Val His Pro Arg Gln Ile Ala Leu Glu Leu Thr Glu Arg
 385 390 395 400
 Gly Phe Ala Asp Pro Ala Val Ser Val Pro Ala Ile Ala Ala Phe Arg
 405 410 415
 Arg Ala Gly His Ala Ile Tyr Ile Asp Asp Phe Gly Thr Gly Tyr Ser
 420 425 430
 Ser Leu Ser Tyr Leu Gln Asp Leu Asp Val Asp Thr Leu Lys Ile Asp
 435 440 445
 Lys Ser Phe Val Asp Ala Leu Glu Tyr Lys His Val Thr Pro His Ile
 450 455 460
 Ile Glu Met Ala Lys Ser Leu Lys Leu Ala Met Val Ala Glu Gly Ile
 465 470 475 480
 Glu Thr Glu Gly Gln Ile Glu Trp Leu His Arg His Gly Val Gln Tyr
 485 490 495
 Gly Gln Gly Trp Tyr Phe Ser Lys Ala Leu Pro Lys Glu Asp Phe Ile
 500 505 510
 Leu Trp Ala Ala His Asn Leu Arg Lys
 515 520

<210> 8083

<211> 513

<212> PRT

<213> Enterobacter cloacae

<400> 8083

Thr Asp Ile Lys Leu Tyr Gln Thr Thr Tyr His Phe Leu Phe Ser Glu
 1 5 10 15
 Val Pro Gly Ser Ile Phe Gly Glu Asn Gly Thr Met Ile Asn Val Gln
 20 25 30
 Phe Ser Asn Ser Gly Leu His Met Ser Ser Arg Arg Phe Gly Ser Gln
 35 40 45
 Ser Leu Val Arg Leu Leu Gly His Trp Gln Gln Ala Ser Ser Arg Thr
 50 55 60
 Pro Leu Trp Arg Gln Leu Ala Asp Ala Leu Arg Leu Leu Ile Leu Asp
 65 70 75 80
 Gly Arg Leu Ala Leu Asn Thr Arg Leu Pro Gly Glu Arg Glu Leu Ala
 85 90 95
 Thr Ala Leu Ser Val Ser Arg Thr Thr Ile Ser Ser Ala Leu Ala His
 100 105 110
 Leu Arg Glu Glu Gly Tyr Leu Glu Ser Arg His Gly Ser Gly Ser Arg
 115 120 125
 Ala Ile Leu Pro Asp Ser Arg Ala Val Pro Thr Leu Ser Thr Ala Ser
 130 135 140
 Ala Ala Leu Asp Leu Ser Thr Ala Ala Leu Asn Ala Gly Pro Glu Ile
 145 150 155 160
 His Gln Ala Tyr Ala His Ala Leu Thr Ala Ile Thr Pro Asn Leu Ala
 165 170 175
 Leu Thr Gly Tyr Asp Gln Leu Gly Leu Pro Ala Leu Arg Glu Ala Ile
 180 185 190
 Ala Ala Arg Tyr Thr Ala Arg Gly Leu Pro Thr Arg Ala Asp Glu Val
 195 200 205
 Met Val Val Asn Gly Ala Val Ser Gly Phe Ala Leu Ile Leu Arg Met
 210 215 220
 Met Thr Gly Pro Gly Asp Arg Val Val Val Asp His Pro Thr Tyr Pro
 225 230 235 240
 Leu Ala Ile Ala Ala Ile Gln Gly Ala Leu Cys Arg Pro Val Gly Val
 245 250 255
 Ser Leu Pro Glu Thr Gly Trp Asp Thr Asp Gly Phe Ala Ala Thr Leu
 260 265 270

Ala Gln Thr Ala Pro Arg Leu Ala Tyr Leu Met Pro Asp Phe His Asn
 275 280
 Pro Thr Gly Arg Cys Met Asp Ala Ala Thr Arg Gln Thr Ile Thr Asp
 290 295 300
 Ile Ala Ala Gln Thr Arg Thr Thr Leu Val Val Asp Glu Thr Met Val
 305 310 315 320
 Asp Leu Trp Phe Asp Ala Pro Pro Pro Pro Leu Ala Ala Phe Asn
 325 330 335
 Pro Glu Ala Ala Val Met Thr Leu Gly Ser Ala Gly Lys Ser Phe Trp
 340 345 350
 Gly Gly Leu Arg Leu Gly Trp Ile Arg Ala Ser Ser Arg Thr Ile Ala
 355 360 365
 Thr Leu Ala Gln Thr Arg Asp Thr Leu Asp Leu Gly Ser Pro Val Leu
 370 375 380
 Glu Gln Leu Ala Thr Leu Trp Leu Ile Glu Asn Ser Glu Thr Phe Leu
 385 390 395 400
 Pro Ala Arg Arg Glu Met Leu Ala Glu Arg Arg Asp Arg Cys Gly Gln
 405 410 415
 Met Leu Arg Glu His Phe Pro Glu Trp Arg Phe Gln Glu Ala Glu Gly
 420 425 430
 Gly Leu Ser Tyr Trp Ile Glu Leu Pro Gly Met Leu Ala Thr Gln Leu
 435 440 445
 Ala Ala Arg Ala Glu Thr Thr Gly Ile Ile Met Gly Thr Gly Thr Arg
 450 455 460
 Phe Gly Leu Ser Gly Ala Phe Asp Arg Tyr Leu Arg Met Pro Phe Ser
 465 470 475 480
 Leu Ser Pro Pro Glu Leu Glu Glu Ala Leu Leu Arg Ile Lys Pro Leu
 485 490 495
 Trp Arg Ala Leu Asn Lys Ser Val Ala Pro Val Lys Arg Ser Leu Val
 500 505 510

<210> 8084

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 8084

Phe Pro Ala Gly Glu Thr Met Asp Glu His Asp Thr Phe Pro Gln Arg
 1 5 10 15
 Val Trp Gln Ile Val Ala Ser Ile Pro Glu Gly Cys Val Thr Tyr
 20 25 30
 Gly Glu Val Ala Arg Leu Ala Gly Ser Pro Arg Ala Ala Arg Gln Val
 35 40 45
 Gly Gly Val Leu Arg Arg Leu Pro Glu Gly Ser Thr Leu Pro Trp His
 50 55 60
 Arg Val Val Asn Arg His Gly Ala Ile Ser Leu Thr Gly Pro Asp Leu
 65 70 75 80
 Gln Arg Gln Arg Gln Ala Leu Leu Ser Glu Gly Val Gln Val Ser Gly
 85 90 95
 Ala Gly Gln Ile Asp Met Gln Lys Tyr Arg Trp Glu Tyr
 100 105 110

<210> 8085

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 8085

Asp Tyr Ser Thr His Arg Thr Thr Ile Val Ser Ala Leu Tyr Ser Ala

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1           5           10           15
Tyr Leu Ser Pro Arg Arg Leu Leu Arg Thr Thr Met Ser Gln Ala Leu
20          25          30
Asn Asn Leu Leu Thr Leu Leu Asn Leu Glu Lys Ile Glu Gly Leu
35          40          45
Phe Arg Gly Gln Ser Glu Asp Leu Gly Leu Arg Gln Val Phe Gly Gly
50          55          60
Gln Val Val Gly Gln Ala Leu Tyr Ala Ala Lys Glu Thr Val Pro Ala
65          70          75
Asp Arg Leu Val His Ser Phe His Ser Tyr Phe Leu Arg Pro Gly Asp
85          90          95
Ser Ala Lys Pro Ile Val Tyr Asp Val Glu Val Leu Arg Asp Gly Gln
100         105         110
Ser Phe Ser Ala Arg Arg Val Ala Ala Ile Gln His Gly Lys Pro Ile
115         120         125
Phe Tyr Met Thr Ala Ser Phe Gln Ala Pro Glu Pro Gly Tyr Glu His
130         135         140
Gln Lys Lys Met Pro Pro Ala Pro Ser Pro Asp Asp Leu Lys Ser Glu
145         150         155
Thr Glu Ile Ala Arg Ala Leu Ala His Leu Leu Pro Pro Gln Val Lys
165         170         175
Glu Lys Phe Leu Cys Asp Lys Pro Leu Glu Ile Arg Pro Val Glu Phe
180         185         190
His Asn Pro Met Lys Gly His Thr Ala Glu Pro Ala Arg Gln Val Trp
195         200         205
Ile Arg Ala Asn Gly Ser Val Pro Ala Asp Leu Arg Val His Gln Tyr
210         215         220
Leu Leu Gly Tyr Ala Ser Asp Phe Asn Phe Leu Pro Val Ala Leu Gln
225         230         235
Pro His Gly Val Gly Phe Leu Glu Lys Gly Met Gln Val Ala Thr Ile
245         250         255
Asp His Ser Met Trp Phe His Arg Pro Phe Asp Met Asn Glu Trp Leu
260         265         270
Leu Tyr Ser Val Glu Ser Thr Ser Ala Ser Ser Ala Arg Gly Phe Val
275         280         285
Arg Gly Glu Phe Tyr Thr Gln Asp Gly Val Leu Val Ala Ser Thr Val
290         295         300
Gln Glu Gly Val Met Arg Asn Arg Gly
305         310

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<210> 8086

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 8086

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Arg Cys Asn Arg Val Ile Thr Cys Thr Ala Ala Lys Ile Cys Gln Asp
1           5           10           15
Lys Glu Val Ile Pro Val Met Thr Ser Glu Pro Ile Thr Thr Lys Gly
20          25          30
Tyr Cys Ala Met Gln Thr Gln Ile Lys Val Arg Gly Tyr His Leu Asp
35          40          45
Val Tyr Gln His Val Asn Asn Ala Arg Tyr Leu Glu Phe Leu Glu Glu
50          55          60
Ala Arg Trp Asp Gly Leu Glu Asn Ser Glu Ser Phe Leu Trp Leu Thr
65          70          75
Ala His Asn Ile Ala Phe Val Val Val Asn Ile Asn Ile Asn Tyr Arg
85          90          95
Arg Pro Ala Val Leu Gly Asp Val Leu Thr Val Thr Ser Glu Val Gln
100         105         110
Gln Leu Asn Gly Lys Ser Gly Val Leu Ser Gln Val Val Thr Leu Glu

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      115              120              125
Pro Glu Gly Gln Ile Val Ala Asp Ala Leu Ile Thr Phe Val Cys Ile
  130              135              140
Asp Leu Lys Thr Gln Lys Ala Leu Pro Leu Glu Gly Glu Leu Arg Glu
  145              150              155              160
Lys Leu Glu Leu Met Ile Ala
              165

```

<210> 8087

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 8087

```

Ile Thr Gly Lys Ile Ile Lys Arg Ile Asn Ser Met Ser Lys Ser Glu
  1              5              10              15
Arg Lys Phe Ser Ser Thr Val Ser His Asp Glu Ala Val Val Lys Met
      20              25              30
Leu Arg Glu Asn Pro Ser Tyr Ala Gln Leu Tyr Leu Gln Ile Ala Leu
  35              40              45
Asp Glu Ile Tyr Glu Asp Gln Gly Ile Pro Ala Tyr Leu Ile Ala Leu
  50              55              60
Arg Arg Val Ile Glu Ala Arg Gly Gly Ile Gly Glu Ile Ser Ala Lys
  65              70              75              80
Ala Gly Leu Ser Arg Gln Gln Leu Tyr Arg Thr Leu Ser Glu Asn Gly
      85              90              95
Asn Pro Thr Leu Thr Thr Leu Met Lys Ile Thr Arg Ala Ala Gly Val
  100              105              110
Lys Leu Phe Asp Ser Thr Val Arg
  115              120

```

<210> 8088

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 8088

```

Ser Ala Phe Ile Ser Leu Met Ala Cys Leu Thr Gln Val Leu Phe Ile
  1              5              10              15
Val Val Ile Arg Leu Ser Phe Cys Ala Gln His Ser Glu Lys His Arg
      20              25              30
Lys Asn Cys Cys Tyr Leu Thr Phe Lys Ile Glu Cys Lys Glu Asn Asn
  35              40              45
Phe Leu Phe Glu Val Ala Met Leu Asp Lys Ile Asp Arg Lys Leu Leu
  50              55              60
Ser Leu Leu Gln Ser Asp Cys Thr Leu Ser Leu Gln Ala Leu Ala Asp
  65              70              75              80
Ala Val Asn Leu Thr Thr Thr Pro Cys Trp Lys Arg Leu Lys Lys Leu
      85              90              95
Glu Asp Asp Gly Ile Leu Leu Gly Arg Val Ala Leu Leu Asp Pro Glu
  100              105              110
Lys Leu Gly Leu Gly Leu Thr Ala Phe Val Leu Ile Lys Thr Gln His
  115              120              125
His Ser Ser Glu Trp Tyr Cys Arg Phe Val Thr Gln Val Ser Asp Met
  130              135              140
Pro Glu Val Leu Gly Phe Trp Arg Met Ala Gly Glu Tyr Asp Tyr Leu
  145              150              155              160
Met Arg Val Gln Val Ala Asp Met Lys Arg Tyr Asp Asp Phe Tyr Lys
      165              170              175
Arg Leu Val Asn Ser Val Pro Gly Leu Ser Asp Val Thr Ser Ser Phe
  180              185              190

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Ala Met Glu Gln Ile Lys Tyr Thr Thr Ala Leu Pro Ile Glu
195 200 205

<210> 8089

<211> 595

<212> PRT

<213> Enterobacter cloacae

<400> 8089

Leu Leu Lys Ile Pro Ser Gly Lys Asp Arg Val Arg Leu Phe Ala Gln
1 5 10 15
Leu Ser Trp Tyr Phe Arg Arg Glu Trp Gln Arg Tyr Leu Gly Ala Val
20 25 30
Ala Leu Leu Ile Ile Ala Ile Leu Gln Leu Phe Pro Lys Val
35 40 45
Val Gly Tyr Val Val Asp Gly Val Thr Glu Gln His Tyr Thr Ala Ala
50 55 60
Arg Val Met Met Trp Val Gly Thr Leu Val Leu Thr Ala Val Val Val
65 70 75 80
Tyr Leu Leu Arg Tyr Val Trp Arg Val Leu Phe Gly Ala Ser Tyr
85 90 95
Gln Leu Ala Val Glu Leu Arg Glu Asp Phe Tyr Arg Gln Leu Ser Arg
100 105 110
Gln His Pro Glu Phe Tyr Leu Arg His Arg Thr Gly Asp Leu Ile Ala
115 120 125
Arg Ala Thr Asn Asp Val Asp Arg Val Val Phe Ala Ala Gly Glu Gly
130 135 140
Val Leu Thr Leu Val Asp Ser Leu Val Met Gly Cys Ala Val Leu Ile
145 150 155 160
Val Met Ser Thr Gln Ile Ser Trp Glu Leu Thr Leu Leu Ala Leu Leu
165 170 175
Pro Met Pro Leu Met Ala Leu Ala Ile Asn Arg Tyr Gly Glu Gln Leu
180 185 190
His Glu Arg Phe Lys Leu Ala Gln Ala Ala Phe Ser Ser Leu Asn Asp
195 200 205
Arg Thr Gln Glu Ser Met Thr Ser Ile Arg Met Ile Lys Ala Phe Gly
210 215 220
Leu Glu Asp Arg Gln Ser Ala Leu Phe Ala Ala Asp Ala Asp Thr
225 230 235 240
Gly Ala Lys Asn Met Arg Val Ala Arg Ile Asp Ala Arg Phe Asp Pro
245 250 255
Thr Ile Tyr Ile Ala Ile Gly Met Ala Asn Leu Leu Ala Val Gly Gly
260 265 270
Gly Ser Trp Met Val Val Arg Gly Thr Met Thr Leu Gly Gln Leu Thr
275 280 285
Ser Phe Ala Met Tyr Leu Gly Leu Met Ile Trp Pro Met Leu Ala Leu
290 295 300
Ala Trp Met Phe Asn Ile Val Glu Arg Gly Ser Ala Ala Tyr Ser Arg
305 310 315 320
Ile Arg Ala Met Leu Ala Glu Val Pro Val Val Asn Asp Gly Ser Glu
325 330 335
Pro Val Pro Glu Gly Pro Gly Ile Leu Lys Ala Asp Ile Arg Ala Phe
340 345 350
Ile Tyr Pro Gln Thr Glu His Pro Val Leu Glu Asn Val Ser Phe Thr
355 360 365
Leu Arg Pro Gly Gln Met Leu Gly Ile Cys Gly Pro Thr Gly Ser Gly
370 375 380
Lys Ser Thr Ile Leu Ser Leu Ile Gln Arg His Phe Asp Val Ser Glu
385 390 395 400
Gly Asp Ile Arg Phe His Asp Ile Pro Leu Pro Arg Leu Leu Leu Asp
405 410 415

Asp Trp Arg Ser Arg Leu Ala Val Val Ser Gln Thr Pro Phe Leu Phe
 420 425
 Ser Asp Thr Ile Ala Asn Asn Ile Ala Leu Gly Cys Pro Thr Ala Thr
 435 440 445
 Gln Asp Gln Ile Glu His Val Ala Arg Leu Ala Ser Val His Glu Asp
 450 455 460
 Ile Leu Arg Leu Pro Gln Gly Tyr Asp Thr Glu Val Gly Glu Arg Gly
 465 470 475 480
 Val Met Leu Ser Gly Gly Gln Lys Gln Arg Ile Ser Ile Ala Arg Ala
 485 490 495
 Leu Leu Leu Asp Ala Glu Ile Leu Ile Leu Asp Asp Ala Leu Ser Ala
 500 505 510
 Val Asp Gly Arg Thr Glu His Gln Ile Leu His Asn Leu Arg Gln Trp
 515 520 525
 Gly Glu Gly Arg Thr Val Ile Ile Ser Ala His Arg Leu Ser Ala Leu
 530 535 540
 Thr Glu Ala Ser Glu Ile Leu Val Leu Gln His Gly His Ile Ala Gln
 545 550 555 560
 Arg Gly Gln His Glu Gln Leu Ala Gly Gln Thr Gly Trp Tyr Arg Asp
 565 570 575
 Met Tyr Arg Tyr Gln Gln Leu Glu Ala Ala Leu Asp Glu Glu Val Ala
 580 585 590
 Asp Ala
 595

<210> 8090

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 8090

Asn Asp Ile Gly Trp Asp Arg Ser Arg Arg Cys Ile Asp Asp Lys Glu
 1 5 10 15
 Thr Ser Met Lys Leu Val Pro Met Leu Ser Gly Val Ala Met Ala Val
 20 25 30
 Ala Leu Ser Ala Cys Ala Asp Lys Ser Ala Asp Val Ala Val Pro Thr
 35 40 45
 Ala Thr Pro Asn Gly Ile Asn Thr Leu Ser Gln Gln Ala Ile Arg Gln
 50 55 60
 Pro Asn Val Ser Gly Thr Ile Trp Ile Lys Gln Lys Val Ala Leu Pro
 65 70 75 80
 Pro Asp Ala Val Leu Thr Val Thr Leu Ser Asp Ala Ser Leu Ala Asp
 85 90 95
 Ala Pro Ser Lys Val Leu Ala Gln Arg Ala Val Arg Thr Glu Gly Lys
 100 105 110
 Gln Ala Pro Phe Ser Phe Val Leu Pro Tyr Asn Pro Ser Asp Val Gln
 115 120 125
 Pro Asn Ala Arg Ile Leu Leu Ser Ala Ala Val Thr Ile Asn Asp Lys
 130 135 140
 Leu Val Phe Ile Thr Asp Thr Val Gln Glu Ala Val Asn Lys Gly Gly
 145 150 155 160
 Thr Lys Ile Asp Leu Thr Leu Val Pro Val Gln Gln Thr Glu Val Pro
 165 170 175
 Val Ala Thr Gln Thr Asn Gln Pro Thr Leu Pro Thr Pro Thr Gln
 180 185 190
 Met

<210> 8091

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 8091

Trp Arg Asn Cys Val Arg Ile Glu Thr Ser Leu Phe Thr Thr Pro Glu
 1 5 10 15
 Cys Met Lys Ala Ile Thr Leu Tyr Asp Val Ala Arg Val Ala Gly Val
 20 25 30
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45
 Lys Lys Lys Lys Lys Lys Val Arg Gln Ala Met Ala Ala Leu His Tyr
 50 55 60
 Val Pro Asn Arg Gly Ala Gln Gln Leu Ala Gly Lys Arg Thr Arg Thr
 65 70 75 80
 Leu Gly Leu Met Thr Ser Asp Leu Ala Leu His Ala Pro Ser Gln Ile
 85 90 95
 Ala Ser Ala Val Lys Ser Arg Ala Val Glu Gln Gly Ala Ser Val Leu
 100 105 110
 Ile Ser Met Val Glu Gln Pro Ala Gln Cys Gln Ala Ala Leu Gln Glu
 115 120 125
 Leu Leu Ala Gln Arg Val Glu Ala Leu Leu Val Asn Val Pro Leu Glu
 130 135 140
 Asp Ala Leu Ala Glu Met Leu Gln Glu Met Ala Ser Pro Thr Pro Val
 145 150 155 160
 Leu Phe Leu Asp Val Ser Pro Thr Ala Arg Val Asn Ser Leu Val Phe
 165 170 175
 Asn Ala Glu Gln Gly Ala Ala Leu Gly Ala Glu His Leu Ser Leu
 180 185 190
 Gly His Gln Arg Ile Ala Leu Leu Ala Gly Pro Glu Ser Ser Val Ser
 195 200 205
 Ala Arg Ala Arg Leu Ala Gly Trp Lys Thr Thr Leu Ala Gln Ala Gly
 210 215 220
 Val Glu Ala Phe Ala Val Ala Gln Gly Asp Trp Ser Ala Ala Ser Gly
 225 230 235 240
 Tyr Glu Lys Gly His Gln Leu Leu Ala Gly Ala Gln Leu Pro Glu Ala
 245 250 255
 Ile Phe Val Ala Asn Asp Gln Met Ala Leu Gly Val Ile Arg Ala Cys
 260 265 270
 Ala Glu Lys Gly Val Ala Val Pro Gly Gln Ile Ser Val Val Gly Phe
 275 280 285
 Asp Asp Thr Ala Asp Ser Ala Trp Phe Ser Pro Pro Leu Thr Thr Val
 290 295 300
 Arg Gln Ala Phe Arg Glu Ala Gly Glu Arg Ser Val Glu Trp Leu Met
 305 310 315 320
 Ala Pro Ala His His Asp Glu Cys Trp Gln Glu Leu Pro Val Thr
 325 330 335
 Leu Ile Val Arg His Ser Thr Ala Pro Arg Ala Ala Gln Gln Ala Asp
 340 345 350
 Arg Glu Asp Leu Ala Gln Gln Leu Arg Thr Leu Ala Leu Leu Ala Glu
 355 360 365
 Lys Leu Ala Arg Ser
 370

<210> 8092

<211> 678

<212> PRT

<213> Enterobacter cloacae

<400> 8092

Cys Ala Phe Phe Val Cys Pro Asp Leu Ile Cys Ala Ser Leu Cys Glu
 1 5 10 15
 Leu Trp Ala Asp Asn Cys Pro Val Phe Leu Ser Gln Tyr Ala Phe Thr

Arg	Asp	Gly	Gln	Asp	Phe	Pro	Ser	25	Ala	Ser	Gly	Asn	30	Gln	Ser	Pro	Thr
Ala	Glu	Cys	Cys	Tyr	Thr	Met	Met	40	Asp	Ser	Leu	Arg	45	Thr	Ala	Ala	Asn
Ser	Leu	Val	Leu	Lys	Ile	Ile	Phe	Gly	Ile	Ile	Ile	Val	60	Ser	Phe	Ile	80
Leu	Thr	Gly	Val	Ser	Ser	Tyr	Leu	Ile	Gly	Gly	Gly	Ala	Asn	Tyr	Ala	95	100
Ala	Lys	Val	Asn	Gly	Gln	Glu	Ile	Ser	Arg	Gly	Gln	Phe	Glu	Asn	Ala	110	115
Phe	Ala	Gly	Glu	Arg	Asn	Arg	Met	Gln	Gln	Gln	Leu	Gly	Asp	Gln	Tyr	120	125
Ser	Glu	Leu	Ala	Ala	Asn	Glu	Gly	Tyr	Met	Lys	Asn	Leu	Arg	Gln	Gln	130	135
Thr	Leu	Asn	Arg	Leu	Ile	Asp	Glu	Ala	Leu	Leu	Asp	Gln	Tyr	Ala	Lys	140	145
Ser	Leu	Gly	Leu	Gly	Ile	Ser	Asp	Glu	Gln	Val	Lys	Lys	Ala	Ile	Phe	150	155
Ser	Thr	Gln	Ala	Phe	Gln	Ser	Asn	Gly	Lys	Phe	Asp	Asn	Ala	Arg	Tyr	160	165
Asn	Ser	Ile	Val	Asn	Gln	Met	Gly	Met	Thr	Ala	Asp	Gln	Tyr	Ala	Gln	170	175
Ala	Leu	Arg	Asn	Gln	Leu	Thr	Thr	Gln	Gln	Leu	Ile	Asn	Ala	Val	Val	180	185
Gly	Thr	Asp	Phe	Met	Leu	Lys	Gly	Glu	Thr	Glu	Lys	Leu	Ala	Ala	Leu	190	195
Val	Ala	Gln	Gln	Arg	Val	Val	Arg	Glu	Ala	Thr	Ile	Asp	Val	Asn	Ala	200	205
Leu	Ala	Ala	Lys	Gln	Gln	Val	Ser	Asp	Ala	Glu	Val	Asn	Ala	Tyr	Tyr	210	215
Glu	Gln	Asn	Lys	Asn	Asn	Phe	Ile	Ser	Pro	Glu	Gln	Phe	Arg	Val	Ser	220	225
Tyr	Ile	Lys	Leu	Asp	Ala	Ala	Ala	Met	Gln	Glu	Asn	Ala	Thr	Asp	Ala	230	235
Glu	Ile	Gln	Ser	Tyr	Tyr	Asp	Gln	His	Gln	Asp	Gln	Phe	Thr	Gln	Pro	240	245
Gln	Arg	Asn	Arg	Tyr	Ser	Val	Ile	Gln	Thr	Lys	Thr	Glu	Ala	Glu	Ala	250	255
Lys	Ala	Val	Leu	Asp	Glu	Leu	Asn	Lys	Gly	Ala	Asp	Phe	Ala	Thr	Leu	260	265
Ala	Lys	Ala	Lys	Ser	Thr	Asp	Ile	Ile	Ser	Ala	Lys	Asn	Gly	Gly	Asp	270	275
Met	Gly	Trp	Leu	Glu	Glu	Ser	Thr	Thr	Pro	Asp	Glu	Leu	Lys	Asn	Ala	280	285
Gly	Leu	Lys	Glu	Lys	Gly	Gln	Leu	Ser	Gly	Val	Ile	Lys	Ser	Ser	Val	290	295
Gly	Phe	Leu	Val	Ala	Arg	Leu	Asp	Asp	Val	Val	Ala	Ala	Lys	Thr	Lys	300	305
Pro	Leu	Thr	Asp	Val	Arg	Asp	Asp	Ile	Ala	Ala	Lys	Val	Lys	Gln	Glu	310	315
Lys	Ala	Leu	Asp	Ala	Phe	Tyr	Ala	Leu	Gln	Gln	Lys	Val	Ser	Asp	Ala	320	325
Ala	Ser	Asn	Asp	Asn	Glu	Ser	Leu	Ala	Gly	Ala	Glu	Gln	Ala	Ala	Gly	330	335
Val	Lys	Ala	Val	Glu	Thr	Gly	Trp	Phe	Ser	His	Glu	Asn	Leu	Pro	Glu	340	345
Glu	Leu	Asn	Phe	Lys	Pro	Val	Ser	Ser	Ala	Ile	Phe	Asn	Gly	Gly	Leu	350	355
Val	Gly	Glu	Asn	Gly	Thr	Pro	Gly	Ser	Asn	Ser	Asp	Ile	Ile	Thr	Val	360	365

Asp Gly Asp Arg Ala Phe Val Leu Arg Val Ser Glu His Lys Ala Glu
 515 520
 Ala Val Lys Pro Leu Ala Glu Val Lys Asp Gln Val Val Ala Leu Val
 530 535 540
 Lys His Asn Lys Ala Ala Gln Gln Ala Lys Leu Asp Ala Glu Lys Ile
 545 550 555 560
 Leu Ala Asp Leu Lys Ala Gly Lys Asn Asp Ala Leu Lys Ala Ala Gly
 565 570 575
 Leu Ser Phe Gly Glu Ala Lys Thr Leu Ser Arg Thr Gly Gln Asp Pro
 580 585 590
 Val Ser Gln Ala Ala Phe Gly Leu Ser Leu Pro Ala Lys Asp Lys Pro
 595 600 605
 Val Phe Gly Thr Thr Thr Asp Met Gln Gly Asn Val Val Val Leu Ala
 610 615 620
 Leu Asp Glu Val Lys Ala Gly Thr Leu Pro Asp Ala Gln Lys Lys Ala
 625 630 635 640
 Met Val Gln Gly Ile Thr Gln Asn Asn Ala Gln Ile Ala Phe Glu Ala
 645 650 655
 Leu Met Ser Asn Leu Arg Lys Glu Ala Lys Ile Lys Leu Gly Asp Val
 660 665 670
 Val Thr Gln Glu Gln
 675

<210> 8093

<211> 682

<212> PRT

<213> Enterobacter cloacae

<400> 8093

Phe Trp Met Met Arg Cys Pro Arg Leu Thr Gly Val Leu Asn Ile Lys
 1 5 10 15
 Phe Cys Ile Thr Phe Ala Ser Gly Glu Arg Gly Ala Arg Ser Ser Leu
 20 25 30
 Ala Arg Thr Val Cys Arg Arg Leu Pro Lys Pro Val Lys Phe Trp Cys
 35 40 45
 Phe Ser Thr Gly Ile Leu Pro Ser Val Val Ser Met Ser Ser Pro
 50 55 60
 Gly Arg Pro Ala Gly Ile Gly Ile Cys Thr Ala Ile Asn Ser Leu Lys
 65 70 75 80
 Pro Arg Trp Met Arg Arg Trp Pro Met Arg Lys Phe Gly Gln Met Trp
 85 90 95
 Pro Thr Leu Lys Arg Leu Leu Ala Tyr Gly Ser Pro Trp Arg Lys Pro
 100 105 110
 Leu Ser Ile Ala Val Leu Leu Leu Trp Ile Ala Ala Ile Ala Glu Val
 115 120 125
 Thr Gly Pro Leu Leu Ile Ser Tyr Phe Ile Asp Asn Met Val Ala Lys
 130 135 140
 Ser Tyr Leu Pro Leu Gly Leu Val Ala Gly Leu Gly Val Ala Tyr Val
 145 150 155 160
 Gly Leu Gln Leu Thr Ala Ala Gly Leu His Tyr Ala Gln Ser Leu Leu
 165 170 175
 Phe Asn Arg Ala Ala Val Gly Val Val Gln Gln Leu Arg Thr Asp Val
 180 185 190
 Met Asp Ala Ala Leu Arg Gln Pro Leu Ser Glu Phe Asn Thr Gln Pro
 195 200 205
 Val Gly Gln Val Ile Ser Arg Val Thr Asn Asp Thr Glu Val Ile Arg
 210 215 220
 Asp Leu Tyr Val Thr Val Val Ala Thr Val Leu Arg Ser Ala Ala Leu
 225 230 235 240
 Ile Gly Ala Met Leu Val Ala Met Phe Ser Leu Asp Trp Arg Met Ala
 245 250 255

Leu Val Ala Ile Thr Ile Phe Pro Ala Val Leu Ile Val Met Val Ile
 260 265 270
 Tyr Gln Arg Tyr Ser Thr Pro Ile Val Arg Arg Val Arg Ala Tyr Leu
 275 280 285
 Ala Asp Ile Asn Asp Gly Phe Asn Glu Val Ile Asn Gly Met Ser Val
 290 295 300
 Ile Gln Gln Phe Arg Gln Gln Ala Arg Phe Gly Glu Arg Met Gly Glu
 305 310 315 320
 Ala Ser Arg Ser His Tyr Met Ala Arg Met Gln Thr Leu Arg Leu Asp
 325 330 335
 Gly Phe Leu Leu Arg Pro Leu Leu Ser Leu Phe Ser Ala Leu Val Leu
 340 345 350
 Cys Gly Leu Leu Met Leu Phe Gly Leu Thr Thr Arg Gly Thr Ile Glu
 355 360 365
 Val Gly Val Leu Tyr Ala Phe Ile Ser Tyr Leu Gly Arg Leu Asn Glu
 370 375 380
 Pro Leu Ile Glu Leu Thr Thr Gln Gln Ser Met Leu Gln Gln Ala Val
 385 390 395 400
 Val Ala Gly Glu Arg Val Phe Glu Leu Met Asp Arg Pro Arg Gln Thr
 405 410 415
 Tyr Gly Asp Asp Glu Arg Pro Leu Glu Ser Gly Ser Ile Ala Phe Asp
 420 425 430
 His Val Ser Phe Ala Tyr Arg Asp Asp Gln Leu Val Leu Gln Asp Ile
 435 440 445
 Asn Leu Glu Val Pro Ser Arg Gly Phe Val Ala Leu Val Gly His Thr
 450 455 460
 Gly Ser Gly Lys Ser Thr Leu Ala Ser Leu Leu Met Gly Tyr Tyr Pro
 465 470 475 480
 Leu Thr Gln Gly Glu Ile Arg Leu Asp Gly Arg Pro Leu Ala Ser Leu
 485 490 495
 Ser His Asn Ala Leu Arg Lys Gly Val Ala Met Val Gln Gln Asp Pro
 500 505 510
 Val Val Leu Ala Asp Thr Phe Tyr Ala Asn Val Thr Leu Gly Arg Pro
 515 520 525
 Phe Thr Pro Glu Gln Val Trp Glu Val Leu Glu Thr Val Gln Leu Ala
 530 535 540
 Asp Leu Ala Arg Gly Leu Ser Glu Gly Ile Asn Thr Arg Leu Gly Glu
 545 550 555 560
 Gln Gly Asn Asn Leu Ser Val Gly Gln Lys Gln Leu Leu Ala Leu Ala
 565 570 575
 Arg Val Leu Ile Glu Thr Pro Gln Val Leu Ile Leu Asp Glu Ala Thr
 580 585 590
 Ala Ser Ile Asp Ser Gly Thr Glu Gln Ala Ile Gln Gln Ala Leu Ala
 595 600 605
 Ala Val Arg Asp His Thr Thr Leu Val Val Ile Ala His Arg Leu Ser
 610 615 620
 Thr Ile Val Asp Ala Asp Thr Ile Leu Val Leu His Arg Gly Gln Ala
 625 630 635 640
 Val Glu Arg Gly Thr His Arg Ala Leu Leu Glu Ala Lys Gly Arg Tyr
 645 650 655
 Trp Gln Met Tyr Gln Leu Gln Leu Ala Gly Asp Glu Leu Ala Ala Ser
 660 665 670
 Val Arg Glu Glu Glu Ser Leu Ser Ala
 675 680

<210> 8094

<211> 446

<212> PRT

<213> Enterobacter cloacae

<400> 8094

Arg Ser Gly Val Val Ser Asn Ser Trp His Thr Val Ile Gly Ile Glu
 1 5 10 15
 Lys Met Lys Lys Ala Thr Met Lys Thr Gly Leu Gly Ser Leu Ala Leu
 20 25 30
 Leu Pro Gly Leu Ala Met Ala Ala Pro Ala Val Ala Asp Lys Ala Asp
 35 40 45
 Asn Ala Phe Met Met Ile Cys Thr Ala Leu Val Leu Phe Met Thr Ile
 50 55 60
 Pro Gly Ile Ala Leu Phe Tyr Gly Gly Leu Ile Arg Gly Lys Asn Val
 65 70 75 80
 Leu Ser Met Leu Thr Gln Val Ala Val Thr Phe Ala Leu Val Cys Val
 85 90 95
 Leu Trp Val Val Tyr Gly Tyr Ser Leu Ala Phe Gly Glu Gly Asn Ala
 100 105 110
 Phe Phe Gly Asn Val Asn Trp Ala Met Leu Lys Asn Ile Glu Leu Thr
 115 120 125
 Ala Val Met Gly Ser Phe Tyr Gln Tyr Ile His Val Ala Phe Gln Gly
 130 135 140
 Ser Phe Ala Cys Ile Thr Val Gly Leu Ile Val Gly Ala Leu Ala Glu
 145 150 155 160
 Arg Ile Arg Phe Ser Ala Val Leu Ile Phe Val Val Val Trp Leu Thr
 165 170 175
 Leu Ser Tyr Ile Pro Ile Ala His Met Val Trp Gly Gly Gly Leu Leu
 180 185 190
 Ala Ser His Gly Ala Leu Asp Phe Ala Gly Gly Thr Val Val His Ile
 195 200 205
 Asn Ala Ala Val Ala Gly Leu Val Gly Ala Tyr Leu Ile Gly Lys Arg
 210 215 220
 Val Gly Phe Gly Lys Glu Ala Phe Lys Pro His Asn Leu Pro Met Val
 225 230 235 240
 Phe Thr Gly Thr Ala Ile Leu Tyr Phe Gly Trp Phe Gly Phe Asn Ala
 245 250 255
 Gly Ser Ala Ser Ala Ala Asn Glu Ile Ala Ala Leu Ala Phe Val Asn
 260 265 270
 Thr Val Val Ala Thr Ala Gly Ala Ile Leu Ser Trp Val Phe Gly Glu
 275 280 285
 Trp Ala Val Arg Gly Lys Pro Ser Leu Leu Gly Ala Cys Ser Gly Ala
 290 295 300
 Ile Ala Gly Leu Val Gly Ile Thr Pro Ala Cys Gly Tyr Val Gly Val
 305 310 315 320
 Gly Gly Ala Leu Leu Ile Gly Ile Val Ala Gly Leu Ala Gly Leu Trp
 325 330 335
 Gly Val Thr Ala Leu Lys Arg Val Leu Arg Val Asp Asp Pro Cys Asp
 340 345 350
 Val Phe Gly Val His Gly Val Cys Gly Ile Val Gly Cys Ile Met Thr
 355 360 365
 Gly Ile Phe Ala Ala Gln Ser Leu Gly Gly Val Gly Tyr Ala Glu Gly
 370 375 380
 Val Thr Met Gly His Gln Val Leu Val Gln Leu Glu Ser Ile Ala Ile
 385 390 395 400
 Thr Val Val Trp Ser Gly Val Val Ala Phe Ile Gly Tyr Lys Leu Ala
 405 410 415
 Asp Met Thr Val Gly Leu Arg Val Pro Glu Glu Gln Glu Arg Glu Gly
 420 425 430
 Leu Asp Val Asn Ser His Gly Glu Asn Ala Tyr Asn Ala
 435 440 445

<210> 8095

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 8095

Lys Leu Asp Ile Asn His Ser Ala Ile Phe Thr Glu Asp Gly Thr Trp
 1 5 10 15
 Tyr Phe Gly Glu Glu Lys Met Val Arg Arg Leu Val Gln Leu Tyr Val
 20 25 30
 Gly Leu Gly Leu Tyr Gly Leu Ser Thr Ala Met Phe Ile Arg Ser Asp
 35 40 45
 Leu Gly Val Asp Pro Trp Asp Val Phe His Leu Gly Val Ala Ile Gln
 50 55 60
 Thr Gly Met Ser Ile Gly Thr Val Ile Ile Leu Thr Gly Ala Ala Val
 65 70 75 80
 Leu Leu Leu Trp Ile Pro Leu Arg Gln Leu Pro Gly Leu Gly Thr Ile
 85 90 95
 Ser Asn Val Ile Cys Ile Gly Leu Ala Ala Asp Ala Ser Met Ala Leu
 100 105 110
 Ile Pro Glu Leu Thr Ser Leu Pro Val Arg Ile Thr Leu Leu Val Ser
 115 120 125
 Gly Ile Val Val Asn Ala Leu Ala Thr Gly Met Tyr Ile Gly Ala Gly
 130 135 140
 Phe Gly Ala Gly Pro Arg Asp Gly Leu Met Thr Gly Ile His Ala Arg
 145 150 155 160
 Leu Gly Trp Ser Ile Arg Ser Val Arg Thr Ala Ile Glu Val Thr Val
 165 170 175
 Leu Ile Val Gly Tyr Leu Leu Gly Gly Ala Phe Gly Val Gly Thr Val
 180 185 190
 Leu Tyr Ala Leu Thr Ile Gly Pro Leu Ile Gln Leu Cys Leu Pro Trp
 195 200 205
 Phe Arg Gln Arg Pro Arg Ile Gln Lys Ala Ala Gln Pro Glu Arg Ile
 210 215 220
 Val
 225

<210> 8096

<211> 1037

<212> PRT

<213> *Enterobacter cloacae*

<400> 8096

Ala Leu Arg Lys Glu Val Asp Met Ser Ser Thr Leu Pro Leu Thr Leu
 1 5 10 15
 Ser Ala Leu Leu Ala Lys Lys Lys Lys Lys Lys Gly Val Thr Gln
 20 25 30
 Trp Asn Arg Leu Ala Ala His Ala Pro Phe His Ser Trp Arg Asp Glu
 35 40 45
 Thr Phe Ala Arg Glu Asp Lys Pro Ser Arg Ser Lys Arg Leu Leu Asn
 50 55 60
 Gly Ile Trp Arg Phe Ser Phe Phe Pro Ala Pro Glu Gln Val Pro Glu
 65 70 75 80
 Ala Trp Ile Thr Asp Asp Leu Ala Asp Ala Val Glu Met Pro Val Pro
 85 90 95
 Ser Asn Trp Gln Met Gln Gly Phe Asp Thr Pro Ile Tyr Thr Asn Val
 100 105 110
 Thr Tyr Pro Ile Asn Val Asn Pro Pro Tyr Leu Pro Ala Glu Asn Pro
 115 120 125
 Thr Gly Cys Tyr Ser Leu Thr Phe Glu Met Asp Asp Ala Trp Met Cys
 130 135 140
 Ser Gly Gln Thr Arg Ile Ile Phe Asp Gly Val Asn Ser Ala Phe His
 145 150 155 160
 Leu Trp Cys Asn Gly Gln Trp Met Gly Tyr Ser Gln Asp Ser Arg Leu
 165 170 175

Pro Ala Glu Phe Asp Leu Ser Ala Val Leu Arg Pro Gly Gln Asn Arg
 180 185 190
 Leu Ala Val Met Val Leu Arg Trp Cys Asp Gly Ser Tyr Leu Glu Asp
 195 200 205
 Gln Asp Met Trp Arg Met Ser Gly Ile Phe Arg Asp Val Ser Leu Leu
 210 215 220
 His Lys Pro Glu Thr Arg Ile Ala Asp Tyr Gln Ile Val Thr Asp Leu
 225 230 235 240
 Asn Ala Glu Cys Asp Arg Ala Ile Leu Arg Val Asp Val Ala Leu Glu
 245 250 255
 Gly Thr Arg Tyr Ala Glu Cys Glu Val Ala Phe Thr Leu Trp Arg Asn
 260 265 270
 Gly Glu Ala Cys Ala Gln Thr Thr Gln Gln Pro Gly Ser Ala Ile Val
 275 280 285
 Asp Glu Arg Gly Ser Trp Ala Glu Arg Leu Arg Val Ala Ile Pro Val
 290 295 300
 Asn Ala Pro Ala Leu Trp Ser Ala Glu Thr Pro Glu Cys Tyr Arg Leu
 305 310 315 320
 Thr Ile Ser Leu Arg Asp Ala Gln Gly Asn Val Leu Glu Thr Glu Ala
 325 330 335
 Cys Asp Val Gly Phe Arg Arg Val Glu Ile Ser Asn Gly Gln Leu Lys
 340 345 350
 Leu Asn Gly Lys Pro Leu Leu Ile Arg Gly Val Asn Arg His Glu His
 355 360 365
 His Pro Glu Lys Gly Gln Val Met Asp Glu Ala Thr Met Arg Arg Asp
 370 375 380
 Ile Glu Leu Met Lys Gln His Asn Phe Asn Ala Val Arg Cys Ser His
 385 390 395 400
 Tyr Pro Asn His Pro Leu Trp Tyr Thr Leu Cys Asp Arg Tyr Gly Leu
 405 410 415
 Tyr Val Val Asp Glu Ala Asn Ile Glu Thr His Gly Met Val Pro Met
 420 425 430
 Ser Arg Leu Ala Asp Asp Pro Arg Trp Leu Pro Ala Met Ser Glu Arg
 435 440 445
 Val Thr Arg Met Val Gln Arg Asp Arg Asn His Pro Ser Ile Ile Ile
 450 455 460
 Trp Ser Leu Gly Asn Glu Ser Gly His Gly Ala Asn His Asp Ala Leu
 465 470 475 480
 Tyr Arg Trp Leu Lys Thr Thr Asp Pro Thr Arg Pro Val Gln Tyr Glu
 485 490 495
 Gly Gly Gly Ala Ser Thr Ala Ala Thr Asp Ile Val Cys Pro Met Tyr
 500 505 510
 Ala Arg Val Asp Gln Asp Gln Pro Phe Pro Ala Val Pro Lys Trp Ser
 515 520 525
 Ile Lys Lys Trp Ile Gly Met Pro Asp Glu Thr Arg Pro Leu Ile Leu
 530 535 540
 Cys Glu Tyr Ala His Ala Met Gly Asn Ser Phe Gly Gly Phe Ala Ser
 545 550 555 560
 Tyr Trp Gln Ala Phe Arg Ser His Pro Arg Leu Gln Gly Gly Phe Val
 565 570 575
 Trp Asp Trp Val Asp Gln Ala Leu Thr Lys Lys Ala Glu Asp Gly Thr
 580 585 590
 Val Phe Trp Ala Tyr Gly Gly Asp Phe Gly Asp Lys Pro Asn Asp Arg
 595 600 605
 Gln Phe Cys Leu Asn Gly Leu Val Phe Pro Asp Arg Thr Pro His Pro
 610 615 620
 Ala Leu Tyr Glu Ala Gln Arg Ala Gln Gln Phe Phe Thr Phe Thr Leu
 625 630 635 640
 Val Ser Thr Ala Pro Leu Val Val Glu Ile Gln Ser Asp Tyr Leu Phe
 645 650 655
 Arg His Thr Asp Asn Glu Tyr Leu Arg Trp Ser Val Ala Arg Asp Gly

660 665 670
 Ala Val Leu Ala Ser Gly Glu Thr Pro Leu Ser Val Ala Pro Glu Gly
 675 680 685
 Thr Gln His Val Glu Ile Pro Leu Pro Glu Leu Val Ala Glu Pro Gly
 690 695 700
 Glu Val Trp Leu Asn Val Glu Ile Val Gln Pro Gln Ala Thr Ser Trp
 705 710 715 720
 Ser Pro Pro Gly His Arg Cys Ala Trp Asp Gln Trp Pro Leu Pro Ala
 725 730 735
 Pro Leu Tyr Leu Ala Pro Pro Lys Ala Gly Gly Thr Pro Pro Gln Leu
 740 745 750
 Thr Val Glu Asp Glu Ala Leu Asp Ile Thr His Gln Gln Gln Arg Trp
 755 760 765
 Gln Phe Ser Arg Leu Thr Gly Asn Leu Thr Gln Trp Trp Asn Glu Gly
 770 775 780
 Ala Glu Thr Leu Arg Ser Pro Leu Thr Asp Asn Phe Thr Arg Ala Pro
 785 790 795 800
 Leu Asp Asn Asp Ile Gly Val Ser Glu Ala Thr Arg Ile Asp Pro Asn
 805 810 815
 Ala Trp Val Glu Arg Trp Lys Ala Ala Gly Met Tyr Glu Met Ser Ala
 820 825 830
 Arg Leu Leu Gln Cys Glu Ala Glu Gln His Asn Arg Glu Val Ile Val
 835 840 845
 Thr Thr Gln His Val Trp Glu His Gln Gly Lys Ala Leu Phe Met Ser
 850 855 860
 Cys Lys Val Trp Arg Ile Asp Asp His Gly Val Leu Gln Gly Asp Val
 865 870 875 880
 Gln Val Thr Val Ala Ser Asp Ile Pro Glu Pro Ala Arg Val Gly Leu
 885 890 895
 Ser Val Met Leu Ala Asp Ile Pro Glu Trp Val Arg Trp Leu Gly Leu
 900 905 910
 Gly Pro Leu Glu Asn Tyr Pro Asp Arg Lys Leu Ala Ala Gln Gln Gly
 915 920 925
 Arg Trp Ala Leu Pro Leu Glu Glu Met Gln Thr Pro Tyr Ile Phe Pro
 930 935 940
 Thr Glu Asn Gly Leu Arg Cys Asp Thr Arg Glu Leu Thr Phe Gly Ser
 945 950 955 960
 His Gln Leu Gln Gly Gln Phe His Phe Ser Leu Ser Arg Tyr Ser Gln
 965 970 975
 Arg Gln Leu His Glu Thr Thr His Gln His Leu Leu Arg Glu Glu Ala
 980 985 990
 Gly Cys Trp Leu Asn Leu Asp Ala Phe His Met Gly Val Gly Gly Asp
 995 1000 1005
 Asp Ser Trp Ser Pro Ser Val Ala Pro Ala Phe Ile Leu Gln Asn Arg
 1010 1015 1020
 Arg Leu Arg Tyr Thr Phe Ser Trp Gln Gln Asn Gly
 1025 1030 1035

<210> 8097

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 8097

Pro Trp Lys Pro Arg Val Phe Arg Gly Lys Gly Lys Leu Thr Tyr Thr
 1 5 10 15
 Gly Ser Leu Gly Glu Val Met Gln Glu Ser Ile Gln Ala Ala Leu Thr
 20 25 30
 Val Val Arg Ala Arg Ala Glu Lys Leu Gly Ile Asn Pro Asp Phe Tyr
 35 40 45
 Glu Lys Arg Asp Ile His Val His Val Pro Glu Gly Ala Thr Pro Lys

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      50              55              60
Asp Gly Pro Ser Ala Gly Ile Ala Met Cys Thr Ala Leu Val Ser Cys
65              70              75              80
Leu Thr Gly Asn Pro Val Arg Ala Asp Val Ala Met Thr Gly Glu Ile
      85              90              95
Thr Leu Arg Gly Gln Val Leu Pro Ile Gly Gly Leu Lys Glu Lys Leu
      100              105              110
Leu Ala Ala His Arg Gly Gly Ile Lys Thr Val Leu Ile Pro Tyr Glu
      115              120              125
Asn Lys Arg Asp Leu Glu Glu Ile Pro Asp Asn Val Ile Ala Asp Leu
      130              135              140
Gln Ile His Pro Val Lys Arg Ile Glu Glu Val Leu Thr Leu Ala Leu
      145              150              155              160
Gln Asn Glu Pro Ser Gly Met Gln Val Val Thr Ala Lys
      165              170

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<210> 8098

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 8098

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Gly His Ser Arg Thr Asp Ile Thr Ala Ala Arg Ser Arg Cys Glu Gly
1              5              10              15
Phe Arg Cys Asp Ile Asn Tyr Lys Glu Arg Lys Arg Thr Val Asn Lys
      20              25              30
Ser Gln Leu Ile Asp Lys Ile Ala Ala Gly Ala Asp Ile Ser Lys Ala
      35              40              45
Ala Ala Gly Arg Ala Leu Asp Ala Leu Ile Ala Ser Val Thr Glu Ser
      50              55              60
Leu Gln Ala Gly Asp Asp Ile Ser Leu Val Gly Phe Gly Thr Phe Ala
65              70              75              80
Val Lys Glu Arg Ala Ala Arg Thr Gly Arg Asn Pro Gln Thr Gly Lys
      85              90              95
Glu Ile Thr Ile Ala Ala Ala Lys Val Pro Gly Phe Arg Ala Gly Lys
      100              105              110
Ala Leu Lys Asp Ala Val Asn
      115              120

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<210> 8099

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 8099

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Arg Ser Ala Lys Thr Lys Gly Arg Phe Arg Gly Phe Phe His Phe Cys
1              5              10              15
Asn Leu Leu Phe Val Pro Val Phe Pro Cys Gly Tyr Arg Gly Met Ala
      20              25              30
Val Asn Lys Gln Gly Glu Asn Ser Met Lys Cys Gly Ile Lys Ala Leu
      35              40              45
Leu Ile Thr Leu Ala Ile Ala Thr Ser Gly Met Ser Ala Gly Ala Leu
      50              55              60
Ala Ala Ser Pro Ser Ser Lys Ala Gln Ala Ala Gln Thr Gln Ala Asp
65              70              75              80
Ala Thr Ser Gln Gly Gln Val Lys Ala Asn Ala Thr Ala Ser Thr Lys
      85              90              95
Ala Ile Glu Asp Glu Gly Thr Arg Val Ser Ile Asn Thr Ala Ser Ala
      100              105              110
Asp Asp Leu Ala Arg Val Met Asn Gly Val Gly Leu Lys Lys Ala Gln
      115              120              125

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Ala Ile Val Ser Tyr Arg Glu Tyr Gly Pro Phe Ile Thr Leu Asp
 130 135 140
 Asp Leu Lys Gln Val Pro Gly Met Gly Ser Ala Leu Val Glu Arg Asn
 145 150 155 160
 Leu Ala His Leu Thr Leu
 165

<210> 8100

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 8100

Lys Thr Arg Arg Val Phe Arg Asp Lys Ile Met Asn Arg Asp Tyr Val
 1 5 10 15
 Val Lys Arg Tyr Arg Thr Arg Asp Gly Lys Ile Pro Phe Glu Asp Trp
 20 25 30
 Val Ala Lys Leu Arg Arg Lys Asp Pro Glu Leu Ala Phe Arg Ile Leu
 35 40 45
 Leu Arg Ile Asp Arg Ala Glu Lys Gly Asn Phe Gly Asp Tyr Arg Tyr
 50 55 60
 Leu Arg Glu Gly Val Trp Glu Leu Lys Val Asp Ser Gly Pro Gly Tyr
 65 70 75 80
 Arg Val Tyr Phe Ala Val Gln His Arg Glu Ile Leu Leu Leu Ile
 85 90 95
 Gly Gly Asp Lys Lys Ser Gln Lys Ala Asp Val Met Leu Ala Ile Asp
 100 105 110
 Tyr Trp Lys Asp His Gln Lys Asp Lys Leu His Glu Gln Lys
 115 120 125

<210> 8101

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 8101

Pro His His Ile Ser Gly Val Ile Met Ala Arg Leu Ala Ala Phe Asp
 1 5 10 15
 Met Asp Gly Thr Leu Leu Met Pro Asp His Arg Leu Gly Glu Lys Thr
 20 25 30
 Leu Lys Thr Leu Lys Arg Leu Arg Glu Arg Glu Val Thr Leu Thr Phe
 35 40 45
 Ala Thr Gly Arg His Val Leu Glu Met Arg His Leu Leu Gly Thr Phe
 50 55 60
 Ala Leu Asp Ala Phe Leu Ile Thr Gly Asn Gly Thr Arg Ile His Ser
 65 70 75 80
 Val Asp Gly Asp Val Leu His Arg Gln Asp Leu Asn Pro Glu Val Ala
 85 90 95
 Asp Ile Val Leu His Ser Thr Trp Asp Thr Gln Ala Ser Val His Val
 100 105 110
 Phe Asn Asp Glu Gly Trp Phe Thr Gly Arg Glu Ile Pro Ala Leu Leu
 115 120 125
 His Ala His Val Tyr Ser Gly Phe Lys Tyr Gln Leu Ile Asp Leu Arg
 130 135 140
 Arg Ile Pro Ala His Lys Val Thr Lys Ile Cys Phe Cys Gly Asp His
 145 150 155 160
 Asp Asp Leu Cys Arg Leu Arg Ile Gln Leu Asn Glu Ala Leu Gly Glu
 165 170 175
 Arg Ala His Leu Thr Phe Ser Ala Val Asp Cys Leu Glu Val Leu Pro
 180 185 190
 Val Gly Cys Asn Lys Gly Ser Ala Leu Ala Val Leu Ser Asp His Leu

195 200 205
 Gly Leu Thr Met Gln Asp Cys Met Ala Phe Gly Asp Ala Met Asn Asp
 210 215 220
 His Glu Met Leu Ser Asn Val Gly Arg Gly Leu Ile Met Gly Asn Ala
 225 230 235
 Met Pro Gln Leu Ile Ala Ala Leu Pro His Leu Pro Val Ile Gly His
 245 250 255
 Cys Arg Asn Glu Ala Val Ser His Phe Leu Thr His Trp Leu Asp Lys
 260 265 270
 Asn Asn Leu Pro Tyr Ser Pro Glu
 275 280

<210> 8102

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 8102

Leu Arg Pro Leu Pro Asn Ser Asp Trp Arg Gly Tyr Met Lys Leu Val
 1 5 10 15
 Thr Val Val Ile Lys Pro Phe Lys Leu Glu Asp Val Arg Glu Ala Leu
 20 25 30
 Ser Ser Met Gly Ile Gln Gly Leu Thr Val Thr Glu Val Lys Gly Phe
 35 40 45
 Gly Arg Gln Lys Gly His Ala Glu Leu Tyr Arg Gly Ala Glu Tyr Ser
 50 55 60
 Val Asn Phe Leu Pro Lys Val Lys Ile Asp Val Ala Ile Ala Asp Asp
 65 70 75 80
 Gln Leu Asp Glu Val Ile Asp Val Val Ser Lys Ala Ala Tyr Thr Gly
 85 90 95
 Lys Ile Gly Asp Gly Lys Ile Phe Val Ala Glu Leu Gln Arg Val Ile
 100 105 110
 Arg Ile Arg Thr Gly Glu Ser Asp Glu Ala Ala Leu
 115 120 125

<210> 8103

<211> 373

<212> PRT

<213> Enterobacter cloacae

<400> 8103

Asn Ala Arg Ala Leu Phe Met Asn Lys Val Val Leu Tyr Cys Arg Pro
 1 5 10 15
 Gly Phe Glu Lys Glu Cys Ala Ala Glu Ile Thr Asp Lys Ala Ala Lys
 20 25 30
 Arg Glu Val Phe Gly Phe Ala Arg Val Lys Glu Asn Ala Gly Tyr Val
 35 40 45
 Val Phe Glu Cys Tyr Gln Pro Asp Asp Ala Asp Lys Leu Ala Arg Glu
 50 55 60
 Leu Pro Phe Ser Ser Leu Ile Phe Ala Arg Gln Met Phe Val Ala Gly
 65 70 75 80
 Glu Leu Leu Lys Asp Leu Pro Pro Glu Asp Arg Ile Thr Pro Ile Val
 85 90 95
 Gly Leu Leu Gln Gly Val Val Glu Lys Gly Gly Asp Leu Arg Val Glu
 100 105 110
 Val Ala Asp Thr Asn Glu Ser Lys Glu Leu Met Lys Phe Cys Arg Lys
 115 120 125
 Phe Thr Val Pro Leu Arg Ala Ala Leu Arg Asp Ala Gly Val Leu Thr
 130 135 140
 Asn Tyr Glu Thr Pro Lys Arg Pro Val Val His Ile Phe Phe Ile Ala
 145 150 155 160

Pro Gly Cys Cys Tyr Ala Gly Tyr Ser Tyr Thr Thr Asn Asn Ser Pro
 165 170 175
 Phe Phe Met Gly Ile Pro Arg Leu Arg Phe Pro Ala Asp Ala Pro Ser
 180 185 190
 Arg Ser Thr Leu Lys Leu Glu Glu Ala Phe His Val Phe Ile Pro Ala
 195 200 205
 Asp Glu Trp Asp Glu Arg Leu Ala Asn Gly Met Tyr Ala Val Asp Leu
 210 215 220
 Gly Ala Cys Pro Gly Gly Trp Thr Tyr Gln Leu Val Lys Arg Asn Met
 225 230 235 240
 Trp Val Ser Ser Val Asp Asn Gly Pro Met Ala Gln Ser Leu Met Asp
 245 250 255
 Thr Gly Gln Val Thr Trp Leu Arg Glu Asp Gly Phe Arg Tyr Arg Pro
 260 265 270
 Asn Arg Asn Asn Ile Ser Trp Met Val Cys Asp Met Val Glu Lys Pro
 275 280 285
 Ala Lys Val Ala Ala Leu Met Ala Ser Trp Leu Val Asn Gly Trp Cys
 290 295 300
 Arg Glu Thr Ile Phe Asn Leu Lys Leu Pro Met Lys Lys Arg Tyr Glu
 305 310 315 320
 Glu Val Ser Gln Asn Leu Ala Tyr Ile Gln Gln Gln Leu Asp Glu His
 325 330 335
 Gly Ile Asn Ala Glu Ile Gln Ala Arg Gln Leu Tyr His Asp Arg Glu
 340 345 350
 Glu Val Thr Val His Ile Arg Arg Trp Trp Ala Ala Val Gly Gly Arg
 355 360 365
 Arg Asp Glu Arg
 370

<210> 8104

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 8104

Ala Gly Ser Thr Tyr Cys Ser Trp Asn Ala Ala Lys Arg Thr Gly Ser
 1 5 10 15
 Thr Val Phe Thr Val Leu Pro Phe Leu Phe Leu Ser Ser Ala Met Leu
 20 25 30
 Cys Phe Ala Pro Phe Arg Phe Ser Val Glu Val Tyr Met Ser His His
 35 40 45
 Asp Ser Val Arg Ala Gln Leu His Ala Ile Glu Ala Leu Met Arg Gln
 50 55 60
 His Gln Leu Trp Gln Asp Asn Ala Pro Gln Pro Asp Ala Phe Ala Ser
 65 70 75 80
 Thr Gln Pro Phe Cys Leu Asp Thr Leu Asp Pro Phe Glu Trp Leu Gln
 85 90 95
 Trp Val Leu Ile Pro Arg Met His Ala Leu Leu Glu Gly Gly His Ala
 100 105 110
 Leu Pro Ala Ser Phe Ala Val Ser Pro Tyr Tyr Glu Met Ala Leu Glu
 115 120 125
 Ala Thr His Pro Ala Arg Ala Met Met Leu Val Glu Leu Glu Lys Leu
 130 135 140
 Asp Ala Leu Phe Ala Gly Asp Asp Ala
 145 150

<210> 8105

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 8105

His Gln Thr Asn Arg Thr Glu Thr Cys Trp Gly Ala Arg Met Met Thr
 1 5 10 15
 Thr Gln Ser Ser Pro Ile Val Thr Asp Met Lys Val Ile Pro Val Ala
 20 25 30
 Gly Gln Asp Ser Met Leu Leu Asn Ile Gly Gly Ala His Asn Ala Trp
 35 40 45
 Phe Thr Arg Asn Ile Val Val Leu Thr Asp Asn Ala Gly Asn Thr Gly
 50 55 60
 Val Gly Glu Ala Pro Gly Gly Glu Val Ile Tyr Gln Thr Leu Val Asp
 65 70 75 80
 Ala Ile Pro His Val Val Gly Gln Glu Val Ala Arg Leu Asn Lys Val
 85 90 95
 Val Gln Arg Val His Lys Gly Asn His Ser Ala Asp Phe Asp Thr Phe
 100 105 110
 Gly Lys Gly Ala Trp Thr Phe Glu Leu Arg Val Asn Ala Val Ala Ala
 115 120 125
 Leu Glu Ala Ala Leu Leu Asp Leu Leu Gly Lys Ala Leu Asn Val Pro
 130 135 140
 Val Cys Glu Leu Leu Gly Pro Gly Lys Gln Arg Asp Ala Val Thr Val
 145 150 155 160
 Leu Gly Tyr Leu Phe Tyr Val Gly Asp Arg Thr Lys Thr Asp Leu Pro
 165 170 175
 Tyr Leu Glu Arg Ser Pro Gly Ser His Glu Trp Tyr His Leu Arg His
 180 185 190
 Gln Glu Ala Leu Ser Gly Glu Ala Val Val Arg Leu Ala Glu Ala Ala
 195 200 205
 Gln Asp Arg Tyr Gly Phe Lys Asp Phe Lys Leu Lys Gly Gly Val Leu
 210 215 220
 Pro Gly Glu Gln Glu Ile Asp Ser Val Arg Ala Leu Lys Lys Arg Phe
 225 230 235 240
 Pro Glu Ala Arg Ile Thr Val Asp Pro Asn Gly Ala Trp Leu Leu Asp
 245 250 255
 Glu Ala Ile Ala Leu Cys Lys Gly Leu Gly Asp Val Leu Thr Tyr Ala
 260 265 270
 Glu Asp Pro Cys Gly Ala Glu Gln Gly Phe Ser Gly Arg Glu Val Met
 275 280 285
 Ala Glu Phe Arg Arg Ala Thr Gly Leu Pro Val Ala Thr Asn Met Ile
 290 295 300
 Ala Thr Asn Trp Arg Glu Met Gly His Ala Val Met Leu Asn Ala Val
 305 310 315 320
 Asp Ile Pro Leu Ala Asp Pro His Phe Trp Thr Leu Ser Gly Ala Val
 325 330 335
 Arg Val Ala Gln Leu Cys Asp Asp Trp Gly Leu Thr Trp Gly Cys His
 340 345 350
 Ser Asn Asn His Phe Asp Ile Ser Leu Ala Met Phe Thr His Val Gly
 355 360 365
 Ala Ala Ala Pro Gly Asn Pro Thr Ala Ile Asp Thr His Trp Ile Trp
 370 375 380
 Gln Glu Gly Glu Ala Arg Leu Thr Lys Asn Pro Leu Glu Ile Lys Asn
 385 390 395 400
 Gly Thr Ile Ala Val Pro Asp Ala Pro Gly Leu Gly Val Glu Leu Asp
 405 410 415
 Trp Asp Gln Ile His Lys Ala His Glu Ala Tyr Lys Lys Leu Pro Gly
 420 425 430
 Gly Ala Arg Asn Asp Ala Gly Pro Met Gln Tyr Leu Ile Pro Gly Trp
 435 440 445
 Thr Phe Asp Arg Lys Arg Pro Val Phe Gly Arg His
 450 455 460

<210> 8106

<211> 450

<212> PRT

<213> *Enterobacter cloacae*

<400> 8106

Lys Asp Arg Thr Met Ser Thr Phe Ser Thr Pro Val Val Thr Ser Met
 1 5 10 15
 Gln Ile Ile Pro Val Ala Gly His Asp Ser Met Leu Met Asn Leu Ser
 20 25 30
 Gly Ala His Ala Pro Phe Phe Thr Arg Asn Ile Val Val Ile Lys Asp
 35 40 45
 Asn Ser Gly His Thr Gly Val Gly Glu Ile Pro Gly Gly Glu Lys Ile
 50 55 60
 Arg Lys Thr Leu Glu Asp Ala Ile Pro Leu Val Val Gly Lys Thr Leu
 65 70 75 80
 Gly Glu Tyr Lys Asn Val Leu Thr Arg Val Arg Thr Thr Phe Ala Asp
 85 90 95
 Arg Asp Ala Gly Gly Arg Gly Leu Gln Thr Phe Asp Leu Arg Thr Thr
 100 105 110
 Ile His Val Val Thr Gly Ile Glu Ala Ala Met Leu Asp Leu Leu Gly
 115 120 125
 Gln His Leu Gly Val Asn Val Ala Ser Leu Leu Gly Asp Gly Gln Gln
 130 135 140
 Arg Ser Glu Val Glu Met Leu Gly Tyr Leu Phe Phe Ile Gly Asn Arg
 145 150 155 160
 Lys Leu Thr Pro Leu Pro Tyr Gln Ser Gln Pro Asp Glu Lys Cys Asp
 165 170 175
 Trp Tyr Arg Val Arg His Asp Glu Ala Met Thr Pro Asp Ala Val Val
 180 185 190
 Arg Leu Ala Glu Ala Ala Tyr Glu Lys Tyr Gly Phe Asn Asp Phe Lys
 195 200 205
 Leu Lys Gly Gly Val Leu Ala Gly Glu Glu Glu Ala Glu Ala Ile Ala
 210 215 220
 Ala Leu Ala Lys Arg Phe Pro Gln Ala Arg Val Thr Leu Asp Pro Asn
 225 230 235 240
 Gly Ala Trp Ser Leu Asp Glu Ala Ile Lys Ile Gly Lys Gln Leu Lys
 245 250 255
 Gly Val Leu Ala Tyr Ala Glu Asp Pro Cys Gly Ala Glu Gln Gly Phe
 260 265 270
 Ser Gly Arg Glu Val Met Ala Glu Phe Arg Arg Ala Thr Gly Leu Pro
 275 280 285
 Thr Ala Thr Asn Met Ile Ala Thr Asp Trp Arg Gln Met Gly His Thr
 290 295 300
 Leu Ser Leu Gln Ser Val Asp Ile Pro Leu Ala Asp Pro His Phe Trp
 305 310 315 320
 Thr Met Gln Gly Ser Val Arg Val Ala Gln Met Cys His Glu Phe Gly
 325 330 335
 Leu Thr Trp Gly Ser His Ser Asn Asn His Phe Asp Ile Ser Leu Ala
 340 345 350
 Met Phe Thr His Val Ala Ala Ala Ala Pro Gly Asn Ile Thr Ala Ile
 355 360 365
 Asp Thr His Trp Ile Trp Gln Glu Gly Asn Gln Arg Leu Thr Lys Gln
 370 375 380
 Pro Phe Glu Ile Lys Gly Gly Met Val Gln Val Pro Ala Thr Pro Gly
 385 390 395 400
 Leu Gly Val Glu Leu Asp Met Asp Gln Val Met Lys Ala His Glu Leu
 405 410 415
 Tyr Gln Lys His Gly Leu Gly Ala Arg Asp Asp Ala Leu Ala Met Gln
 420 425 430
 Tyr Leu Ile Pro Glu Trp Arg Phe Asp Asn Lys Arg Pro Cys Met Val
 435 440 445

Arg
450

<210> 8107

<211> 551

<212> PRT

<213> Enterobacter cloacae

<400> 8107

```

Leu Leu Arg Phe Ser Met Thr Thr Asn Tyr Ile Phe Val Thr Gly Gly
1      5      10      15
Val Val Ser Ser Leu Gly Lys Gly Ile Ala Ala Ala Ser Leu Ala Ala
20      25      30
Ile Leu Glu Ala Arg Gly Leu Asn Val Thr Met Met Lys Leu Asp Pro
35      40      45
Tyr Ile Asn Val Asp Pro Gly Thr Met Ser Pro Thr Gln His Gly Glu
50      55      60
Val Phe Val Thr Glu Asp Gly Ala Glu Thr Asp Leu Asp Leu Gly His
65      70      75      80
Tyr Glu Arg Phe Ile Arg Thr Lys Met Thr Arg Arg Asn Asn Phe Thr
85      90      95
Thr Gly Arg Ile Tyr Ser Asp Val Leu Arg Lys Glu Arg Arg Gly Asp
100      105      110
Tyr Leu Gly Ala Thr Val Gln Val Ile Pro His Ile Thr Asn Ala Ile
115      120      125
Lys Glu Arg Val Leu Ala Gly Gly Glu Gly His Asp Val Val Leu Val
130      135      140
Glu Ile Gly Gly Thr Val Gly Asp Ile Glu Ser Leu Pro Phe Leu Glu
145      150      155      160
Ala Ile Arg Gln Leu Ala Val Asp Ile Gly Arg Glu His Ala Leu Phe
165      170      175
Met His Leu Thr Leu Val Pro Tyr Met Ala Ala Ala Gly Glu Val Lys
180      185      190
Thr Lys Pro Thr Gln His Ser Val Lys Glu Leu Leu Ser Ile Gly Ile
195      200      205
Gln Pro Asp Ile Leu Val Cys Arg Ser Asp Arg Ala Ile Pro Ala Asn
210      215      220
Glu Arg Ala Lys Ile Ala Leu Phe Cys Asn Val Pro Glu Lys Ala Val
225      230      235      240
Ile Ser Met Lys Asp Val Asp Ser Ile Tyr Lys Ile Pro Gly Leu Leu
245      250      255
Lys Ser Gln Gly Leu Asp Asp Tyr Ile Cys Lys Arg Phe Ser Leu Asn
260      265      270
Cys Pro Glu Ala Asn Leu Ser Glu Trp Glu Gln Val Ile Tyr Glu Glu
275      280      285
Ala Asn Pro Gly Gly Glu Val Thr Ile Gly Met Val Gly Lys Tyr Ile
290      295      300
Glu Leu Pro Asp Ala Tyr Lys Ser Val Ile Glu Ala Leu Lys His Gly
305      310      315      320
Gly Leu Lys Asn Arg Val Ser Val Asn Ile Lys Leu Ile Asp Ser Gln
325      330      335
Asp Val Glu Thr Arg Gly Val Glu Ile Leu Lys Asp Leu Asp Ala Ile
340      345      350      355
Leu Ile Pro Gly Gly Phe Gly Tyr Arg Gly Val Glu Gly Lys Ile Ala
360      365
Thr Ala Arg Tyr Ala Arg Glu Asn Asn Ile Pro Tyr Leu Gly Ile Cys
370      375      380
Leu Gly Met Gln Val Ala Leu Ile Glu Phe Ala Arg Asn Val Ala Gly
385      390      395      400
Met Glu Asn Ala Asn Ser Thr Glu Phe Val Pro Asp Cys Lys Tyr Pro
405      410      415

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Val Val Ala Leu Ile Thr Glu Trp Arg Asp Glu Asp Gly Asn Val Glu
 420 425 430
 Val Arg Thr Glu Lys Ser Asp Leu Gly Gly Thr Met Arg Leu Gly Ala
 435 440 445
 Gln Ala Cys Gln Leu Ser Asp Asp Ser Val Val Arg Lys Leu Tyr Gly
 450 455 460
 Glu Pro Val Ile Thr Glu Arg His Arg His Arg Tyr Glu Val Asn Asn
 465 470 475 480
 Met Leu Leu Lys Gln Ile Glu Ala Ala Gly Leu Arg Val Ala Gly Arg
 485 490 495
 Ser Gly Asp Asp Gln Leu Val Glu Ile Ile Glu Val Pro Asn His Pro
 500 505 510
 Trp Phe Val Ala Cys Gln Phe His Pro Glu Phe Thr Ser Thr Pro Arg
 515 520 525
 Asp Gly His Pro Leu Phe Ala Gly Phe Val Lys Ala Ala Ser Glu Tyr
 530 535 540
 Gln Lys Arg Gln Ala Lys
 545 550

<210> 8108

<211> 450

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (421)

<400> 8108

Phe Ser Gln Leu Lys Ile Tyr Val Val Lys Ile Phe Ile Asn Asn Gln
 1 5 10 15
 Gly Asp Lys Lys Met Met Gln Met Phe Ser Gly Ala Ser Ser Gly Gly
 20 25 30
 Trp Phe Glu Lys Ala Gln Arg Phe Gly Lys Ser Phe Met Leu Pro Ile
 35 40 45
 Ala Ile Leu Pro Ala Ala Gly Leu Leu Gly Ile Gly Gly Ala Leu
 50 55 60
 Ser Asn Pro Asn Thr Leu Thr Ala Tyr Pro Phe Leu Asp Val Gly Trp
 65 70 75 80
 Leu Gln Ala Ile Phe Thr Ile Met Ser Ser Ala Gly Ser Ile Val Phe
 85 90 95
 Ala Asn Leu Ser Val Leu Phe Ala Val Gly Val Ala Val Gly Leu Ala
 100 105 110
 Lys Asn Asp Lys Gly Thr Ala Gly Leu Ala Ala Leu Leu Ala Tyr Leu
 115 120 125
 Val Met Asn Ala Thr Ile Asn Ala Leu Leu Ile Leu Thr Gly Lys Leu
 130 135 140
 Ala His Glu Asn Pro Gly Ala Val Gly Gln Gly Met Thr Leu Gly Ile
 145 150 155 160
 Gln Thr Leu Glu Thr Gly Val Phe Gly Gly Val Val Ile Gly Leu Val
 165 170 175
 Thr Cys Ala Leu His His Arg Phe Asn Lys Ile Ala Leu Pro Gln Phe
 180 185 190
 Leu Gly Phe Phe Gly Gly Ser Arg Gly Val Pro Ile Ile Ser Ser Leu
 195 200 205
 Ala Ala Ile Leu Val Gly Ala Leu Met Thr Val Val Trp Pro His Phe
 210 215 220
 Gln Lys Leu Ile Phe Gly Leu Gly Gly Leu Val Asp Ala Thr Gly Tyr
 225 230 235 240
 Leu Gly Thr Leu Leu Tyr Gly Phe Ile Leu Arg Met Leu Gly Pro Phe
 245 250 255

Gly Leu His His Ile Phe Tyr Leu Pro Phe Trp Thr Thr Ala Leu Gly
 260 265 270
 Gly Ser Glu Ile Val Asn Gly His Leu Val Glu Gly Thr Gln Arg Ile
 275 280 285
 Phe Phe Ala Gln Leu Ala Asp Pro Asn Thr Gln His Phe Tyr Glu Gly
 290 295 300
 Thr Ser Arg Phe Met Ser Gly Arg Phe Ile Thr Met Met Phe Gly Leu
 305 310 315 320
 Leu Gly Ala Cys Leu Ala Met Tyr His Thr Ala Arg Pro Glu Asn Lys
 325 330 335
 Lys Arg Val Ala Gly Leu Leu Leu Ser Ala Ala Leu Thr Ser Phe Leu
 340 345 350
 Thr Gly Ile Thr Glu Pro Ile Glu Phe Ser Phe Leu Phe Ile Ala Pro
 355 360 365
 Val Leu Tyr Val Ile His Ala Leu Phe Asp Gly Leu Ala Phe Met Leu
 370 375 380
 Ala His Ile Leu His Ile Thr Ile Gly Gln Thr Phe Ser Gly Gly Phe
 385 390 395 400
 Ile Asp Phe Val Leu Phe Gly Ile Leu Gln Gly Glu Ala Lys Thr Asn
 405 410 415
 Trp Met Phe Val Xaa Leu Val Gly Val Pro Trp Phe Phe Leu Tyr Tyr
 420 425 430
 Cys Thr Phe Arg Tyr Leu Ile Lys Arg Phe Asp Phe Ala Thr Pro Gly
 435 440 445
 Pro
 450

<210> 8109

<211> 463

<212> PRT

<213> *Enterobacter cloacae*

<400> 8109

Thr Arg Arg Lys Leu Cys Phe Arg Ser Ala Thr Met Ser Thr Leu Ser
 1 5 10 15
 His Ala Ala Ser Ser Ala Glu Lys Arg Thr Asn Ala Arg Tyr Trp Ile
 20 25 30
 Val Val Met Leu Phe Ile Val Thr Ser Phe Asn Tyr Gly Asp Arg Ala
 35 40 45
 Thr Leu Ser Ile Ala Gly Ser Glu Met Ala Lys Asp Ile Gly Leu Asp
 50 55 60
 Pro Val Gly Met Gly Tyr Val Phe Ser Ala Phe Ser Trp Ala Tyr Val
 65 70 75 80
 Ile Gly Gln Ile Pro Gly Gly Trp Leu Leu Asp Arg Phe Gly Ser Lys
 85 90 95
 Arg Val Tyr Phe Trp Ser Ile Phe Ile Trp Ser Met Phe Thr Leu Leu
 100 105 110
 Gln Gly Phe Val Asp Ile Phe Ser Gly Phe Gly Ile Ile Ile Ala Leu
 115 120 125
 Phe Thr Leu Arg Phe Leu Val Gly Leu Ala Glu Ala Pro Ser Phe Pro
 130 135 140
 Gly Asn Ser Arg Ile Val Ala Ala Trp Phe Pro Ala Gln Glu Arg Gly
 145 150 155 160
 Thr Ala Val Ala Ile Phe Asn Ser Ala Gln Tyr Phe Ala Thr Val Ile
 165 170 175
 Phe Ala Pro Ile Met Gly Trp Leu Thr His Glu Val Gly Trp Ser His
 180 185 190
 Val Phe Phe Phe Met Gly Gly Leu Gly Ile Val Ile Ser Phe Ile Trp
 195 200 205
 Leu Lys Val Ile His Glu Pro Asn Gln His Pro Gly Val Asn Lys Lys
 210 215 220

Glu Leu Asp Tyr Ile Ala Glu Gly Gly Ala Leu Ile Asn Met Asp Gln
 225 230 235
 Lys Thr Gln Lys Ala Lys Val Pro Phe Ser Gln Lys Trp Gly Gln Ile
 245 250 255
 Lys Gln Leu Val Gly Ser Arg Met Met Ile Gly Ile Tyr Leu Gly Gln
 260 265 270
 Tyr Cys Ile Asn Ala Leu Thr Tyr Phe Ile Thr Trp Phe Pro Val
 275 280 285
 Tyr Leu Val Gln Ala Arg Gly Met Ser Ile Leu Lys Ala Gly Phe Val
 290 295 300
 Ala Ser Val Pro Ala Ile Cys Gly Phe Val Gly Gly Val Leu Gly Gly
 305 310 315 320
 Val Ile Ser Asp Trp Leu Met Arg Arg Thr Gly Ser Leu Asn Ile Ala
 325 330 335
 Arg Lys Thr Pro Ile Val Leu Gly Met Leu Leu Ser Met Thr Met Val
 340 345 350
 Phe Cys Asn Tyr Val Ser Ala Glu Trp Met Ile Ile Gly Phe Met Ala
 355 360 365
 Met Ala Phe Phe Gly Lys Gly Ile Gly Ala Leu Gly Trp Ala Val Met
 370 375 380
 Ala Asp Thr Ala Pro Lys Glu Ile Ser Gly Leu Ser Gly Gly Leu Phe
 385 390 395 400
 Asn Met Phe Gly Asn Ile Ser Gly Ile Val Thr Pro Ile Ala Ile Gly
 405 410 415
 Tyr Ile Val Gly Thr Thr Gly Ser Phe Asn Gly Ala Leu Ile Tyr Val
 420 425 430
 Gly Val His Ala Leu Val Ala Val Leu Ser Tyr Leu Val Leu Val Gly
 435 440 445
 Asp Ile Lys Arg Ile Glu Leu Lys Pro Val Gly Glu Arg Gly
 450 455 460

<210> 8110

<211> 522

<212> PRT

<213> Enterobacter cloacae

<400> 8110

Leu Thr Asn Gly Phe Thr Val Leu Gln Val His Thr Val Leu Ala Gly
 1 5 10 15
 Asp Gly Gln Arg Phe Asp Asn Ala Gly Pro Gly Ile Phe Lys Leu Ser
 20 25 30
 Leu Gln Ile Val Ile Ala Met His His Lys Glu Asn Ala Gln Gln Gln
 35 40 45
 Thr Asp Glu Asn Gly Arg Ser Glu Asp Gln Asn His His Ala Arg Ala
 50 55 60
 Gln Ala Val Val Gly His Gly Val Pro Leu Trp Asp Asn Gln Ala Asn
 65 70 75 80
 Tyr Val Tyr Leu Arg Thr Ile Ser Ala Met Ala Gln Phe Tyr Ser Ala
 85 90 95
 Lys Arg Arg Val Thr Thr Arg Gln Ile Ile Thr Val Glu Ala Ser Asp
 100 105 110
 Leu Asp Pro Phe Gly Gln Gly Val Ala Arg His Lys Gly Lys Thr Leu
 115 120 125
 Phe Ile Thr Gly Leu Leu Pro Gly Glu Arg Ala Asp Ile Thr Leu Thr
 130 135 140
 Glu Asp Lys Arg Gln Tyr Ala Arg Gly Gln Val Lys Arg Arg Leu Asn
 145 150 155 160
 Asp Ser Pro Glu Arg Val Thr Pro Arg Cys Pro His Phe Gly Val Cys
 165 170 175
 Gly Gly Cys Gln Gln Gln His Ala Ser Thr Glu Leu Gln Gln Lys Ser
 180 185 190

Lys Ser Ser Ala Leu Ala Arg Leu Val Gly His Asp Val Asn Asp Ile
 195 200 205
 Ile Ala Asp Arg Pro Trp Gly Tyr Arg Arg Arg Ala Arg Leu Ser Leu
 210 215 220
 Ser Tyr Gln Pro Lys Thr Glu Arg Leu Glu Met Gly Phe Arg Lys Ala
 225 230 235 240
 Gly Ser Ser Asp Ile Val Ser Val Thr Gln Cys Pro Val Leu Val Pro
 245 250 255
 His Leu Glu Ala Leu Leu Pro Asp Val His His Cys Leu Ala Ser Leu
 260 265 270
 Asp Gly Val Arg Ser Leu Gly His Val Glu Leu Val Leu Ala Asn Ser
 275 280 285
 Gly Pro Leu Met Val Leu Arg His Thr Ala Pro Leu Ser Lys Ala Asp
 290 295 300
 Arg Glu Lys Leu Glu Arg Phe Ser His Ser His Glu Leu Ala Leu Phe
 305 310 315 320
 Leu Ala Pro Gln Ser Glu Ile Leu Glu Gln Val Ser Gly Glu Ala Pro
 325 330 335
 Trp Tyr Ala Ser Asp Gly Leu Arg Leu Thr Phe Ser Pro Arg Asp Phe
 340 345 350
 Ile Gln Val Asn Asp Gly Val Asn Gln Gln Met Val Ala Asn Ala Leu
 355 360 365
 Glu Trp Leu Asp Val Gln Pro Thr Asp Arg Val Leu Asp Leu Phe Cys
 370 375 380
 Gly Met Gly Asn Phe Thr Leu Pro Leu Ala Arg Arg Ala Ala Ser Val
 385 390 395 400
 Val Gly Val Glu Gly Val Glu Ala Leu Val Ala Lys Gly Gln Glu Asn
 405 410 415
 Ala Gln Gln Asn Gly Leu Gln Asn Val Thr Phe Phe His Gln Asn Leu
 420 425 430
 Glu Asp Asp Val Thr Gln Gln Pro Trp Ala Lys Gln Gly Phe Asp Lys
 435 440 445
 Ile Leu Leu Asp Pro Ala Arg Ala Gly Ala Pro Gly Val Met Gln His
 450 455 460
 Ile Ile Lys Leu Ala Pro Glu Arg Val Val Tyr Val Ser Cys Asn Pro
 465 470 475 480
 Ala Thr Leu Ala Arg Asp Ser Glu Ala Leu Leu Ser Gly Gly Tyr Gln
 485 490 495
 Ile Arg Arg Leu Ala Met Leu Asp Met Phe Pro His Thr Gly His Leu
 500 505 510
 Glu Ser Met Val Leu Phe Glu His Ile
 515 520

<210> 8111

<211> 760

<212> PRT

<213> Enterobacter cloacae

<400> 8111

Val Trp Leu Val Asp Phe Asp Arg Pro Leu Ser Leu Lys Glu Arg Thr
 1 5 10 15
 Met Val Ala Val Arg Ser Ala His Leu Asn Lys Ala Gly Glu Phe Asp
 20 25 30
 Pro Gln Lys Trp Ile Ala Ser Leu Gly Ile Ser Ser Gln Gln Ser Cys
 35 40 45
 Glu Arg Leu Thr Glu Thr Trp Ala Tyr Cys Leu Arg Thr Thr Gln Gly
 50 55 60
 His Pro Asp Ala Glu Leu Leu Leu Trp Arg Gly Val Glu Met Val Glu
 65 70 75 80
 Ile Leu Ser Met Leu Asn Met Asp Ile Glu Thr Leu Gln Ala Ala Leu
 85 90 95

Leu Phe Pro Leu Ala Asp Ala Asp Val Val Thr Glu Asp Val Leu Arg
 100 105 110
 Glu Ser Val Gly Gln Ser Val Val Ala Leu Ile His Gly Val Arg Asp
 115 120 125
 Met Ala Ala Ile Arg Gln Leu Lys Ala Ala Gln Thr Asp Ser Val Ser
 130 135 140
 Ser Glu Gln Val Asp Asn Val Arg Arg Met Leu Leu Ala Met Val Asp
 145 150 155 160
 Asp Phe Arg Cys Val Val Ile Lys Leu Ala Glu Arg Val Ala His Leu
 165 170 175
 Arg Glu Val Lys Asp Ala Pro Glu Asp Glu Arg Val Leu Ala Ala Lys
 180 185 190
 Glu Cys Thr Asn Ile Tyr Ala Pro Leu Ala Asn Arg Leu Gly Ile Gly
 195 200 205
 Gln Leu Lys Trp Glu Leu Glu Asp Tyr Cys Phe Arg Tyr Leu His Pro
 210 215 220
 Ala Glu Tyr Lys Arg Ile Ala Lys Leu Leu His Glu Arg Arg Ile Asp
 225 230 235 240
 Arg Glu His Tyr Ile Glu Glu Phe Val Ser Gly Leu Arg Gln Ser Met
 245 250 255
 Lys Glu Glu Asn Val Arg Ala Glu Val Tyr Gly Arg Pro Lys His Ile
 260 265 270
 Tyr Ser Ile Trp Arg Lys Met Gln Lys Lys His Leu Ala Phe Asp Glu
 275 280 285
 Leu Phe Asp Val Arg Ala Val Arg Ile Val Ala Glu Arg Leu Gln Asp
 290 295 300
 Cys Tyr Ala Ala Leu Gly Ile Val His Thr His Phe Arg His Leu Pro
 305 310 315 320
 Asp Glu Phe Asp Asp Tyr Val Ala Asn Pro Lys Pro Asn Gly Tyr Gln
 325 330 335
 Ser Ile His Thr Val Val Leu Gly Pro Gly Gly Lys Thr Val Glu Ile
 340 345 350
 Gln Ile Arg Thr Lys Gln Met His Glu Asp Ala Glu Leu Gly Val Ala
 355 360 365
 Ala His Trp Lys Tyr Lys Glu Gly Thr Ser Gly Gly Arg Ser Gly
 370 375 380
 His Glu Asp Arg Ile Ala Trp Leu Arg Lys Leu Ile Ala Trp Gln Glu
 385 390 395 400
 Glu Met Ala Asp Ser Gly Glu Met Leu Asp Glu Val Arg Ser Gln Val
 405 410 415
 Phe Asp Asp Arg Val Tyr Val Phe Thr Pro Lys Gly Asp Val Val Asp
 420 425 430
 Leu Pro Ala Gly Ser Thr Pro Leu Asp Phe Ala Tyr His Ile His Ser
 435 440 445
 Asp Val Gly His Arg Cys Ile Gly Ala Lys Ile Gly Gly Arg Ile Val
 450 455 460
 Pro Phe Thr Tyr Gln Leu Gln Met Gly Asp Gln Ile Glu Ile Ile Thr
 465 470 475 480
 Gln Lys Gln Pro Asn Pro Ser Arg Asp Trp Leu Asn Pro Asn Leu Gly
 485 490 495
 Tyr Val Thr Thr Ser Arg Gly Arg Ser Lys Ile His Ala Trp Phe Arg
 500 505 510
 Lys Gln Asp Arg Asp Lys Asn Ile Leu Ala Gly Arg Gln Ile Leu Asp
 515 520 525
 Asp Glu Leu Glu His Ile Gly Ile Ser Leu Lys Glu Ala Glu Lys Phe
 530 535 540
 Leu Leu Pro Arg Tyr Asn Phe Asn Glu Leu Asp Glu Leu Leu Ala Ala
 545 550 555 560
 Ile Gly Gly Gly Asp Ile Arg Leu Asn Gln Met Val Asn Phe Leu Gln
 565 570 575
 Ala Gln Phe Asn Lys Pro Ser Ala Ala Glu Gln Asp Ala Ala Ala Leu

580 585 590
 Lys Gln Leu Gln Gln Lys Thr Tyr Ala Pro Gln Gln Arg Ser Lys Asp
 595 600 605
 Asn Gly Arg Val Val Glu Gly Val Gly Asn Leu Met His His Ile
 610 615 620
 Ala Arg Cys Cys Gln Pro Ile Pro Gly Asp Asp Ile Val Gly Phe Ile
 625 630 635 640
 Thr Gln Gly Arg Gly Ile Ser Ile His Arg Ser Asp Cys Asp Gln Leu
 645 650 655
 Ala Glu Leu Gln Ser His Ala Pro Glu Arg Ile Val Glu Ala Val Trp
 660 665 670
 Gly Glu Ser Tyr Ser Ala Gly Tyr Ser Leu Val Val Arg Val Thr Ala
 675 680 685
 Asn Asp Arg Ser Gly Leu Leu Arg Asp Ile Thr Thr Ile Leu Ala Asn
 690 695 700
 Glu Lys Val Asn Val Leu Gly Val Ala Ser Arg Ser Asp Thr Arg Glu
 705 710 715 720
 Gln Leu Ala Thr Ile Asp Met Thr Ile Glu Ile Tyr Asn Leu Gln Val
 725 730 735
 Leu Gly Arg Val Leu Gly Lys Leu Asn Gln Val Pro Asp Val Ile Asp
 740 745 750
 Ala Arg Arg Leu His Gly Gly 755 760

<210> 8112
 <211> 457
 <212> PRT
 <213> Enterobacter cloacae

<400> 8112
 Asn Gly Asn Ala Tyr Leu Trp Tyr Ala Leu Phe Val Trp Ser Phe Ser
 1 5 10 15
 Leu Thr Cys Thr Glu Glu Asn Leu Met Ser Lys Ile Val Lys Val Ile
 20 25 30
 Gly Arg Glu Ile Ile Asp Ser Arg Gly Asn Pro Thr Val Glu Ala Glu
 35 40 45
 Val His Leu Glu Gly Gly Phe Val Gly Met Ala Ala Pro Ser Gly
 50 55 60
 Ala Ser Thr Gly Ser Arg Glu Ala Leu Glu Leu Arg Asp Gly Asp Lys
 65 70 75 80
 Ser Arg Phe Met Gly Lys Gly Val Leu Lys Ala Val Gly Ala Val Asn
 85 90 95
 Gly Pro Ile Ala Gln Ala Ile Val Gly Lys Asp Ala Lys Asp Gln Ala
 100 105 110
 Gly Ile Asp Lys Ile Met Ile Asp Leu Asp Gly Thr Glu Asn Lys Ser
 115 120 125
 Asn Phe Gly Ala Asn Ala Ile Leu Ala Val Ser Leu Ala Asn Ala Lys
 130 135 140
 Ala Ala Ala Ala Lys Gly Met Pro Leu Phe Glu His Ile Ala Glu
 145 150 155 160
 Leu Asn Gly Thr Pro Gly Lys Tyr Ser Met Pro Val Pro Met Met Asn
 165 170 175
 Ile Ile Asn Gly Gly Glu His Ala Asp Asn Asn Val Asp Ile Gln Glu
 180 185 190
 Phe Met Ile Gln Pro Val Gly Ala Lys Thr Leu Lys Glu Ala Val Arg
 195 200 205
 Met Gly Ser Glu Val Phe His Asn Leu Ala Lys Val Leu Lys Ala Lys
 210 215 220
 Gly Met Asn Thr Ala Val Gly Asp Glu Gly Gly Tyr Ala Pro Asn Leu
 225 230 235 240
 Gly Ser Asn Ala Glu Ala Leu Ala Val Ile Ala Glu Ala Val Lys Ala

245 250 255
 Ala Gly Tyr Glu Leu Gly Lys Asp Ile Thr Leu Ala Met Asp Cys Ala
 260 265 270
 Ala Ser Glu Phe Tyr Lys Asp Gly Lys Tyr Val Leu Ala Gly Glu Gly
 275 280 285
 Asn Lys Ala Phe Thr Ser Glu Glu Phe Thr His Phe Leu Glu Asp Leu
 290 295 300
 Thr Lys Gln Tyr Pro Ile Val Ser Ile Glu Asp Gly Leu Asp Glu Ser
 305 310 315 320
 Asp Trp Asp Gly Phe Ala Tyr Gln Thr Lys Val Leu Gly Asp Lys Ile
 325 330 335
 Gln Leu Val Gly Asp Asp Leu Phe Val Thr Asn Thr Lys Ile Leu Lys
 340 345 350
 Glu Gly Ile Glu Lys Gly Ile Val Asn Ser Ile Leu Ile Lys Phe Asn
 355 360 365
 Gln Ile Gly Ser Leu Thr Glu Thr Leu Ala Ala Ile Lys Met Ala Lys
 370 375 380
 Asp Ala Gly Tyr Thr Ala Val Ile Ser His Arg Ser Gly Glu Thr Glu
 385 390 395 400
 Asp Ala Thr Ile Ala Asp Leu Ala Val Gly Thr Ala Ala Gly Gln Ile
 405 410 415
 Lys Thr Gly Ser Met Ser Arg Ser Asp Arg Val Ala Lys Tyr Asn Gln
 420 425 430
 Leu Ile Arg Ile Glu Glu Ala Leu Gly Glu Lys Ala Pro Tyr Asn Gly
 435 440 445
 Arg Lys Glu Ile Lys Gly Gln Ala
 450 455

<210> 8113

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 8113

His Leu Ser Gln Ile Thr Met Ser Lys Arg Leu Pro Pro Leu Asn Ala
 1 5 10 15
 Leu Arg Val Phe Asp Ala Ala Ala Arg His Leu Ser Phe Thr Arg Ala
 20 25 30
 Ala Asp Glu Leu Phe Val Thr Gln Ala Ala Val Ser His Gln Ile Lys
 35 40 45
 Ser Leu Glu Asp Phe Leu Gly Leu Lys Leu Phe Arg Arg Arg Asn Arg
 50 55 60
 Ser Leu Leu Leu Thr Glu Glu Gly Gln Ser Tyr Phe Gln Asp Ile Lys
 65 70 75 80
 Glu Ile Phe Ser Gln Leu Thr Glu Ala Thr Arg Lys Leu Gln Ala Arg
 85 90 95
 Ser Ala Lys Gly Ala Leu Thr Val Ser Leu Leu Pro Ser Phe Ala Ile
 100 105 110
 Gln Trp Leu Val Pro Arg Leu Ser Ser Phe Asn Ser Thr Tyr Pro Gly
 115 120 125
 Ile Asp Val Arg Ile Gln Ala Val Asp Arg Gln Glu Asp Lys Leu Ala
 130 135 140
 Asp Asp Val Asp Val Ala Ile Phe Tyr Gly Arg Gly Asn Trp Pro Gly
 145 150 155 160
 Leu Arg Val Glu Lys Leu Tyr Ala Glu Tyr Leu Leu Pro Val Cys Ser
 165 170 175
 Pro Leu Leu Leu Thr Gly Asp Lys Ala Leu Lys Thr Pro Ala Asp Leu
 180 185 190
 Ala Gln His Thr Leu Leu His Asp Ala Ser Arg Arg Asp Trp Gln Thr
 195 200 205
 Tyr Thr Arg Gln Leu Gly Leu Asn His Ile Asn Val Gln Gln Gly Pro

```

      210              215              220
Ile Phe Ser His Ser Ala Met Val Leu Gln Ala Ile His Gly Gln
225              230              235              240
Gly Val Ala Leu Ala Asn Asn Val Met Ala Gln Ser Glu Ile Glu Ala
      245              250              255
Gly Arg Leu Val Cys Pro Phe Asn Asp Val Leu Val Ser Lys Asn Ala
      260              265              270
Phe Tyr Leu Val Cys His Asp Ser Gln Ala Glu Leu Gly Lys Ile Ala
      275              280              285
Ala Phe Arg Gln Trp Ile Leu Ala Lys Ala Ala Ser Glu Gln Glu Lys
      290              295              300
Phe Arg Phe Arg Tyr Glu Gln
305              310

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<210> 8114

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 8114

```

Arg Leu Cys Ala Gly His Ala Ser Ile Gln Asp Leu Asn Met Thr Ser
1              5              10              15
Arg Phe Met Leu Ile Phe Ala Ala Val Ser Gly Phe Ile Phe Val Ala
      20              25              30
Leu Gly Ala Phe Gly Ala His Val Leu Ser Lys Ser Leu Gly Val Val
      35              40              45
Glu Met Gly Trp Ile Gln Thr Gly Leu Glu Tyr Gln Ala Phe His Thr
      50              55              60
Leu Ala Ile Phe Gly Leu Ala Val Ala Met Gln Pro Ala Ile Ser Ile
      65              70              75              80
Trp Phe Tyr Trp Ser Ser Val Tyr Leu Ala Val Gly Thr Val Leu Phe
      85              90              95
Ser Gly Ile Leu Tyr Cys Leu Ala Leu Ser His Leu Arg Leu Trp Ala
      100              105              110
Phe Val Thr Pro Val Gly Gly Val Ser Phe Leu Ala Gly Trp Val Leu
      115              120              125
Met Phe Ile Gly Ala Ile Arg Leu Lys Arg Lys Gly Val Val His Glu
      130              135              140

```

145

<210> 8115

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 8115

```

Pro Leu Tyr Arg Tyr Thr Tyr Gly Leu Ser Cys Leu Thr Arg
1              5              10              15
Arg Glu Lys Ser Val Asp Ile Glu Thr Ala Asn Ala Leu Thr Ser Phe
      20              25              30
Thr Thr Arg Tyr Cys Asp Ala Trp His Glu Lys Arg Gly Thr Trp Pro
      35              40              45
Gln Ser Thr Asp Leu Cys Gly Val Pro Ser Pro Cys Ile Ile Ala Ser
      50              55              60
Gln Asp Asp Tyr Val Ile Trp Gln Pro Lys Pro Phe Met Gly Glu Gln
      65              70              75              80
Asn Val Asn Ala Val Glu Arg Ala Met Asp Leu Val Ile Gln Pro Ala
      85              90              95
Leu His Ala Phe Tyr Thr Thr Gln Phe Ala Gly Asp Met Thr Ala Cys
      100              105              110

```

Phe Ala Gly Gln Pro Leu Thr Leu Leu Gln Thr Trp Ser Glu Asp Asp
 115 120 125
 Leu Gln Arg Val Gln Glu Asn Leu Ile Gly His Leu Val Thr Gln Lys
 130 135 140
 Arg Leu Lys Leu Ser Pro Thr Leu Phe Ile Ala Thr Leu Asp Ser Glu
 145 150 155 160
 Leu Asp Val Ile Ser Val Cys Asn Leu Ser Gly Glu Val Ile Lys Glu
 165 170 175
 Thr Leu Gly Thr Arg Asn Arg Asp Val Leu Ala Pro Ser Leu Ala Asp
 180 185 190
 Phe Leu Thr Arg Ile Glu Pro Leu Leu
 195 200

<210> 8116

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8116

Arg Cys Met Thr Leu Glu Ile Leu Tyr Gln Asp Glu Trp Leu Val Ala
 1 5 10 15
 Val Asn Lys Pro Ser Gly Trp Leu Val His Arg Ser Trp Leu Asp Arg
 20 25 30
 Asp Glu Lys Val Val Val Met Gln Thr Val Arg Asp Gln Ile Gly Gln
 35 40 45
 His Val Phe Thr Ala His Arg Leu Asp Arg Pro Thr Ser Gly Val Leu
 50 55 60
 Leu Met Gly Leu Ser Ser Glu Ala Gly Arg Leu Leu Ala Gln Gln Phe
 65 70 75 80
 Glu Gln His Gln Ile Gln Lys Arg Tyr His Ala Ile Val Arg Gly Trp
 85 90 95
 Leu Met Asp Ser Ala Thr Leu Asp Tyr Pro Leu Val Glu Glu Leu Asp
 100 105 110
 Lys Ile Ala Asp Lys Phe Ala Arg Glu Asp Lys Gly Pro Gln Pro Ala
 115 120 125
 Val Thr Asp Tyr Arg Gly Met Ala Thr Thr Glu Leu Pro Val Ala Thr
 130 135 140
 Ser Lys Phe Pro Thr Thr Arg Tyr Ser Leu Val Glu Leu Leu Pro Lys
 145 150 155 160
 Thr Gly Arg Lys His Gln Leu Arg Arg His Leu Ala His Leu Arg His
 165 170 175
 Pro Ile Ile Gly Asp Ser Lys His Gly Asp Leu Arg Gln Asn Arg Ser
 180 185 190
 Ala Ala Glu His Phe Gly Cys Asn Arg Leu Met Leu His Ala Ser Glu
 195 200 205
 Leu Arg Leu Thr His Pro Phe Thr Gly Glu Pro Leu Thr Ile Arg Ala
 210 215 220
 Gly Leu Asp Lys Val Trp Met Gln Ala Leu Ser Gln Phe Gly Trp Leu
 225 230 235 240
 Gly Gln Leu Pro Glu Asn Glu Arg Val Glu Phe Ala Ala Gly Asn Val
 245 250 255
 Gln Asp Glu Gln Gln Ala Gln
 260

<210> 8117

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8117

Leu Arg Glu Gln Ser Met Ala Glu Val Gly Ile Phe Val Gly Thr Met

```

1           5           10           15
Tyr Gly Asn Ser Leu Leu Val Ala Glu Glu Ala Glu Ala Ile Leu Val
20
Asn Gln Gly His Lys Ala Thr Val Tyr Glu Asp Pro Glu Leu Ala Asp
35
Trp Glu Lys Tyr Lys Asp Lys Tyr Ile Leu Val Val Thr Ser Thr Thr
50
Gly Gln Gly Asp Leu Pro Asp Ser Ile Val Pro Leu Phe Gln Gly Ile
65
Lys Asp Gln Leu Gly Tyr Gln Pro Asp Val His Tyr Gly Ile Ile Ala
85
Leu Gly Asp Ser Ser Tyr Ala Asn Phe Cys Gly Gly Gly Lys Gln Phe
100
Asp Ala Leu Leu Gln Glu Gln Ser Ala Gln Arg Val Gly Glu Met Leu
115
Leu Ile Asp Ala Gly Glu His Pro Glu Pro Glu Ser Glu Ser Asn Pro
130
Trp Val Glu His Trp Ala Thr Leu Leu Asn
145
150
155

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<210> 8118

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 8118

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Gly Trp Leu Met Lys Ile Val Ile Ala Pro Asp Ser Tyr Lys Glu Ser
1           5           10           15
Leu Ser Ala Leu Glu Val Ala Thr Ala Ile Glu Val Gly Phe Arg Glu
20
Ile Phe Pro Ser Ala His Tyr Val Lys Leu Pro Val Ala Asp Gly Gly
35
Glu Gly Thr Val Glu Ala Met Val Ala Ala Thr His Gly Arg Leu Val
50
His Val Pro Val Thr Gly Pro Leu Gly Glu Arg Val Glu Gly Phe Phe
65
Gly Leu Ser Gly Asp Gly Lys Ser Ala Phe Ile Glu Met Ala Ala Ala
85
Ser Gly Leu Glu Leu Val Ala Pro Ala Lys Arg Asn Pro Leu Ile Thr
100
Thr Ser Trp Gly Thr Gly Glu Leu Ile Arg His Ala Leu Asp Ala Gly
115
Val Lys His Ile Ile Ile Gly Ile Gly Gly Ser Ala Thr Asn Asp Gly
130
Gly Ala Gly Met Val Gln Ala Leu Gly Val Lys Leu Leu Asp Ala Lys
145
Ala Gln Pro Val Gly Pro Gly Gly Gly Glu Leu Ala Ser Leu Ala His
165
Ile Asp Leu Ser Gly Leu Asp Lys Arg Leu Ala Asp Cys Arg Ile Glu
180
Val Ala Cys Asp Val Thr Asn Pro Leu Ile Gly Glu Thr Gly Ala Ser
195
Ala Val Phe Gly Pro Gln Lys Gly Ala Thr Pro Glu Met Val Arg Thr
210
Leu Asp Asn Ala Leu Ala His Tyr Ala Lys Ile Ile Ala Arg Asp Leu
225
Asp Ile Asp Val Leu Asn Leu Ala Gly Gly Gly Ala Ala Gly Gly Met
245
Gly Ala Ala Leu Tyr Ala Phe Cys Gly Ala Gln Leu Arg Gln Gly Ile
260
Glu Ile Val Thr Asp Ala Leu His Leu Asp Glu Gln Val Ala Asp Ala
265
270

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      275              280              285
Asp Leu Val Ile Thr Gly Glu Gly Arg Ile Asp Ser Gln Thr Ile His
  290              295              300
Gly Lys Val Pro Val Gly Val Ala Arg Val Ala Lys Arg Tyr Asn Lys
  305              310              315              320
Pro Val Ile Gly Ile Ala Gly Ser Leu Thr Ala Asp Val Gly Val Val
      325              330              335
His Glu His Gly Leu Asp Ala Val Phe Ser Val Ile Tyr Thr Ile Cys
      340              345
Ser Leu Glu Asp Ala Leu Glu Asn Ala Gln Gln Asn Val Gln Met Ala
      355              360              365
Ala Arg Asn Ile Ala Ala Val Ile Lys Met Gly Gln Gly Met Ser Arg
      370              375              380

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385

<210> 8119

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 8119

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Gly Asn Ala Ala Thr Arg Leu Arg His Leu Met Glu Ser Val Met Thr
  1              5              10              15
Gln Ile Asp Arg Leu Leu Gly Ile Met Lys Arg Leu Arg Asp Pro Glu
      20              25              30
Asn Gly Cys Pro Trp Asp Lys Glu Gln Thr Phe Ala Thr Ile Ala Pro
      35              40              45
Tyr Thr Leu Glu Glu Thr Tyr Glu Val Leu Asp Ala Ile Ser Arg Glu
      50              55              60
Asp Phe Asp Asp Leu Arg Gly Glu Leu Gly Asp Leu Leu Phe Gln Val
      65              70              75              80
Val Phe Tyr Ala Gln Met Ala Gln Glu Glu Gly Arg Phe Asn Phe Asp
      85              90              95
Asp Ile Cys Ala Ala Ile Ser Asp Lys Leu Glu Arg Arg His Pro His
      100              105              110
Ile Phe Gly Asp Ala Ser Ala Gly Asn Ser Ala Glu Val Leu Ala Arg
      115              120              125
Trp Glu Gln Ile Lys Ser Ala Glu Arg Ala Glu Lys Ser Gln His Ser
      130              135              140
Ala Leu Asp Asp Ile Pro Leu Asn Leu Pro Ala Leu Met Arg Ala His
      145              150              155              160
Lys Ile Gln Lys Arg Cys Ser Ala Val Gly Phe Asp Trp Thr Ser Leu
      165              170              175
Gly Pro Val Leu Glu Lys Val His Glu Glu Ile Asp Glu Val Met His
      180              185              190
Glu Ala Gln Gln Ala Val Val Asp Glu Ala Lys Leu Glu Glu Glu Met
      195              200              205
Gly Asp Leu Leu Phe Ala Thr Val Asn Leu Ser Arg His Leu Gly Val
      210              215              220
Lys Ala Glu Thr Ala Leu Gln Lys Ala Asn Ile Lys Phe Glu Arg Arg
      225              230              235              240
Phe Arg Glu Val Glu Arg Ile Val Ala Ser Arg Gly Leu Glu Met Ser
      245              250              255
Gly Ile Asp Leu Asp Ala Met Glu Glu Val Trp Gln Glu Val Lys Arg
      260              265              270
Gln Glu His Asp Leu
      275

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<210> 8120

<211> 458

<212> PRT

<213> Enterobacter cloacae

<400> 8120

Gly Ala His Leu Ile Thr His Ile Ser Pro Leu Gly Ser Met Asp Met
 1 5 10 15
 Leu Ser Gln Leu Glu Val Asp Met Leu Lys Arg Thr Ala Ser Ser Asp
 20 25 30
 Leu Tyr Gln Leu Phe Arg Asn Cys Ser Leu Ala Val Leu Asn Ser Gly
 35 40 45
 Ser Leu Thr Asp Asn Ser Lys Glu Leu Leu Ser Arg Phe Glu Ser Phe
 50 55 60
 Asp Ile Asn Val Leu Arg Arg Glu Arg Gly Val Lys Leu Glu Val Ile
 65 70 75 80
 Asn Pro Pro Glu Asp Ala Phe Val Asp Gly Arg Ile Ile Arg Ser Leu
 85 90 95
 Gln Ala Asn Leu Phe Ala Val Leu Arg Asp Ile Leu Phe Val Asn Gly
 100 105 110
 Gln Ile Ser Asn Ala Gly Arg Phe Gln His Leu Asp Leu Glu Ser Ser
 115 120 125
 Val His Ile Thr Asn Leu Val Phe Ser Ile Leu Arg Asn Ala Arg Ala
 130 135 140
 Leu His Val Gly Glu Ala Pro Asn Met Val Val Cys Trp Gly Gly His
 145 150 155 160
 Ser Ile Asn Glu Thr Glu Tyr Leu Tyr Ala Arg Arg Val Gly Thr Gln
 165 170 175
 Leu Gly Leu Arg Glu Leu Asn Ile Cys Thr Gly Cys Gly Pro Gly Ala
 180 185 190
 Met Glu Ala Pro Met Lys Gly Ala Ala Val Gly His Ala Gln Gln Arg
 195 200 205
 Tyr Lys Glu Gly Arg Phe Ile Gly Met Thr Glu Pro Ser Ile Ile Ala
 210 215 220
 Ala Glu Pro Pro Asn Pro Leu Val Asn Glu Leu Ile Ile Met Pro Asp
 225 230 235 240
 Ile Glu Lys Arg Leu Glu Ala Phe Val Arg Ile Ala His Gly Ile Ile
 245 250 255
 Ile Phe Pro Gly Gly Val Gly Thr Ala Glu Glu Leu Leu Tyr Leu Leu
 260 265 270
 Gly Ile Leu Met Asn Pro Ala Asn Lys Asp Gln Val Leu Pro Leu Ile
 275 280 285
 Leu Thr Gly Pro Lys Glu Ser Ala Asp Tyr Phe Arg Val Leu Asp Glu
 290 295 300
 Phe Ile Val His Thr Leu Gly Glu Asp Ala Arg Arg His Tyr Arg Ile
 305 310 315 320
 Ile Ile Asp Asp Ala Ala Glu Val Ala Arg Gln Met Lys Lys Ala Met
 325 330 335
 Pro Leu Val Lys Glu Asn Arg Arg Asp Thr Gly Asp Ala Tyr Ser Phe
 340 345 350
 Asn Trp Ser Ile Arg Ile Ala Pro Asp Leu Gln Ile Pro Phe Glu Pro
 355 360 365
 Ser His Glu Asn Met Ala Asn Leu Lys Leu Tyr Pro Asp Gln Pro Val
 370 375 380
 Glu Val Leu Ala Ala Asp Leu Arg Arg Ala Phe Ser Gly Ile Val Ala
 385 390 395 400
 Gly Asn Val Lys Glu Val Gly Ile Arg Ala Ile Glu Glu Phe Gly Pro
 405 410 415
 Tyr Lys Ile His Gly Asp Pro Glu Met Met Arg Arg Met Asp Asp Met
 420 425 430
 Leu Gln Gly Phe Val Ala Gln His Arg Met Lys Leu Pro Gly Ser Ala
 435 440 445
 Tyr Ile Pro Cys Tyr Glu Ile Ile Lys

450

455

<210> 8121

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 8121

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Thr Asn Phe Ile Leu Pro Ser Gly Thr Phe Ser Ser Asp Leu Thr Lys
1      5      10      15
Asn Leu Thr Ile Cys Phe Leu Gln Glu Ile Gln Met Glu Thr Gln
20      25      30
Thr Ser Thr Val Ala Ser Ile Glu Ser Arg Ser Gly Trp Arg Lys Thr
35      40      45
Asp Thr Met Trp Met Leu Gly Leu Tyr Gly Thr Ala Ile Gly Ala Gly
50      55      60
Val Leu Phe Leu Pro Ile Asn Ala Gly Val Gly Gly Met Ile Pro Leu
65      70      75      80
Ile Ile Met Ala Leu Ile Ala Phe Pro Met Thr Phe Phe Ala His Arg
85      90      95
Gly Leu Thr Arg Phe Val Leu Ser Gly Lys Asn Pro Gly Glu Asp Ile
100     105     110
Thr Glu Val Val Glu Glu His Phe Gly Val Gly Ala Gly Lys Leu Ile
115     120     125
Thr Leu Leu Tyr Phe Phe Ala Ile Tyr Pro Ile Leu Leu Val Tyr Ser
130     135     140
Val Ala Ile Thr Asn Thr Val Glu Ser Phe Met Met His Gln Leu Gln
145     150     155     160
Met Thr Pro Pro Arg Ala Ile Leu Ser Leu Ile Leu Val Gly
165     170     175
Met Met Thr Ile Val Arg Phe Gly Glu Gln Met Ile Val Lys Ala Met
180     185     190
Ser Val Leu Val Phe Pro Phe Val Ala Ala Leu Met Val Leu Ala Leu
195     200     205
Tyr Leu Ile Pro Gln Trp Asn Gly Ala Ala Leu Glu Thr Leu Ser Leu
210     215     220
Ser Ser Ala Ser Thr Thr Gly Asn Gly Leu Leu Leu Thr Leu Trp Leu
225     230     235     240
Ala Ile Pro Val Met Val Phe Ser Phe Asn His Ser Pro Ile Ile Ser
245     250     255
Ser Phe Ala Val Ala Lys Arg Glu Glu Tyr Gly Asn Gly Ala Glu Lys
260     265     270
Lys Cys Ser Ser Ile Leu Ala Arg Ala His Ile Met Met Val Leu Thr
275     280     285
Val Met Phe Phe Val Phe Ser Cys Val Leu Ser Leu Ser Pro Ala Asp
290     295     300
Leu Ala Ala Ala Lys Glu Gln Asn Ile Ser Ile Leu Ser Tyr Leu Ala
305     310     315     320
Asn His Phe Asn Ala Pro Leu Ile Ala Trp Met Ala Pro Ile Ile Ala
325     330     335
Ile Ile Ala Ile Thr Lys Ser Phe Leu Gly His Tyr Leu Gly Ala Arg
340     345     350
Glu Gly Phe Asn Gly Met Val Ile Lys Ser Leu Arg Gly Lys Gly Lys
355     360     365
Thr Ile Glu Ile Asn Arg Leu Asn Lys Ile Thr Ala Leu Phe Met Leu
370     375     380
Val Thr Thr Trp Ala Val Ala Thr Leu Asn Pro Ser Ile Leu Gly Met
385     390     395     400
Ile Glu Thr Leu Gly Gly Pro Ile Ile Ala Met Ile Leu Phe Leu Met
405     410     415
Pro Met Tyr Ala Ile Gln Lys Val Pro Ala Met Arg Lys Tyr Ser Gly

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420 425 430
 His Ile Ser Asn Val Phe Val Val Val Met Gly Leu Ile Ala Ile Ser
 435 440 445
 Ala Ile Phe Tyr Ser Leu Phe Ser
 450 455

<210> 8122
 <211> 258
 <212> PRT
 <213> Enterobacter cloacae

<400> 8122
 Thr Glu Gly Arg Leu Ser Val Ala Val His Leu Leu Ile Val Asp Ala
 1 5 10 15
 Leu Asn Leu Ile Arg Arg Ile His Ala Val Gln Gly Thr Pro Cys Lys
 20 25 30
 Asp Thr Cys Leu His Ala Leu Glu Gln Leu Ile Arg His Ser Glu Pro
 35 40 45
 Thr His Ala Val Ala Val Phe Asp Asp Glu Ala Arg Asn Thr Gly Trp
 50 55 60
 Arg His Gln Arg Leu Pro Asp Tyr Lys Ala Gly Arg Ala Pro Met Pro
 65 70 75 80
 Asp Asp Leu His Ala Glu Met Pro Ala Ile Arg Ala Ala Phe Glu Gln
 85 90 95
 Arg Gly Val Pro Cys Trp Gly Ala His Gly Asn Glu Ala Asp Asp Leu
 100 105 110
 Ala Ala Thr Leu Ala Val Lys Val Ala Ser Ala Gly His Gln Ala Thr
 115 120 125
 Ile Val Ser Thr Asp Lys Gly Tyr Cys Gln Leu Leu Ser Pro Thr Ile
 130 135 140
 Arg Ile Arg Asp Tyr Phe Gln Lys Arg Trp Leu Asp Ala Pro Phe Ile
 145 150 155 160
 Ala Ser Glu Phe Gly Val Ser Pro Glu Gln Leu Pro Asp Tyr Trp Gly
 165 170 175
 Leu Ala Gly Ile Ser Ser Ser Lys Val Pro Gly Val Ala Gly Ile Gly
 180 185 190
 Pro Lys Ser Ala Ala Gln Leu Leu Thr Glu Phe Gln Ser Leu Glu Gly
 195 200 205
 Met Tyr Ala Arg Leu Asn Glu Val Pro Asp Lys Trp Arg Lys Lys Leu
 210 215 220
 Glu Ala His Lys Glu Met Ala Phe Ile Cys Arg Glu Val Ala Thr Leu
 225 230 235 240
 Gln Thr Asp Leu Gln Leu Asp Gly Asn Leu Gln Gln Leu Arg Leu Glu
 245 250 255

Arg

<210> 8123
 <211> 278
 <212> PRT
 <213> Enterobacter cloacae

<400> 8123
 Gly Ser Ser Met Ser Asp His Glu Asn Leu Leu Leu Lys Leu Arg Gln
 1 5 10 15
 Glu Ala Ser Gly Tyr Ser Pro Thr Gln Gln Lys Leu Gly Glu Phe Val
 20 25 30
 Leu Asn Asp Pro Ala Arg Val Leu Tyr Leu Thr Ile Thr Glu Leu Ala
 35 40 45
 Arg Glu Ser Gly Thr Ser Glu Ala Ser Val Thr Arg Leu Cys Arg Thr
 50 55 60

Leu Gly Cys Lys Gly Tyr Asn Glu Phe Lys Met Ala Leu Ala Leu Asp
 65 70 75 80
 Ile Gln Gln Gly Leu Pro Glu Arg Gln Ala Gly Asp Ala Ile Asp Asn
 85 90 95
 Val Val Asp Glu Ser Val Gln Ala Leu Gln Asp Thr Ala Lys Leu Leu
 100 105 110
 Asp Arg Ala Gln Leu Glu Gln Ala Thr Leu Ala Leu His Gln Ala Gln
 115 120 125
 Ser Val Gln Ile Tyr Gly Val Ala Ala Ser Ala Ile Leu Gly Glu Tyr
 130 135 140
 Leu His Tyr Lys Leu Leu Arg Leu Gly Lys Pro Ala Gln Leu Phe Ser
 145 150 155 160
 Asp Met His Arg Ala Ala Met Asn Ala Thr Thr Leu Ser Lys Glu Thr
 165 170 175
 Leu Val Val Ala Ile Ser Ser Ser Gly Ser Thr Arg Asp Leu Leu His
 180 185 190
 Val Val Lys Leu Ala Arg Lys Arg Gly Val Lys Val Leu Ala Leu Ser
 195 200 205
 Asn Thr Pro Arg Ser Pro Leu Ala Ser Leu Ser Asp Leu Gln Leu Val
 210 215 220
 Ala Ala Lys Pro Glu Gly Pro Leu Ser Ala Gly Ala Leu Asn Ala Lys
 225 230 235 240
 Val Gly Val Met Leu Leu Val Glu Leu Leu Thr Thr Ser Leu Ile Ala
 245 250 255
 Val Asp Ser His Tyr Gly Asp Val Ser Gln Thr Ala Ser Ala Thr
 260 265 270
 Leu Pro Leu Leu Leu
 275

<210> 8124

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8124

Asn Met Ser Tyr Glu Asn His Gln Ala Leu Thr Gly Leu Thr Leu Gly
 1 5 10 15
 Lys Ser Thr Asp Tyr Arg Asp Thr Tyr Asp Ala Ser Leu Leu Gln Gly
 20 25 30
 Val Pro Arg Ser Leu Asn Arg Asp Pro Leu Gly Leu His Ala Asp Ala
 35 40 45
 Leu Pro Phe Val Gly Gly Asp Ile Trp Thr Leu Tyr Glu Leu Ser Trp
 50 55 60
 Leu Asn Ala Arg Gly Leu Pro Gln Val Ala Val Gly His Val Glu Leu
 65 70 75 80
 Asp Tyr Ala Ser Val Asn Leu Val Glu Ser Lys Ser Phe Lys Leu Tyr
 85 90 95
 Leu Asn Ser Phe Asn Gln Thr Lys Phe Asn Ser Trp Asp Glu Val Gln
 100 105 110
 Gln Thr Leu Glu Arg Asp Leu Ser Ala Cys Ala Gln Gly Asn Val Thr
 115 120 125
 Val Ser Leu Tyr Arg Leu His Glu Leu Glu Gly Gln Pro Ile Ala His
 130 135 140
 Phe His Gly Thr Cys Ile Asp Asp Gln Asp Ile Glu Val Glu Ser Tyr
 145 150 155 160
 Glu Phe Ser Ser Asp Tyr Leu Glu Asn Ala Ala Gly Gly Lys Val Val
 165 170 175
 Asn Glu Thr Leu Val Ser His Leu Leu Lys Ser Asn Cys Leu Ile Thr
 180 185 190
 His Gln Pro Asp Trp Gly Ser Val Gln Ile Gln Tyr Arg Gly Pro Gln
 195 200 205

Ile Asp Arg Glu Lys Leu Leu Arg Tyr Leu Val Ser Phe Arg His His
 210 215 220
 Asn Glu Phe His Glu Gln Cys Val Glu Arg Ile Phe Asn Asp Ile Gln
 225 230 235 240
 Arg Phe Cys Gln Pro Glu Lys Leu Ser Val Tyr Ala Arg Tyr Thr Arg
 245 250 255
 Arg Gly Gly Leu Asp Ile Asn Pro Trp Arg Thr Asn Thr Asp Phe Val
 260 265 270
 Pro Ala Thr Gly Arg Leu Val Arg Gln
 275 280

<210> 8125

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 8125

Thr Ala Ile Thr Val Thr Leu Ala Ser Lys Arg Gln Ala Pro Arg Cys
 1 5 10 15
 Arg Phe Cys Tyr Arg Lys Gln Lys Thr Arg Arg Ser Gly Phe Arg
 20 25 30
 Lys Asn Glu Gly Ser Gly Leu Cys Leu Ala Phe Asp Leu Phe Thr Thr
 35 40 45
 Val Val Arg Cys Phe Phe Ala Gln Arg Phe Phe Asp Thr Asn Gln Leu
 50 55 60
 Val Val Phe Ser Asn Thr Val Arg Thr Ala His Arg Thr Gly Phe Asp
 65 70 75 80
 Leu Ala Ser Ser Gly Thr Asn Ser Gln Val Ser Asp Gly Ser Val Phe
 85 90 95
 Ser Phe Ala Arg Thr Val Arg Asp Asn Arg Gly Val Ala Ser Val Phe
 100 105 110
 Arg His Phe Asp Arg Ser Gln Arg Phe Gly Gln Arg Thr Asp Leu Val
 115 120 125
 Glu Phe Asp Gln Asp Gly Val Asn Asp Ala Phe Leu Asp Ala Phe Phe
 130 135 140
 Gln Asp Leu Gly Val Gly Tyr Glu Gln Ile Val Thr Asn Gln Leu Asp
 145 150 155 160
 Phe Val Ala Gln Tyr Phe Gly Leu Val Cys Glu Thr Ile Pro Val Arg
 165 170 175
 Leu Val Gln Thr Val Phe Asp Arg Asn Asp Trp Val Leu Phe Gly Gln
 180 185 190
 Val Phe Gln Glu Val Gly Glu Leu Phe Arg Gly Glu Arg Phe Val Ala
 195 200 205
 Phe Ala Ser Gln Asn Val Phe Thr Val Phe Val Glu Phe Arg Cys Cys
 210 215 220
 Ala Val His Arg Gln Gly Asp Val Phe Ala Gln Leu Val Ala Cys Cys
 225 230 235 240
 Phe Asn Arg Phe Ser Asp Asn Ser Gln Cys Phe Cys Val Arg Thr Gln
 245 250 255
 Val Trp Arg Val Ala Ala Phe Val Thr Asn Ser Arg Val His Thr Phe
 260 265 270
 Ser Phe Gln Asn Phe Ser Gln Val Val Glu His Phe Arg Thr His Thr
 275 280 285
 Tyr Arg Phe Phe Gln Gly Phe Arg Ala Asn Trp Leu Asn His Glu Phe
 290 295 300
 Leu Asn Ile Asn Val Val Val Cys Val Leu Thr Thr Val Asp Asp Val
 305 310 315 320
 His His Trp Tyr Arg His Arg Val Phe Ala Trp Gly Ala Val Gln Phe
 325 330 335
 Ser Asp Val Leu Glu Gln Trp His Ala Phe Ser Cys Cys Cys Arg Phe
 340 345 350

Gly Val Arg Gln Gly Asn Gly Gln Asp Cys Val Arg Thr Glu Val Arg
 355 360 365
 Phe Val Phe Ser Thr Val Gln Ile Asp His Asp Leu Val Asp Ala Ser
 370 375 380
 Leu Ile Phe Ser Ile Phe Ala Asn Asp Ser Leu Ser Asn Arg Thr Val
 385 390 395 400
 Asn Ser Ala Asn Arg Phe Gln Tyr Ala Phe Ala His Glu Thr Gly Phe
 405 410 415
 Val Ala Ile Thr Gln Phe Gln Arg Phe Ala Gly Thr Cys Arg Ser Thr
 420 425 430

<210> 8126

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 8126

Gln Phe Val Glu Leu Val Glu Val Val Ala Arg Gln Gln Glu Leu Leu
 1 5 10 15
 Arg Leu Phe Gln Ala Tyr Pro Asp Met Phe Gln Leu Val Val Gln Asp
 20 25 30
 Leu Thr Thr Gly Lys Asp Val Leu Val Thr Ile Leu Leu Ala Glu Pro
 35 40 45
 Gly Val Asp Phe Arg Ala Pro Thr Ala Gly Gly Asn Val Thr Glu Val
 50 55 60
 Arg Ile Gln Pro Val Ala Ala Trp Val Trp Leu Leu Leu Gly Asp Asp
 65 70 75 80
 Phe Asn Leu Ile Ala His Leu Glu Leu Val Gly Lys Arg Tyr Asp Thr
 85 90 95
 Ser Ala Asp Leu Arg Pro Asp Ala Thr Val Pro His Ile Ala Val Asp
 100 105 110
 Val Val Gly Glu Ile Glu Arg Arg Gly Ala Cys Arg Gln Ile Asn His
 115 120 125
 Val Pro Phe Arg Gly Lys Asp Val Asp Ala Ile Val Glu Asp Leu Thr
 130 135 140
 Ala His Phe Val Glu His Phe Ala Gly Val Gly His Leu Phe Leu Pro
 145 150 155 160
 Arg Asn Gln Leu Thr Gln Pro Gly Asp Thr Val Leu Val Thr Gly Ala
 165 170 175
 Thr Ala Thr Gly Gly Thr Leu Phe Val Phe Pro Val Arg Arg His Ala
 180 185 190
 Gln Leu Gly Val Phe Val His Leu Phe Gly Thr Asp Leu Asn Phe His
 195 200 205
 Arg Phe Ala Ala Arg Ala Glu His His Gly Met Asp Arg Leu Ile Ala
 210 215 220
 Ile Arg Phe Arg Val Arg Asp Val Val Ile Glu Leu Ile Arg Gln Met
 225 230 235 240
 Ala Glu Met Ser Met His Tyr Pro Gln Arg Gly Ile Ala Val Leu Lys
 245 250 255
 Thr Leu Arg His Asp Thr His Arg Ala His Val Lys Gln Leu Val Lys
 260 265 270
 Gly Glu Val Phe Leu Leu His Phe Ala Pro Asp Ala Val Asp Val Leu
 275 280 285
 Trp Thr Pro Val Asp Leu Gly Ala His Ile Leu Leu Phe His Arg Leu
 290 295 300
 Ala Gln Pro Ala Asp Lys Phe Leu Asp Ile Val Leu Ala Val Asn Ala
 305 310 315 320
 Ala Phe Val Gln Gln Phe Cys Asn Ala Phe Val Phe Arg Arg Met Gln
 325 330 335

Val Ala Glu Ala Val Ile Phe Gln Leu Pro Leu Gln Leu Pro Asp Thr
 340 345 350
 Gln Thr Val Arg Gln Arg Arg Ile Asp Ile Arg Thr Leu Phe Gly Gly
 355 360 365
 Gln Asp Ala Leu Val Phe Arg Arg Ile Leu Tyr Phe Thr Gln Met Gly
 370 375 380
 Asn Pro Phe Gly Gln Leu Asp His His Ala Ala Glu Ile Ile Tyr His
 385 390 395 400
 Arg Gln Gln His Thr Thr Asn Val Ile His Leu Leu Gly Arg Asp Arg
 405 410 415
 Val Ser Leu Arg Gly Phe Lys Leu Thr Asn Gly Cys His Ile Thr His
 420 425 430
 Ala Val Asp Glu Arg His Asp Gly Leu Ala Asp Ala Phe Thr Gln Asp
 435 440 445
 Val Phe Arg His His Val Gly Val Arg Gln Gly Glu Gln Gln Cys Gly
 450 455 460
 Leu
 465

<210> 8127

<211> 923

<212> PRT

<213> Enterobacter cloacae

<400> 8127

Arg Asn Ser Met Thr Asn Tyr Ser Leu Arg Ala Arg Met Met Ile Leu
 1 5 10 15
 Ile Leu Ala Pro Thr Val Leu Ile Gly Leu Leu Leu Ser Ile Phe Phe
 20 25 30
 Val Val His Arg Tyr Asn Asp Leu Gln Arg Gln Leu Glu Asp Ala Gly
 35 40 45
 Ala Ser Ile Ile Glu Pro Leu Ala Val Ser Ser Glu Tyr Gly Met Asn
 50 55 60
 Leu Gln Asn Arg Glu Ser Ile Gly Gln Leu Ile Ser Val Leu His Arg
 65 70 75 80
 Arg His Ser Glu Ile Val Arg Ala Ile Ser Val Tyr Asp Glu His Asn
 85 90 95
 Arg Leu Phe Val Thr Ser Asn Phe His Leu Asp Pro Thr Ser Leu Lys
 100 105 110
 Ile Pro Asp Gly Thr Pro Phe Pro Arg His Leu Thr Val Leu Arg Arg
 115 120 125
 Gly Asp Ile Met Ile Leu Arg Thr Pro Ile Ile Ser Glu Ser Tyr Ser
 130 135 140
 Pro Asp Glu Ser Ala Gln Ser Asp Ala Lys Ser Ser Asn Asn Met Leu
 145 150 155 160
 Gly Tyr Val Ala Leu Glu Leu Asp Leu Lys Ser Val Arg Leu Gln Gln
 165 170 175
 Tyr Lys Glu Ile Phe Ile Ser Gly Val Met Met Leu Phe Cys Ile Gly
 180 185 190
 Ile Ala Leu Ile Phe Gly Trp Arg Leu Met Arg Asp Val Thr Gly Pro
 195 200 205
 Ile Arg Asn Met Val Asn Thr Val Asp Arg Ile Arg Arg Gly Gln Leu
 210 215 220
 Asp Ser Arg Val Glu Gly Phe Met Leu Gly Glu Leu Asp Met Leu Lys
 225 230 235 240
 Asn Gly Ile Asn Ser Met Ala Met Ser Leu Ala Ala Tyr His Glu Glu
 245 250 255
 Met Gln His Asn Val Asp Gln Ala Thr Ser Asp Leu Arg Glu Thr Leu
 260 265 270
 Glu Gln Met Glu Ile Gln Asn Val Glu Leu Asp Leu Ala Lys Lys Arg
 275 280 285

Ala Gln Glu Ala Ala Arg Ile Lys Ser Glu Phe Leu Ala Asn Met Ser
 290 295 300
 His Glu Leu Arg Thr Pro Leu Asn Gly Val Ile Gly Phe Thr Arg Leu
 305 310 315 320
 Thr Leu Lys Ser Glu Leu Asn Pro Thr Gln Arg Asp His Leu His Thr
 325 330 335
 Ile Glu Arg Ser Ala Asn Asn Leu Leu Thr Ile Ile Asn Asp Val Leu
 340 345 350
 Asp Phe Ser Lys Leu Glu Ala Gly Lys Leu Ile Leu Glu Ser Ile Pro
 355 360 365
 Phe Pro Leu Arg Ser Thr Leu Asp Asp Val Val Thr Leu Leu Ala His
 370 375 380
 Ser Ser His Asp Lys Gly Leu Glu Leu Thr Leu Asn Ile Lys Asn Asp
 385 390 395 400
 Val Pro Asp Asn Val Ile Gly Asp Pro Leu Arg Leu Gln Gln Val Ile
 405 410 415
 Thr Asn Leu Val Gly Asn Ala Ile Lys Phe Thr Glu Ser Gly Asn Ile
 420 425 430
 Asp Ile Leu Val Glu Lys Arg Ala Leu Ser Asn Asn Lys Val Gln Ile
 435 440 445
 Glu Val Gln Ile Arg Asp Thr Gly Ile Gly Ile Pro Glu Arg Asp Gln
 450 455 460
 Thr Arg Leu Phe Gln Ala Phe Arg Gln Ala Asp Ala Ser Ile Ser Arg
 465 470 475 480
 Arg His Gly Gly Thr Gly Leu Gly Leu Val Ile Thr Gln Lys Leu Val
 485 490 495
 Lys Glu Met Gly Gly Asp Ile Ser Phe His Ser Gln Pro Asn Arg Gly
 500 505 510
 Ser Thr Phe Trp Phe His Ile Asn Leu Asp Leu Asn Pro Asn Val Gln
 515 520 525
 Thr Asp Gly Pro Val Thr Gly Cys Leu Lys Gly Met Arg Leu Ala Tyr
 530 535 540
 Val Glu Pro Asn Ala Ala Ala Gln Cys Thr Leu Asp Val Leu Ser
 545 550 555 560
 Ser Thr Pro Leu Glu Val Ile Tyr Ser Pro Thr Phe Ser Ala Leu Ala
 565 570 575
 Asn Asp His Tyr Asp Ile Leu Leu Leu Gly Ile Pro Val Thr Phe Thr
 580 585 590
 Gly Glu Leu Thr Met Gln Gln Glu Arg Leu Ala Lys Ala Ala Ser Met
 595 600 605
 Thr Asp Tyr Leu Leu Leu Ala Leu Pro Cys His Ala Gln Ile Asn Ala
 610 615 620
 Glu Glu Leu Lys Asn Asp Gly Ala Ala Ala Cys Leu Leu Lys Pro Leu
 625 630 635 640
 Thr Ala Thr Arg Leu Leu Pro Ala Leu Thr Glu Tyr Cys Arg Leu Thr
 645 650 655
 His Gln Ser Leu Pro Leu Glu Asn Asp Glu His Lys Leu Pro Met Thr
 660 665 670
 Val Met Ala Val Asp Asp Asn Pro Ala Asn Leu Lys Leu Ile Gly Val
 675 680 685
 Leu Leu Glu Asp Gln Val Gln His Val Glu Leu Cys Thr Ser Gly Ala
 690 695 700
 Glu Ala Val Glu Gln Ala Lys Gln Met Gln Phe Asp Leu Ile Leu Met
 705 710 715 720
 Asp Ile Gln Met Pro Gly Met Asp Gly Ile Arg Ala Cys Glu Leu Ile
 725 730 735
 Arg Gln Leu Pro His Gln Gln Gln Thr Pro Val Ile Ala Val Thr Ala
 740 745 750
 His Ala Met Ala Gly Gln Lys Glu Lys Leu Leu Gly Ala Gly Met Asn
 755 760 765
 Asp Tyr Leu Ala Lys Pro Ile Asp Glu Glu Lys Leu His Ser Leu Leu

770	775	780
Leu Arg Tyr Lys Pro Gly	His Ile Gly Gly Thr Tyr Thr Ile Thr Ala	
785	790	795
Glu Ser Pro Glu Ile Ser Val Asn Gln Asn Ala Thr Phe Asp Trp Gln		800
	805	810
Leu Ala Leu Arg Gln Ala Ala Gly Lys Pro Asp Leu Ala Arg Asp Met		815
	820	825
Leu Gln Met Leu Val Asp Phe Leu Pro Glu Ile Arg Asn Lys Val Glu		830
	835	840
Glu Gln Leu Val Gly Glu Asn Pro Glu Gly Leu Leu Glu Ala Ile His		845
	850	855
Lys Leu His Gly Ser Cys Gly Tyr Ser Gly Val Pro Arg Leu Lys Asn		860
	865	870
Leu Cys Gln Leu Leu Glu Gln Gln Leu Arg Ala Gly Thr Pro Glu Ser		875
	885	890
Asp Leu Glu Pro Glu Phe Leu Glu Leu Leu Asp Glu Met Asp Asn Val		895
	900	905
Thr Arg Glu Ala Met Lys Val Leu Gly Ser		910
	915	920

<210> 8128

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 8128

Ser Asn Gly Arg Ile Met Ile Ser Val Phe Asp Ile Phe Lys Ile Gly	
1	5
Ile Gly Pro Ser Ser His Thr Val Gly Pro Met Lys Ala Gly Lys	10
	20
Gln Phe Thr Asp Asp Leu Ile Ala Arg Gly Ile Leu His Asp Ile Thr	25
	35
Arg Val Val Val Asp Val Tyr Gly Ser Leu Ser Leu Thr Gly Lys Gly	40
	50
His His Thr Asp Ile Ala Ile Ile Met Gly Leu Ala Gly Asn Leu Pro	55
65	70
Asp Thr Val Asp Ile Asp Ala Ile Pro Gly Phe Ile Gln Asp Val Asn	75
	85
Thr His Gly Arg Leu Leu Leu Ala Asn Gly Glu His Glu Val Glu Phe	90
	100
Pro Val Asp His Cys Met Asn Phe His Ala Asp Asn Leu Ser Leu His	105
	115
Glu Asn Gly Met Arg Ile Thr Ala Leu Ala Gly Asp Lys Ala Val Tyr	120
	130
Ser Gln Thr Tyr Tyr Ser Ile Gly Gly Gly Phe Ile Val Asp Glu Asp	135
145	150
His Phe Gly Gln Ser Thr Asn Ser Ala Val Asp Val Pro Tyr Pro Tyr	155
	165
Lys Asn Ala Ala Asp Leu Gln Arg His Cys Gln Glu Thr Gly Leu Ser	170
	180
Leu Ser Gly Leu Met Met Lys Asn Glu Leu Ala Leu His Ser Lys Glu	185
	195
Glu Leu Glu Gln His Phe Ala Asn Val Trp Glu Val Met Arg Ser Gly	200
	210
Ile Glu Arg Gly Ile Thr Thr Glu Gly Val Leu Pro Gly Lys Leu Arg	215
225	230
Val Pro Arg Arg Ala Ala Ala Leu Arg Arg Met Leu Val Ser Ala Asp	235
	245
Lys Thr Thr Thr Asp Pro Met Ala Val Val Asp Trp Ile Asn Met Phe	250
	260
Ala Leu Ala Val Asn Glu Glu Asn Ala Ala Gly Gly Arg Val Val Thr	265
	270

275	280	285
Ala Pro Thr Asn Gly Ala Cys Gly Ile Val Pro Ala Val Leu Ala Tyr		
290	295	300
Tyr Asp Lys Phe Ile Arg Glu Val Asn Ala Asn Ser Leu Ala Arg Tyr		
305	310	315
Leu Leu Val Ala Ser Ala Ile Gly Ser Leu Tyr Lys Met Asn Ala Ser		
	325	330
Ile Ser Gly Ala Glu Val Gly Cys Gln Gly Glu Val Gly Val Ala Cys		
	340	345
Ser Met Ala Ala Ala Gly Leu Ala Glu Leu Leu Gly Ala Ser Pro Ala		
	355	360
Gln Val Cys Ile Ala Ala Glu Ile Gly Met Glu His Asn Leu Gly Leu		
	370	375
Thr Cys Asp Pro Val Gly Gly Gln Val Gln Val Pro Cys Ile Glu Arg		
	385	390
Asn Ala Ile Ala Ser Val Lys Ala Val Asn Ala Ala Arg Met Ala Leu		
	405	410
Arg Arg Thr Ser Glu Pro Arg Val Cys Leu Asp Lys Val Ile Glu Thr		
	420	425
Met Tyr Glu Thr Gly Lys Asp Met Asn Ala Lys Tyr Arg Glu Thr Ser		
	435	440
Arg Gly Gly Leu Ala Met Lys Ile Val Thr Cys Asp		
	450	455
		460

<210> 8129

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 8129

Arg Ala Val Leu Arg Arg Ile Ala Arg Arg Arg Gly Asp Ala Ser Val	
1	5
Ile Phe Asp Val Ala Arg His Val Asp Leu Leu Val Gly Val Val Pro	
	20
Ile Val Asn Leu Glu Trp Ile Gln Lys Leu Thr Arg Asp Met Ser Glu	
	35
Arg Gly His Ser Arg Glu Ala Val Met Asp Ser Val Val Arg Ser Met	
	50
Glu Asp Tyr Ile Asn Phe Leu Thr Pro Gln Phe Ser Arg Thr His Ile	
65	70
Asn Phe Gln Arg Val Pro Thr Val Asp Thr Ser Asn Pro Phe Ala Ala	
	85
Lys Ser Ile Leu Ser Leu Asp Glu Ser Phe Val Val Ile His Phe Arg	
	100
Asn Leu Glu Gly Ile Asp Tyr Pro Trp Leu Leu Ala Met Leu Gln Gly	
	115
Ser Phe Ile Ser His Met Asn Thr Leu Val Val Pro Gly Gly Lys Met	
	130
Gly Leu Ala Met Glu Leu Ile Met Thr Pro Leu Val Gln Arg Leu Met	
145	150
Glu Gly Lys Gln Ile Ala	
	165

<210> 8130

<211> 274

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (242)

<220>
 <221>UNSURE
 <222>(243)

<220>
 <221>UNSURE
 <222>(246)

<220>
 <221>UNSURE
 <222>(253)

<220>
 <221>UNSURE
 <222>(255)

<220>
 <221>UNSURE
 <222>(263)

<220>
 <221>UNSURE
 <222>(265)

<400> 8130
 Thr Arg Cys Gly Arg Pro Gln Phe Gln Arg Leu Asp Ile Gly Phe Ser
 1 5 10 15
 Gly Pro Leu Thr Phe Phe Lys Glu Ala Ala Gly Leu Lys Ile Asp Thr
 20 25 30
 Thr Leu Leu Pro Glu Thr Gly Phe Leu Leu Val Gly Glu Phe Phe
 35 40 45
 His Tyr Ala Ser Leu Asn Ser Pro Phe Ala Thr Ser Ile Ser Ser Lys
 50 55 60
 Thr Arg Phe Arg Arg Glu Gly Lys Thr Arg Ala Gly Tyr Ala Arg
 65 70 75 80
 Val Asp Glu Arg Leu Arg Gln His Phe Arg Gly Glu Asn Asp Asp Arg
 85 90 95
 Leu Ser Arg His Ile Leu Val Trp Thr Asp Ile Val Ser Leu Asn Leu
 100 105 110
 Arg Asp Leu Ile Arg His Val His Ala Phe His His Phe Ala Lys His
 115 120 125
 Arg Val Ala Lys Val Ala Leu Thr Val Val Gln Glu Gly Val Ile Ser
 130 135 140
 His Val Glu Glu Glu Leu Ala Gly Gly Ala Val Phe Val Arg Arg Thr
 145 150 155 160
 Arg His Arg Asp Gly Ala Ala Leu Val Gln Gln Ala Val Val Ser Phe
 165 170 175
 Ile Phe Asp Gly Arg Val Arg Leu Phe Leu Leu His Leu Val Lys
 180 185 190
 Thr Ala Thr Leu Asn His Lys Ala Arg Asp His Ala Val Glu Cys Gly
 195 200 205
 Val Val Ile Lys Thr Thr Val His Val Val Glu Glu Val Phe His Arg
 210 215 220
 Asn Arg Gly Phe Leu Ala Ile Gln Leu Gln Leu Asn Ile Pro Arg Lys
 225 230 235 240
 Ser Xaa Xaa Gln Asp Xaa Arg Val Ser Phe Gly Cys Xaa Arg Xaa Arg
 245 250 255
 Gly Asn Gly Lys Lys Ser Xaa Pro Xaa Cys Asn Asn Arg Pro Leu Leu
 260 265 270
 Ile

<210> 8131
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<400> 8131
 Met Met Lys Asp Thr Thr Ile Glu Ala Arg Leu Ala Glu Leu Glu Ser
 1 5 10 15
 Arg Leu Ala Phe Gln Asp Ile Thr Ile Glu Glu Leu Asn Gln Thr Val
 20 25 30
 Thr Ala His Glu Leu Glu Met Ala Lys Leu Arg Asp His Met Arg Leu
 35 40 45
 Leu Thr Glu Lys Leu Lys Ala Thr Gln Pro Ser Asn Ile Ala Ser Gln
 50 55 60
 Ser Glu Glu Thr Pro Pro His Tyr
 65 70

<210> 8132
 <211> 218
 <212> PRT
 <213> Enterobacter cloacae

<400> 8132
 Gly Val Lys Lys Ala Gly Leu Ser Arg Phe Phe Ile Phe Arg Ser Thr
 1 5 10 15
 Glu Ser Val Ala Thr Ala Ala Ala Val Thr Ala Thr Thr Thr Val
 20 25 30
 Ala Val Val Met Thr Met Val Val Ala Val Thr Thr Ala Ala Val
 35 40 45
 Met Ala Val Ile Val Val Met Val Val Thr Val Arg Thr Val Asn Val
 50 55 60
 Ala Met Ser Gln Leu Phe Phe Ser Arg Phe Thr Asp Arg Asn Asn Phe
 65 70 75 80
 Tyr Val Glu Leu Gln Val Leu Thr Arg Gln His Val Val Ala Val Asn
 85 90 95
 His Asn Val Val Val Phe Asn Phe Ser Asp Phe Asn Arg Asn Arg Thr
 100 105 110
 Leu Val Ser Phe Arg Gln Glu Ala His Ala Asn Leu Gln Leu Val Asn
 115 120 125
 Ala His Glu Tyr Val Phe Arg Asn Ala Leu Asn Gln Val Val Val Ile
 130 135 140
 Leu Thr Val Ser Val Val Arg Ala Tyr Ser Asn Val Glu Phe Val Ala
 145 150 155 160
 Asn Phe Met Ala Phe Gln Arg Arg Phe Gln Ala Gly Asn Gln Gly Thr
 165 170 175
 Val Thr Met Gln Val Val Gln Arg Arg Thr His Arg Arg Leu Ile Asn
 180 185 190
 Gln His Thr Val Phe Cys Thr Tyr Leu Ile Gly Gln Ala Asp His Gln
 195 200 205
 Val Phe Cys Tyr Phe His Asp Ile Ser
 210 215

<210> 8133
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<400> 8133
 Lys Met Ile Ile Pro Trp Gln Asp Leu Ser Pro Asp Thr Leu Asp Asn

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1           5           10           15
Leu Ile Glu Ser Phe Val Leu Arg Glu Gly Thr Asp Tyr Gly Glu His
                20           25           30
Glu Arg Ser Leu Glu Gln Lys Val Asn Asp Val Lys Arg Gln Leu Lys
                35           40           45
Ser Gly Asp Val Val Leu Val Trp Ser Glu Leu His Glu Thr Val Asn
                50           55           60
Ile Met Pro Arg Asn Ala Phe His Gly
65                70

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<210> 8134

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 8134

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Ser Leu His Phe Ser Ser Gln Gly Val Ala Met Ser Ala Arg His Pro
1           5           10           15
Val Ile Ala Val Thr Gly Ser Ser Gly Ala Gly Thr Thr Thr Ser
                20           25           30
Leu Ala Phe Arg Lys Ile Phe Ala Gln Leu Asn Leu Arg Ala Ala Glu
                35           40           45
Val Glu Gly Asp Ser Phe His Arg Tyr Thr Arg Pro Glu Met Asp Met
                50           55           60
Ala Ile Arg Lys Ala Arg Asp Leu Gly Lys His Ile Ser Tyr Phe Gly
                65           70           75           80
Pro Glu Ala Asn Asp Phe Gly Leu Leu Glu Gln Thr Phe Arg Glu Tyr
                85           90           95
Gly Gln Ser Gly Thr Gly Gln Ser Arg Lys Tyr Leu His Thr Tyr Asp
                100           105           110
Glu Ala Val Pro Trp Asn Gln Val Pro Gly Thr Phe Thr Pro Trp Gln
                115           120           125
Pro Leu Pro Glu Pro Thr Asp Val Leu Phe Tyr Glu Gly Leu His Gly
                130           135           140
Gly Val Val Thr Pro Gln Ser Tyr Ser Thr Trp Arg Ala Thr Trp Ile
                145           150           155           160
Cys Trp Trp Gly Trp Cys Arg Leu Leu Thr Leu Ser Gly Ser Arg Ser
                165           170           175

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<210> 8135

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 8135

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Gln Arg Met Val Leu Gly Lys Pro Gln Thr Asp Pro Thr Leu Glu Trp
1           5           10           15
Phe Leu Ser His Cys His Ile His Lys Tyr Pro Ser Lys Ser Thr Leu
                20           25           30
Ile His Gln Gly Glu Lys Ala Glu Thr Leu Tyr Tyr Ile Val Lys Gly
                35           40           45
Ser Val Ala Val Leu Ile Lys Asp Glu Glu Gly Lys Glu Met Ile Leu
                50           55           60
Ser Tyr Leu Asn Gln Gly Asp Phe Ile Gly Glu Leu Gly Leu Phe Glu
                65           70           75           80
Glu Gly Gln Glu Arg Ser Ala Trp Val Arg Ala Lys Thr Ala Cys Glu
                85           90           95
Val Ala Glu Ile Ser Tyr Lys Lys Phe Arg Gln Leu Ile Gln Val Asn
                100           105           110

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Pro Asp Ile Leu Met Arg Leu Ser Ser Gln Met Ala Arg Arg Leu Gln
 115 120 125
 Val Thr Ser Glu Lys Val Gly Asn Leu Ala Phe Leu Asp Val Thr Gly
 130 135 140
 Arg Ile Ala Gln Thr Leu Leu Asn Leu Ala Lys Gln Pro Asp Ala Met
 145 150 155 160
 Thr His Pro Asp Gly Met Gln Ile Lys Ile Thr Arg Gln Glu Ile Gly
 165 170 175
 Gln Ile Val Gly Cys Ser Arg Glu Thr Val Gly Arg Ile Leu Lys Met
 180 185 190
 Leu Glu Asp Gln Asn Leu Ile Ser Ala His Gly Lys Thr Ile Val Val
 195 200 205
 Tyr Gly Thr Arg
 210

<210> 8136

<211> 715

<212> PRT

<213> Enterobacter cloacae

<400> 8136

Phe Arg Ser Asn Gly Val Pro Pro Gln Gly Gly Thr Pro Phe Leu Ser
 1 5 10 15
 Leu Leu Leu Met Trp Arg Arg Leu Ile Tyr His Pro Glu Val Asn Tyr
 20 25 30
 Ala Leu Arg Gln Thr Leu Val Leu Cys Leu Pro Val Ala Val Gly Leu
 35 40 45
 Ile Leu Gly His Leu Gln Gln Gly Leu Leu Phe Ser Leu Val Pro Ala
 50 55 60
 Cys Cys Asn Ile Ala Gly Leu Asp Thr Pro His Lys Arg Phe Phe Lys
 65 70 75 80
 Arg Leu Ile Ile Gly Gly Cys Leu Phe Ala Gly Cys Ser Leu Ala Val
 85 90 95
 Gln Leu Leu Leu Ala Arg Asp Ile Pro Leu Pro Leu Ile Leu Thr Val
 100 105 110
 Leu Ala Met Thr Leu Gly Val Thr Ala Glu Ile Ser Ser Leu His Ala
 115 120 125
 Arg Leu Leu Pro Ala Ser Leu Ile Ala Ala Ile Phe Thr Leu Ser Leu
 130 135 140
 Ala Gly Asn Met Pro Val Trp Glu Pro Leu Leu Ile Tyr Ala Leu Gly
 145 150 155 160
 Thr Leu Trp Tyr Gly Leu Phe Asn Trp Phe Trp Phe Trp Leu Trp Arg
 165 170 175
 Glu Gln Pro Leu Arg Glu Ser Leu Ser Leu Tyr Val Gln Leu Ala
 180 185 190
 Glu Tyr Cys Glu Ala Lys Tyr Thr Leu Leu Thr Gln His Thr Asp Pro
 195 200 205
 Glu Lys Ser Leu Pro Pro Leu Leu Ala Arg Gln Gln Lys Val Val Asp
 210 215 220
 Leu Ile Ser Gln Cys Tyr Gln Gln Leu His Met Leu Ala Ala Asn Lys
 225 230 235 240
 Asn His Glu Tyr Lys Arg Leu Leu Arg Ile Phe Gln Val Gly Leu Asp
 245 250 255
 Leu Gln Glu His Ile Ser Val Ser Leu His Asn Pro Glu Glu Val Gln
 260 265 270
 Lys Leu Val Glu Arg Ser His Ala Glu Ala Val Ile Arg Trp Asn Ala
 275 280 285
 Gln Thr Val Ala Ala Arg Leu Arg Val Leu Ala Asp Asp Ile Leu Tyr
 290 295 300
 His Arg Tyr Pro Thr Arg Phe Asn Met Asp Lys Gln Leu Gly Ala Leu
 305 310 315 320

Glu Lys Ile Ala Arg Gln His Ala Asp Asn Pro Val Gly Gln Phe Ala
 325 330 335
 Ala Trp His Phe Ser Arg Ile Ala Arg Val Leu Arg Thr Gln Arg Pro
 340 345 350
 Leu Tyr Ala Arg Asp Leu Met Ala Asp Lys Gln Lys Arg Leu Pro Leu
 355 360 365
 Leu Pro Ala Leu Lys Ser Tyr Leu Ser Leu Lys Ser Ser Ala Leu Arg
 370 375 380
 Asn Ala Ala Arg Ile Ser Val Met Leu Ser Ile Ala Ser Leu Met Gly
 385 390 395 400
 Met Ala Leu His Leu Pro Lys Pro Tyr Trp Ile Leu Met Thr Val Leu
 405 410 415
 Phe Val Thr Gln Asn Gly Tyr Gly Ala Thr Arg Val Arg Ile Leu His
 420 425 430
 Arg Ala Gly Gly Thr Met Ala Gly Leu Ile Ile Ala Gly Val Thr Leu
 435 440 445
 His Phe His Val Pro Glu Gly Tyr Thr Leu Ala Gly Met Leu Ala Ile
 450 455 460
 Thr Leu Val Ser Tyr Leu Ile Ile Arg Lys Asn Tyr Gly Trp Ala Met
 465 470 475 480
 Val Gly Phe Thr Val Thr Ala Val Tyr Thr Leu Gln Leu Leu Thr Leu
 485 490 495
 Asn Gly Glu Gln Phe Ile Ile Ala Arg Leu Val Asp Thr Leu Ile Gly
 500 505 510
 Cys Leu Ile Ala Phe Gly Gly Met Val Trp Leu Trp Pro Gln Trp Gln
 515 520 525
 Ser Gly Leu Leu Arg Gln Asn Ala His Asp Ala Leu Glu Ala Asp Gln
 530 535 540
 Gln Ala Ile Arg Leu Ile Leu Ser Asp Asp Pro Gln Pro Ser Pro Leu
 545 550 555 560
 Ala Tyr Glu Arg Met Lys Val Asn Gln Ala His Asn Ala Leu Phe Asn
 565 570 575
 Ser Leu Asn Gln Ala Met Gln Glu Pro Gly Phe Asn Ala His Tyr Leu
 580 585 590
 Ala Asp Met Lys Leu Trp Val Thr His Ser Gln Phe Ile Val Glu His
 595 600 605
 Ile Asn Ala Met Thr Thr Leu Ala Arg Glu His Thr Met Leu Thr Pro
 610 615 620
 Asp Leu Ala Gln Arg Tyr Leu Gln Ser Cys Glu Ile Ala Leu Gln Arg
 625 630 635 640
 Cys Gln Gln Arg Leu Glu Tyr Asp Ala Pro Gly Glu Ser Gly Asp Ser
 645 650 655
 Asn Ile Leu Glu Ala Pro Glu Thr Leu Thr His Gly Pro Met Ser Thr
 660 665 670
 Leu Glu Gln His Leu Gln Arg Val Leu Gly His Leu Asn Thr Met His
 675 680 685
 Thr Ile Ser Ser Val Ala Trp Arg Gln Arg Pro His His Gly Ile Trp
 690 695 700
 Leu Thr Arg Arg Leu Lys Arg Thr Ala Tyr
 705 710 715

<210> 8137

<211> 646

<212> PRT

<213> Enterobacter cloacae

<400> 8137

Gln Ile Asn Ile Val Gly Thr Tyr Gly Ala Ser Met Ile Val Phe Ser
 1 5 10 15
 Ser Leu Gln Ile Arg Arg Gly Val Arg Val Leu Leu Asp Asn Ala Thr
 20 25 30

Ala Thr Ile Asn Pro Gly Gln Lys Val Gly Leu Val Gly Lys Asn Gly
 35 40 45
 Cys Gly Lys Ser Thr Leu Leu Ala Leu Leu Lys Asn Glu Ile Ser Ala
 50 55 60
 Asp Gly Gly Asn Phe Thr Phe Pro Gly Asn Trp Gln Leu Ala Trp Val
 65 70 75 80
 Asn Gln Glu Thr Pro Ala Leu Ser Glu Pro Ala Leu Asp Tyr Val Ile
 85 90 95
 Asp Gly Asp Arg Glu Tyr Arg Lys Leu Glu Ala Glu Leu Asn Ala Ala
 100 105 110
 Asn Glu Arg Asn Asp Gly His Ala Ile Ala Thr Val His Gly Lys Leu
 115 120 125
 Asp Ala Ile Asp Ala Trp Thr Ile Arg Ser Arg Ala Ser Ser Leu Leu
 130 135 140
 His Gly Leu Gly Phe Ser Asn Glu Gln Leu Glu Arg Pro Val Ser Asp
 145 150 155 160
 Phe Ser Gly Gly Trp Arg Met Arg Leu Asn Leu Ala Gln Ala Leu Ile
 165 170 175
 Cys Arg Ser Asp Leu Leu Leu Leu Asp Glu Pro Thr Asn His Leu Asp
 180 185 190
 Leu Asp Ala Val Ile Trp Leu Glu Lys Trp Leu Lys Ser Tyr Gln Gly
 195 200 205
 Thr Leu Ile Leu Ile Ser His Asp Arg Asp Phe Leu Asp Pro Val Val
 210 215 220
 Asp Lys Ile Ile His Ile Glu Gln Gln Ser Met Phe Glu Tyr Thr Gly
 225 230 235 240
 Asn Tyr Ser Ser Phe Glu Arg Gln Arg Ala Thr Arg Leu Ala Gln Gln
 245 250 255
 Gln Ala Met Tyr Glu Ser Gln Gln Gln Arg Val Ala His Leu Gln Ser
 260 265 270
 Phe Val Asp Arg Phe Lys Ala Lys Ala Ser Lys Ala Lys Gln Ala Gln
 275 280 285
 Ser Arg Ile Lys Met Leu Glu Arg Met Glu Met Ile Ala Pro Ala His
 290 295 300
 Val Asp Asn Pro Phe His Phe Ser Phe Arg Glu Pro Glu Ser Leu Pro
 305 310 315 320
 Asn Pro Leu Leu Lys Met Glu Lys Val Ser Ala Gly Tyr Gly Asp Arg
 325 330 335
 Ile Ile Leu Asp Ser Ile Lys Leu Asn Leu Val Pro Gly Ser Arg Ile
 340 345 350
 Gly Leu Leu Gly Arg Asn Gly Ala Gly Lys Ser Thr Leu Ile Lys Leu
 355 360 365
 Leu Ala Gly Glu Leu Asn Pro Val Ser Gly Glu Ile Gly Leu Ala Lys
 370 375 380
 Gly Ile Lys Leu Gly Tyr Phe Ala Gln His Gln Leu Glu Phe Leu Arg
 385 390 395 400
 Ala Asp Glu Ser Pro Ile Gln His Leu Ala Arg Leu Ala Pro Gln Glu
 405 410 415
 Met Glu Gln Lys Leu Arg Asp Tyr Leu Gly Gly Phe Gly Phe Gln Gly
 420 425 430
 Asp Lys Val Thr Glu Asn Thr Ala Arg Phe Ser Gly Gly Glu Lys Ala
 435 440 445
 Arg Leu Val Leu Ala Leu Ile Val Trp Gln Arg Pro Asn Leu Leu Leu
 450 455 460
 Leu Asp Glu Pro Thr Asn His Leu Asp Leu Asp Met Arg Gln Ala Leu
 465 470 475 480
 Thr Glu Ala Leu Ile Glu Phe Glu Gly Ala Leu Val Val Val Ser His
 485 490 495
 Asp Arg His Leu Ile Arg Ser Thr Thr Asp Asp Leu Tyr Leu Val His
 500 505 510
 Gly Gly Lys Val Glu Pro Phe Asp Gly Asp Leu Glu Asp Tyr Gln Gln

515	520	525
Trp Leu Thr Asp Val Gln Lys	Gln Glu Asn Gln Pro	Glu Glu Ser Ala
530	535	540
Lys Asp Asn Ala Asn Ser Ala	Gln Ala Arg Lys Asp	Gln Lys Arg Arg
545	550	555
Glu Ala Glu Leu Arg Thr Gln	Thr Gln Pro Leu Arg Lys	Glu Ile Ala
565	570	575
Arg Leu Glu Lys Glu Met Glu	Lys Leu Asn Ala Thr Leu	Ala Ala Val
580	585	590
Glu Glu Lys Leu Gly Asp Ser	Glu Leu Tyr Asp Gln Ser	Arg Lys Ala
595	600	605
Glu Leu Thr Asp Cys Leu Gln	Thr Gln Ala Lys Thr	Lys Ser Ser Leu
610	615	620
Glu Glu Cys Glu Met Ala Trp	Leu Asp Ala Gln Glu	Gln Leu Glu Ala
625	630	635
Met Leu Gln Ala Asp		640
645		

<210> 8138

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 8138

His Ala Gly Arg Val Met Ser Phe Asp Thr Thr Ser Glu Ile Thr Phe	
1	5 10 15
Arg Lys Leu Ser Ile Phe Met Thr Phe Met Glu Lys Gly Asn Ile Ala	
20	25 30
Arg Thr Ala Glu Thr Leu Gly Leu Ser Gly Val Ser Val His Arg Ala	
35	40 45
Leu His Thr Leu Glu Glu Asn Val Arg Cys Pro Leu Phe Ala His Lys	
50	55 60
Gly Arg Asn Leu Ile Ala Leu Pro Ser Ala Trp Thr Leu Leu Glu Tyr	
65	70 75 80
Cys Gln Glu Val Met Gln Val Met Glu Arg Gly Leu Glu Glu Ser Arg	
	85 90 95
Lys Ile Ala Gly Ile Gly Gln Gly Arg Leu Arg Val Gly Thr Leu Tyr	
	100 105 110
Ser Leu Thr Leu Glu Thr Val Pro Arg Leu Ile Met Gly Met Lys Leu	
	115 120 125
Arg Arg Pro Asp Leu Glu Met Asp Leu Thr Met Gly Ser Asn Glu Thr	
130	135 140
Leu Leu His Met Leu Asp Glu Gly Ser Leu Asp Ala Ile Leu Ile Ser	
145	150 155 160
Ile Ser Glu Ser Asp Ile Asp Arg Asn Ser Leu Glu Val Leu Pro Leu	
	165 170 175
Phe His Asp Asp Ile Phe Leu Ala Ala Pro Ala Ser Ala Thr Leu Asn	
	180 185 190
Thr Ser Gly Pro Ala Asp Leu Arg Asp Tyr Lys Asp Gln Lys Phe Val	
	195 200 205
Ala Leu Ala Glu Gly Phe Ala Thr Tyr Ala Gly Phe Gln Glu Ala Phe	
210	215 220
His Ile Ala Gly Phe Glu Pro Glu Ile Val Thr Arg Val Asn Asp Ile	
225	230 235 240
Phe Ser Met Leu Ser Leu Val Gln Ala Gly Val Gly Phe Thr Leu Met	
	245 250 255
Pro Gly Arg Met Lys Lys Val Tyr Glu Asn Ser Val Gln Leu Leu Lys	
	260 265 270
Leu Ala Glu Pro Tyr Gln Met Gln Gln Leu Ile Ala Ile Val Phe Ala	
	275 280 285
Arg Asn Arg Glu Gln Asp Pro Ser Leu Arg Ala Leu Ala Ala Glu Gly	

290 295 300
 Arg Met Tyr Ala Arg Ser Leu Gln Asp Ser Ala
 305 310 315

<210> 8139
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 8139
 Phe Leu Thr Arg Ile Ser Ile Ala Leu Met Thr Gln Ile Ile Pro Ser
 1 5 10 15
 Asp Phe Asp Ile Ala Ala Glu Glu Ser Ala Glu Phe Val Pro Met Arg
 20 25 30
 Gly Val Ala Asn Pro His Leu Gln Thr Met Leu Pro Arg Leu Ile Arg
 35 40 45
 Arg Lys Val Gln Phe Thr Pro His Trp Gln Arg Leu Asp Leu Pro Asp
 50 55 60
 Gly Asp Phe Leu Asp Leu Ala Trp Ser Glu Asp Pro Asp Arg Ala Arg
 65 70 75 80
 His Lys Pro Arg Leu Val Val Phe His Gly Leu Glu Gly Ser Leu His
 85 90 95
 Ser Pro Tyr Ala His Gly Leu Ile Glu Ala Ala Lys Ala Arg Gly Trp
 100 105 110
 Leu Gly Val Val Met His Phe Arg Gly Cys Ser Gly Glu Pro Asn Arg
 115 120 125
 Gln Lys Arg Ile Tyr His Ser Gly Glu Thr Glu Asp Gly Thr Trp Phe
 130 135 140
 Leu Arg Trp Leu Arg Asp Asn Phe Gly Glu Ala Pro Thr Ala Ala Val
 145 150 155 160
 Gly Tyr Ser Leu Gly Gly Asn Met Leu Ala Cys Leu Leu Ala Lys Glu
 165 170 175
 Ser Asp Ala Val Pro Leu Asp Ala Ala Val Ile Val Ser Ala Pro Phe
 180 185 190
 Met Leu Glu Gln Cys Ser Tyr His Met Glu Lys Gly Phe Ser Arg Val
 195 200 205
 Tyr Gln Arg Tyr Leu Leu Asn Leu Leu Lys Ala Asn Ala Ala Arg Lys
 210 215 220
 Leu Lys Ala Tyr Pro Asp Thr Leu Pro Val Thr Leu Gln Gln Leu Lys
 225 230 235 240
 Arg Val Lys Arg Leu Arg Glu Phe Asp Asp Leu Ile Thr Ser Lys Ile
 245 250 255
 His Gly Phe Ala Asp Ala Ile Asp Tyr Arg Gln Cys Ser Ala Met
 260 265 270
 Pro Leu Leu Asn Gln Ile Thr Lys Pro Thr Leu Ile Ile His Ala Lys
 275 280 285
 Asp Asp Pro Phe Met Asp His His Ser Ile Pro Ala Pro Asp His Leu
 290 295 300
 Pro Ala Asn Val Glu Tyr Gln Leu Thr Gln Phe Gly Gly His Val Gly
 305 310 315 320
 Phe Val Gly Gly Thr Leu Arg Arg Pro Lys Met Trp Leu Glu Thr Arg
 325 330 335
 Ile Pro Asp Trp Leu Thr Ala Tyr Leu Asp Gly Lys Lys
 340 345 350

<210> 8140
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 8140

Leu Lys Ala Leu Ser Cys Ala Lys Ala Pro Ile Met Val Asn Met Asn
 1 5 10 15
 Val Arg Leu Asn Lys Arg Ser Thr Met Leu Ser Ala Ser Leu Lys Ala
 20 25 30
 Ala Thr Trp Cys Trp Tyr Gly Pro Asn Cys Met Arg Arg Ser Ile Ser
 35 40 45
 Cys Pro Ala Thr Arg Phe Met Ala Asp Leu Tyr Thr Phe Pro Val Arg
 50 55 60
 Glu Leu Leu Cys Leu Pro Asp Ile Arg Leu Leu Pro Leu Arg Val Arg
 65 70 75 80
 Val Gly Arg Glu Pro Leu Pro Pro Ala Ser Pro Ser Ala Arg Ser Ser
 85 90 95
 Pro Ser Leu Thr Tyr Gly Arg Pro Arg
 100 105

<210> 8141

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 8141

Cys Ser Asn Gln Gln Trp Pro Val Val Ala Glu Gly Tyr Ala Leu Phe
 1 5 10 15
 Ala Val Ser Pro Asp Ala Met Ala Ala Lys Gly Asp Pro Gln Val Leu
 20 25 30
 Met Asn Thr Phe Ala Gly Asn Ile Glu Leu Glu Leu Asp Ser Gln Lys
 35 40 45
 Ala Pro Val Ser Val Lys Asn Phe Leu Asp Tyr Val Asn Ser Gly Phe
 50 55 60
 Tyr Asn Asn Thr Thr Phe His Arg Val Ile Pro Gly Phe Met Ile Gln
 65 70 75 80
 Gly Gly Gly Phe Asn Glu Gln Met Gln Gln Lys Gln Pro Asn Pro Pro
 85 90 95
 Ile Lys Asn Glu Ala Asp Asn Gly Leu Leu Asn Lys Arg Gly Thr Ile
 100 105 110
 Ser Met Ala Arg Thr Ala Asp Lys Asp Ser Ala Thr Ser Gln Phe Phe
 115 120 125
 Leu Asn Val Ala Asp Asn Ala Phe Leu Asp His Gly Gln Arg Asp Phe
 130 135 140
 Gly Tyr Ala Val Phe Gly Lys Val Val Lys Gly Met Asp Val Ala Asp
 145 150 155 160
 Lys Ile Ser Gln Val Gln Thr His Asp Val Gly Pro Tyr Gln Asn Val
 165 170 175
 Pro Thr Lys Pro Val Val Ile Leu Ser Ala Lys Val Leu Pro
 180 185 190

<210> 8142

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 8142

Ser Phe Val His Thr Gly Ile Ser Cys Pro Cys Leu Ser Ala Leu Pro
 1 5 10 15
 Ala Lys Ala Arg Phe Ala Ala Tyr Thr Cys Gly Lys Arg Thr Ile Gln
 20 25 30
 Gly Gly Val Val Lys Lys Leu Thr Asp Lys Gln Lys Ser Arg Leu Trp
 35 40 45
 Glu Gln Gln Arg Ser Val Asn Phe Gln Ala Ser Cys Leu Leu Glu Lys
 50 55 60
 Gly Lys Gly Pro Ala Glu Pro Asp Ile Glu Thr Leu Glu Leu Gly Pro


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65          70          75          80
Ser Ala Pro Gly Leu Pro His Leu Cys Leu Ile His Arg His Leu Phe
      85          90          95
Arg Asn Glu Met Lys Gly Ala Gly Glu Leu Arg Thr Ala Glu Ile Ser
      100         105         110
Lys Gly Asp Ile Pro Phe Cys His Phe Glu Tyr Ile Glu Lys Val Gly
      115         120         125
Asn Glu Leu Met Ala Ser Leu Glu Ser Asp Lys Tyr Leu Val Gly Leu
      130         135         140
Gln Lys Glu Glu Phe Thr Asp Arg Ile Ser His Tyr Tyr Cys Glu Ile
      145         150         155         160
Asn Met Leu His Pro Phe Met Ser Gly Asn Gly Val Ala Gln Arg Ile
      165         170         175
Phe Phe Glu Gln Leu Ala Ile His Ala Gly Tyr Val Leu Asn Trp Gln
      180         185         190
Gly Ile Asp Pro Asp Asp Trp Ala Ala Asn Gln Ser Gly Ala Met
      195         200         205
Gly Asp Leu Thr Ala Leu Asn Val Ile Phe Ala Lys Val Val Ser Glu
      210         215         220
Ala Arg Glu Ser Ala
225          230

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<210> 8143

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 8143

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Asn Arg Ala Ala Ile Phe Ser Gly Ala Ala Met Ile Leu Leu Ile Asp
1          5          10          15
Asn Tyr Asp Ser Phe Thr Trp Asn Leu Tyr Gln Tyr Phe Cys Glu Leu
      20          25          30
Gly Ala Glu Val Val Val Arg Arg Asn Asp Glu Ile Ala Leu Asp Asp
      35          40          45
Ile Asp Ala Leu Ala Pro Gln Lys Ile Val Ile Ser Pro Gly Pro Cys
      50          55          60
Thr Pro Ser Glu Ser Gly Ile Ser Leu Ala Val Ile Gln His Tyr Ala
65          70          75          80
Gly Lys Leu Pro Ile Leu Gly Val Cys Leu Gly His Gln Ala Ile Ala
      85          90          95
Gln Val Phe Gly Ala Thr Ile Val Arg Ala Ala Lys Val Met His Gly
      100         105         110
Lys Thr Ser Pro Ile Thr His Thr Gly Thr Gly Ala Phe Leu Gly Leu
      115         120         125
Asn Asn Pro Leu Thr Val Thr Arg Tyr His Ser Leu Ile Ile Asp Pro
      130         135         140
Pro Thr Leu Pro Ala Cys Phe Glu Val Thr Ala Trp Ser Glu Thr Gln
      145         150         155         160
Glu Ile Met Gly Ile Arg His Arg Glu Tyr Asp Leu Glu Gly Val Gln
      165         170         175
Phe His Pro Glu Ser Ile Leu Ser Glu Gln Gly His Ala Leu Leu Ala
      180         185         190
Asn Phe Leu Asn Arg
195

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<210> 8144

<211> 422

<212> PRT

<213> Enterobacter cloacae

<400> 8144

Leu Tyr Phe His Asn Cys Asp Ile Lys Met Asp Gly His Asp Met
 1 5 10 15
 Ala Thr Glu Gln Pro Ala Ile Thr Arg Ala Thr Phe Asp Glu Val Ile
 20 25 30
 Leu Pro Ile Tyr Ala Pro Ala Glu Phe Ile Pro Val Lys Gly Arg Gly
 35 40 45
 Ser Arg Val Trp Asp Gln Gln Gly Asn Glu Tyr Val Asp Phe Ala Gly
 50 55 60
 Gly Ile Ala Val Thr Ala Leu Gly His Cys His Pro Ala Leu Val Asp
 65 70 75 80
 Ala Leu Lys Thr Gln Gly Glu Thr Leu Trp His Thr Ser Asn Val Phe
 85 90 95
 Thr Asn Glu Pro Ala Leu Arg Leu Gly Arg Lys Ile Ile Asp Ala Thr
 100 105 110
 Phe Ala Glu Arg Val Leu Phe Met Asn Ser Gly Thr Glu Ala Asn Glu
 115 120 125
 Thr Ala Phe Lys Leu Ala Arg Tyr Tyr Ala Thr Thr Arg His Ser Pro
 130 135 140
 Tyr Lys Thr Lys Ile Ile Ala Phe His Asn Ala Phe His Gly Arg Ser
 145 150 155 160
 Phe Phe Thr Val Ser Val Gly Gly Gln Pro Lys Tyr Ser Asp Gly Phe
 165 170 175
 Gly Pro Lys Pro Ala Asp Ile Ile His Val Pro Phe Asn Asp Leu His
 180 185 190
 Ala Val Lys Ala Val Met Asp Asp His Thr Cys Ala Val Val Val Glu
 195 200 205
 Pro Ile Gln Gly Glu Gly Gly Val Thr Ala Ala Thr Pro Glu Phe Leu
 210 215 220
 Gln Gly Leu Arg Glu Leu Cys Asp Glu His Gln Ala Leu Leu Val Phe
 225 230 235 240
 Asp Glu Val Gln Cys Gly Met Gly Arg Thr Gly Asp Leu Phe Ala Tyr
 245 250 255
 Met His Tyr Gly Val Thr Pro Asp Ile Leu Thr Ser Ala Lys Ala Leu
 260 265 270
 Gly Gly Gly Phe Pro Val Ser Ala Val Leu Thr Thr Gln Asp Ile Ala
 275 280 285
 Ser Ala Phe His Val Gly Ser His Gly Ser Thr Tyr Gly Gly Asn Pro
 290 295 300
 Leu Ala Cys Ala Val Ala Gly Ala Ala Phe Asp Ile Ile Asn Thr Pro
 305 310 315 320
 Asp Val Leu Asn Gly Val Asn Ala Lys Arg Asp Leu Phe Val Lys His
 325 330 335
 Leu Gln Gln Ile Asp Glu Gln Phe Asp Val Phe Ser Glu Ile Arg Gly
 340 345 350
 Met Gly Leu Leu Ile Gly Ala Glu Leu Lys Pro Gln Tyr Lys Gly Arg
 355 360 365
 Ala Arg Asp Phe Leu His Ala Ala His Glu Gly Val Met Val Leu
 370 375 380
 Asn Ala Gly Pro Asp Val Met Arg Phe Ala Pro Ser Leu Val Val Glu
 385 390 395 400
 Asp Lys Asp Ile Glu Asp Gly Leu Thr Arg Phe Ala Ala Val Ala
 405 410 415
 Lys Ile Val Ser Gly
 420

<210> 8145

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 8145

Val Asn Met Gln Ala Arg Val Lys Trp Val Glu Gly Leu Thr Phe Leu
 1 5 10 15
 Gly Glu Ser Ala Ser Gly His Gln Val Leu Met Asp Gly Asn Ser Gly
 20 25 30
 Asp Lys Ala Pro Ser Pro Met Glu Met Val Leu Met Ala Ala Gly Gly
 35 40 45
 Cys Ser Ala Ile Asp Val Val Ser Ile Leu Gln Lys Gly Arg His Gly
 50 55 60
 Val Thr Asp Cys Glu Val Lys Leu Thr Ser Glu Arg Arg Glu Glu Ala
 65 70 75 80
 Pro Arg Leu Phe Thr His Ile Asn Leu His Phe Ile Val Thr Gly Lys
 85 90 95
 Glu Leu Lys Asp Ala Ala Val Ser Arg Ala Val Asp Leu Ser Ala Glu
 100 105 110
 Lys Tyr Cys Ser Val Ala Leu Met Leu Glu Lys Ala Val Asn Ile Thr
 115 120 125
 His Ser Tyr Glu Val Ile Glu Ala
 130 135

<210> 8146

<211> 295

<212> FRT

<213> Enterobacter cloacae

<400> 8146

Pro Thr Cys Glu Ile Pro Glu Leu Val Met Lys Leu Leu Pro Gln Ile
 1 5 10 15
 Gln Val Glu Gly Gly Ala Glu Trp Leu Ala Arg Thr Ala Thr Gln Cys
 20 25 30
 Leu Ile Asp Glu Ala Arg Leu Ser Pro Lys Pro Gly Leu Val Asp Ser
 35 40 45
 Arg Gly Asn Gly Ala His His Asp Leu Ser Leu Ala Leu Met Glu Arg
 50 55 60
 Ser Ala Arg Ser Leu Thr Pro Thr Phe Gln Ala Leu Ala Gln Gln Ser
 65 70 75 80
 Trp Gln Arg Pro Ala Asp Ile Ala Leu Arg Gln Thr Val Gly Arg Leu
 85 90 95
 Gly Arg Glu Gly Glu Arg Gln Met Met Ala Ala Thr Asp Gly Val Asn
 100 105 110
 Thr His Arg Gly Ala Ile Trp Ala Leu Gly Leu Val Ser Ala Val
 115 120 125
 Ala Met Leu Gly Gly Asp Ala Arg Ala Gln Thr Val Ala Asn Thr Ala
 130 135 140
 Ala Gln Leu Ala Lys Leu Pro Asp Asp Val Ala Pro Lys Val Phe Ser
 145 150 155 160
 Lys Gly Leu Arg Val Thr His Arg Tyr Arg Val Pro Gly Ala Arg Glu
 165 170 175
 Glu Ala Gln Gln Ala Phe Pro His Ile Met Gln Arg Ala Leu Pro Gln
 180 185 190
 Leu Arg Leu Ser Arg Leu Asn Gly Ser Ser Glu Thr Gln Ala Arg Leu
 195 200 205
 Asp Ala Leu Met Ala Ile Met Thr Ser Leu Thr Asp Thr Cys Val Leu
 210 215 220
 Ser Arg Ala Gly Met Glu Gly Leu Asp Ala Met Gln Asn Gly Ala Arg
 225 230 235 240
 Ala Val Leu Asn Ala Gly Gly Cys Ala Thr Leu Ala Gly Gln Gln Ala
 245 250 255
 Leu Ala Arg Leu Asp Arg Gln Met Leu Ala Leu Asn Ala Ser Pro Gly
 260 265 270
 Gly Ala Ala Asp Leu Leu Ala Ala Thr Leu Phe Leu Asp Arg Val Glu
 275 280 285

Thr Pro Tyr Ser Lys His
290 295

<210> 8147
<211> 103
<212> PRT
<213> Enterobacter cloacae

<400> 8147
Glu Asp Val Met Glu Lys Ile Thr Leu Thr Val Pro Ala Ser Arg Glu
1 5 10 15
Val Ser Gly Arg Ala Leu Ala Gly Val Val Gly Ser Gly Asp Met Glu
20 25 30
Val Leu Phe Thr Ala Glu Pro Gly Gln Thr Leu Thr Ile Asp Ile Thr
35 40 45
Thr Ser Val Asp Asn Ser Arg Gly Arg Trp Glu Ala Leu Phe Asn Arg
50 55 60
Leu Gln Thr Val Ser Ser Leu Pro Ala Gly Lys Leu Thr Ile His Asp
65 70 75 80
Phe Gly Ala Thr Pro Gly Val Ala Arg Ile Arg Ile Glu Gln Val Phe
85 90 95
Glu Gly Val Asn His Ala
100

<210> 8148
<211> 276
<212> PRT
<213> Enterobacter cloacae

<400> 8148
Ser Ala Phe Cys Pro Gly Gly Glu Met Met Thr Asn Ser Ile Ser Arg
1 5 10 15
Gly Glu Leu Trp Leu Glu Thr Leu Ala Pro Asn Ala Lys Arg Leu Glu
20 25 30
Gly Leu Cys Pro Ser Val Gln Ala Ala Asp Gly Glu Leu Asn Gly Glu
35 40 45
Thr Val Arg Phe Val Ala Val Val Pro Asp Val Asn Asn His Phe Pro
50 55 60
Arg Ala Ala Gln Gly Glu Val Gly Leu Leu Glu Gly Trp Thr Leu Ala
65 70 75 80
Lys Val Val Ser Glu Thr Val Ala Ala Asp Ala Asp Lys Ala Val Lys
85 90 95
Arg Pro Ile Val Ala Val Ile Asp Val Pro Ser Gln Ala Tyr Gly Arg
100 105 110
Arg Glu Glu Ala Phe Gly Ile His Gln Ala Leu Ala Gly Ala Ala Ala
115 120 125
Ala Tyr Ala Asn Ala Arg Leu Ala Gly His Pro Val Ile Gly Leu Ile
130 135 140
Val Gly Lys Ala Met Ser Gly Ala Phe Leu Ala His Gly Tyr Gln Ala
145 150 155 160
Asn Arg Leu Ile Ala Phe Asn Asp Lys Gly Val Leu Ile His Ala Met
165 170 175
Gly Lys Glu Ser Ala Ala Arg Ile Thr Leu Arg Thr Val Glu Ala Leu
180 185 190
Glu Lys Leu Ala Ala Thr Ile Pro Pro Met Ala Tyr Asp Ile Ser Asn
195 200 205
Tyr Ala Thr Leu Gly Leu Leu Ser Asp Leu Leu Asp Ile Ser Asn Pro
210 215 220
Asp Ala Pro Ser Glu Ser Asp Leu Thr Arg Val Lys Thr Thr Leu Gln
225 230 235 240
Gln Ala Ile Ser Asp Ala Arg Gln Asp Thr Thr Leu Lys Asn Arg Leu

Gly Ala Asp Asn Arg Arg Ser Ser Ala Leu Val Arg Glu Arg Met Arg
245 250 255
260 265 270
Ala Ser Trp
275

<210> 8149
<211> 321
<212> PRT
<213> Enterobacter cloacae

[illegible]

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<210> 8150
<211> 650
<212> PRT
<213> Enterobacter cloacae
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<400> 8150

Ala Asp Gly Gly Asp Val Pro Tyr Ala Leu Asp Glu Pro Asp Tyr Tyr
 1 5 10 15
 Leu Leu Gly Thr Ala Ala Gly Ser Glu Ser Ala Gly Glu Pro Cys Gln
 20 25 30
 Gly Leu Trp Arg Met Ala Gly Val Thr Asp Ser Gly Gly Arg Thr Leu
 35 40 45
 Met Asp Gly Ser Asn Leu Leu Leu Ala Gly Val Leu Phe Leu Phe Ala
 50 55 60
 Ala Val Val Ala Val Pro Leu Ala Ala Arg Leu Gly Ile Gly Ala Val
 65 70 75 80
 Leu Gly Tyr Leu Leu Ala Gly Ile Ala Ile Gly Pro Trp Gly Leu Gly
 85 90 95
 Phe Ile Ser Asp Val Asp Glu Ile Leu His Phe Ser Glu Leu Gly Val
 100 105 110
 Val Phe Leu Met Phe Ile Ile Gly Leu Glu Leu Asn Pro Ser Lys Leu
 115 120 125
 Trp Gln Leu Arg Gln Ser Ile Phe Gly Val Gly Ala Ala Gln Val Leu
 130 135 140
 Leu Ser Ala Ala Ile Leu Ala Gly Leu Leu Met Leu Thr Gln Phe Ser
 145 150 155 160
 Trp Gln Ala Ala Val Ile Gly Gly Ile Gly Leu Ala Met Ser Ser Thr
 165 170 175
 Ala Met Ala Leu Gln Leu Met Arg Asp Lys Gly Met Asn Arg Asn Glu
 180 185 190
 Ala Gly Gln Leu Gly Phe Ser Val Leu Leu Phe Gln Asp Leu Ala Val
 195 200 205
 Ile Pro Ala Leu Ala Leu Val Pro Leu Leu Ala Gly Ser Gly Asp Asp
 210 215 220
 His Phe Asp Trp Met Lys Ile Ser Met Lys Val Leu Ala Phe Ala Gly
 225 230 235 240
 Met Leu Ile Gly Gly Arg Phe Leu Leu Arg Pro Val Phe Arg Phe Ile
 245 250 255
 Ala Ala Ser Gly Val Arg Glu Val Phe Thr Ala Ala Thr Leu Leu
 260 265 270
 Val Leu Gly Ser Ala Leu Phe Met Asp Ala Leu Gly Leu Ser Met Ala
 275 280 285
 Leu Gly Thr Phe Ile Ala Gly Val Leu Leu Ala Glu Ser Glu Tyr Arg
 290 295 300
 His Glu Leu Glu Thr Ala Ile Asp Pro Phe Lys Gly Leu Leu Leu Gly
 305 310 315 320
 Leu Phe Phe Ile Ser Val Gly Met Ala Leu Asn Leu Gly Val Leu Tyr
 325 330 335
 Thr His Leu Leu Trp Val Ile Ala Ser Val Ala Val Leu Val Ala Val
 340 345 350
 Lys Thr Leu Val Leu Tyr Leu Leu Ala Arg Ile Tyr Gly Leu Arg Ser
 355 360 365
 Ser Glu Arg Met Gln Phe Ser Ser Val Leu Ser Gln Gly Gly Glu Phe
 370 375 380
 Ala Phe Val Leu Phe Ser Thr Ala Ser Ser Gln Lys Leu Phe Lys Asp
 385 390 395 400
 Asp Gln Met Ala Leu Leu Val Thr Val Thr Leu Ser Met Met Thr
 405 410 415
 Thr Pro Leu Leu Met Lys Leu Val Asp Lys Leu Leu Ser Arg Leu
 420 425 430
 Asn Pro Ala Asp Asp Glu Asp Glu Ala Pro Trp Val Glu Asp Asp Lys
 435 440 445
 Pro Gln Val Ile Val Val Gly Phe Gly Arg Phe Gly Gln Val Ile Gly
 450 455 460
 Arg Leu Leu Met Ala Asn Lys Met Arg Ile Thr Val Leu Glu Arg Asp
 465 470 475 480
 Ile Ser Ala Val Asn Leu Met Arg Lys Tyr Gly Tyr Lys Val Tyr Tyr

485 490 495
 Gly Asp Ala Thr Gln Leu Glu Leu Leu Arg Ser Ala Gly Ala Glu Ala
 500 505 510
 Ala Glu Ser Ile Val Ile Thr Cys Asn Asp Pro Glu Asp Thr Met Lys
 515 520 525
 Leu Val Glu Leu Cys Gln Gln His Phe Pro His Leu His Ile Leu Ala
 530 535 540
 Arg Ala Arg Gly Arg Val Glu Ala His Glu Leu Leu Gln Ala Gly Val
 545 550 555 560
 Lys His Phe Ser Arg Glu Thr Phe Ser Ser Ala Leu Glu Leu Gly Arg
 565 570 575
 Lys Ala Leu Val Ser Leu Gly Met His Pro His Gln Ala Gln Arg Ala
 580 585 590
 Gln Met His Phe Arg Arg Leu Asp Met Arg Met Leu Arg Glu Leu Met
 595 600 605
 Pro Val His Ser Asp Thr Ala Gln Ile Ser Arg Val Arg Glu Ala Arg
 610 615 620
 Arg Glu Leu Glu Glu Ile Phe Gln Arg Glu Met Gln Gln Glu Arg Arg
 625 630 635 640
 Gln Leu Asp Gly Trp Asp Glu Phe Glu
 645 650

<210> 8151

<211> 557

<212> FRT

<213> Enterobacter cloacae

<400> 8151

Ile Arg Arg Leu Ile Met Leu Ser Gly Gln Thr Pro Thr Arg Gln Trp
 1 5 10 15
 Asn Thr Arg Arg Ser Glu Lys Ala Arg Arg Leu Ala Ser Val Pro Val
 20 25 30
 Gln Gly Lys Val Leu Pro Thr Gly Asp Leu Val Ala Met Leu Glu Lys
 35 40 45
 Leu Ile Ala Pro Gly Asp Lys Val Val Leu Glu Gly Asn Asn Gln Lys
 50 55 60
 Gln Ala Asp Phe Leu Ser Arg Ser Leu Ala Glu Val Asn Pro Gln Ile
 65 70 75 80
 Val His Asp Leu His Met Ile Met Pro Ser Val Gly Arg Ser Glu His
 85 90 95
 Leu Asp Ile Phe Glu Lys Gly Ile Ala Arg Lys Leu Asp Phe Ser Phe
 100 105 110
 Ser Gly Thr Gln Ser Leu Arg Ile Ser Gln Leu Leu Glu Asp Gly Gln
 115 120 125
 Leu Glu Ile Gly Ala Ile His Thr Tyr Ile Glu Leu Tyr Ser Arg Leu
 130 135 140
 Tyr Val Asp Leu Ser Pro Asn Val Ala Leu Ile Ala Gly Phe Lys Ala
 145 150 155 160
 Asp Arg Lys Gly Asn Leu Tyr Thr Gly Ala Ser Thr Glu Asp Thr Pro
 165 170 175
 Ala Leu Val Glu Ala Ala Ala Phe His Asp Gly Ile Val Ile Ala Gln
 180 185 190
 Val Asn Glu Leu Val Asp Asp Glu Cys Asp Leu Pro Arg Val Asp Ile
 195 200 205
 Pro Gly Ser Trp Ile Asp Phe Val Val Val Ala Asp Lys Pro Phe Phe
 210 215 220
 Ile Glu Pro Leu Phe Thr Arg Asp Pro Arg Leu Ile Lys Gln Glu His
 225 230 235 240
 Ile Leu Met Ala Met Met Ala Ile Lys Gly Ile Tyr Ala Glu His Gln
 245 250 255
 Val Gln Ser Leu Asn His Gly Ile Gly Phe Asn Thr Ala Ala Ile Glu

	260		265		270										
Leu	Leu	Leu	Pro	Thr	Tyr	Gly	Glu	Gln	Leu	Gly	Leu	Lys	Gly	Lys	Ile
	275						280					285			
Cys	Lys	His	Trp	Thr	Leu	Asn	Pro	His	Pro	Thr	Leu	Ile	Pro	Ala	Ile
	290					295					300				
Glu	Ser	Gly	Trp	Val	Glu	Ser	Val	His	Cys	Phe	Gly	Gly	Glu	Leu	Gly
	305				310					315				320	
Met	Glu	Glu	Tyr	Ile	Arg	Ala	Arg	Pro	Asp	Val	Phe	Phe	Thr	Gly	Ala
				325					330					335	
Asp	Gly	Ser	Met	Arg	Ser	Asn	Arg	Ala	Phe	Cys	Gln	Leu	Ala	Gly	Gln
			340					345					350		
Tyr	Ala	Val	Asp	Met	Phe	Ile	Gly	Ser	Thr	Leu	Gln	Val	Asp	Gly	Tyr
	355						360					365			
Ala	Asn	Ser	Ser	Thr	Val	Thr	Arg	Gly	Arg	Leu	Ser	Gly	Phe	Gly	Gly
	370					375					380				
Ala	Pro	Asn	Met	Gly	His	Asp	Pro	His	Gly	Arg	Arg	His	Ala	Thr	Pro
	385				390					395				400	
Ala	Trp	Leu	Asn	Met	Ile	Thr	Glu	Pro	Asp	Pro	Met	Gln	Arg	Gly	Lys
			405						410					415	
Lys	Leu	Val	Val	Gln	Met	Val	Glu	Thr	Phe	Gln	Ala	Gly	Val	Lys	Pro
			420					425					430		
Thr	Phe	Val	Glu	Lys	Leu	Asp	Ala	Val	Asp	Val	Ala	Lys	Ala	Ser	Gly
	435					440					445				
Met	Pro	Leu	Ala	Pro	Val	Met	Ile	Tyr	Gly	Asp	Asp	Val	Thr	His	Val
	450					455					460				
Leu	Thr	Glu	Glu	Gly	Ile	Ala	Tyr	Leu	Tyr	Arg	Ala	Lys	Asp	Leu	Glu
	465				470					475				480	
Glu	Arg	Arg	Ala	Met	Val	Ala	Ala	Val	Ala	Gly	Ile	Thr	Asp	Ile	Gly
			485						490					495	
Leu	Gly	Val	Asp	Ala	Lys	Arg	Val	Ala	Glu	Leu	Arg	Gln	Ser	Gly	Lys
			500					505				510			
Val	Val	Tyr	Pro	Glu	Asp	Met	Gly	Ile	Arg	Arg	Thr	Asp	Ala	Thr	Arg
	515					520						525			
Ser	Leu	Leu	Ala	Ala	Gly	Ser	Val	Ala	Asp	Leu	Val	Glu	Trp	Ser	Gly
	530					535					540				
Gly	Leu	Tyr	Asn	Pro	Pro	Ala	Lys	Phe	Arg	Ser	Trp				
	545				550					555					

<210> 8152

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 8152

Ile	Met	Arg	Asp	Asp	Ser	Ser	Phe	Ile	Glu	Leu	Lys	Ala	Arg	Gln	Arg
1			5						10					15	
Ala	Gln	Ala	Leu	Leu	Asp	Asp	Gly	Ser	Tyr	Arg	Glu	Leu	Leu	Asp	Pro
			20				25					30			
Phe	Glu	Gly	Ile	Ile	Ser	Pro	Trp	Leu	Gly	Pro	Gln	Gly	Ile	Val	Pro
		35				40						45			
Gln	Ala	Asp	Asp	Gly	Met	Val	Val	Ala	Lys	Gly	Thr	Ile	Asn	Gly	Gln
	50				55					60					
Pro	Ala	Val	Val	Val	Ala	Ile	Glu	Gly	Thr	Phe	Gln	Gly	Gly	Ser	Met
	65				70				75					80	
Gly	Glu	Val	Ser	Gly	Ala	Lys	Met	Ala	Ala	Leu	Glu	Leu	Ala	Ala	
			85					90				95			
Glu	Asp	Asn	Arg	Asn	Gly	Ile	Pro	Thr	Gln	Ala	Val	Leu	Cys	Leu	Glu
		100					105					110			
Thr	Gly	Gly	Val	Arg	Leu	Gln	Glu	Ala	Asn	Leu	Gly	Leu	Ala	Ala	Ile
		115				120						125			
Ala	Asp	Ile	His	Ala	Ala	Ile	Val	Asp	Leu	Arg	Arg	Tyr	Thr	Pro	Val

130	135	140
Val Gly Ile Val Ala Gly Thr Val Gly Cys Phe Gly Gly Met Ser Ile		
145	150	155
Ala Ala Ala Leu Cys Ser Tyr Leu Ile Val Thr Arg Glu Ala Arg Leu		160
	165	170
Gly Leu Asn Gly Pro Gln Val Ile Glu Gln Glu Ala Gly Ile Glu Glu		175
	180	185
Tyr Asp Ser Arg Asp Arg Pro Phe Ile Trp Ser Met Thr Gly Gly Glu		190
	195	200
Val Arg Tyr Glu Ser Gly Leu Val Asp Ala Leu Val Gly Asp Gly Val		205
	210	215
Asn Ala Val Lys Ala Ala Met Asn Glu Ala Ile Ala Lys Gly Val Pro		220
	225	230
Ala Lys His Arg Thr Asp Asn Tyr Asp Asp Tyr Leu Asn Arg Leu Thr		235
	245	250
Asn Phe Asp Thr Arg Lys Gln Ala Asp Ala Glu Gln Ile Lys Ala Leu		255
	260	265
Phe Ala Arg Glu Val Lys		270
	275	

<210> 8153

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 8153

Leu Ala Gly Ser Ala Gln Ser Cys Val Val Pro Gly Gly Tyr Thr Gly		
1	5	10
Gly Tyr Ala Arg Gly Arg Ile Arg Ala Gly Met Val Thr Arg Arg		15
	20	25
Gln Asn Ala Ala Lys Asn Ala Ile Trp Ala Ala Pro Gly Ser Gly Ser		30
	35	40
Met Ala Gln Gly Gly Val Met Lys Ile Leu Phe Thr Phe Pro Gly Gln		45
	50	55
Gly Thr Gln His Glu Gly Met Leu Gln Asn Leu Pro Gly Thr Glu Leu		60
	65	70
Glu Gln Ala Arg Ala Val Leu Gly Ala Glu Val Asp Thr Leu Asp Ser		75
	85	90
Ala Ser Ser Leu Thr His Thr Arg Ala Val Gln Leu Ser Leu Leu Ile		95
	100	105
Ala Gly Val Ala Trp Ala Arg Glu Leu Glu Arg Arg Gly Val Ser Pro		110
	115	120
Asp Ile Val Ser Gly Leu Ser Ile Gly Ala Tyr Pro Ala Ala Val Ile		125
	130	135
Ala Gly Ala Leu Asp Phe Thr Asp Ala Leu Lys Leu Val Ala Leu Arg		140
	145	150
Gly Asp Leu Met Glu Gln Ala Tyr Pro His Gly Tyr Gly Leu Thr Ala		155
	165	170
Ile Met Gly Leu Thr Leu Pro Gln Val Glu Asn Leu Ile Gln Gly Thr		175
	180	185
Gly Thr Tyr Ile Ala Asn Leu Asn Ala Glu Thr Gln Ile Val Ile Ala		190
	195	200
Gly Ala Asp Asp Gly Met Ala Gln Val Ala Glu Arg Ala Leu Ala Lys		205
	210	215
Gly Ala Asn Lys Ala Lys Arg Leu Ala Val Ser Val Pro Ser His Cys		220
	225	230
Glu Leu Leu Ala Glu Pro Ala Gln Lys Leu Ala Ala Ala Phe Glu Ser		235
	245	250
Val Thr Leu Ser Arg Pro Arg Cys Ala Tyr Leu Ser Gly Ser Thr Gly		255
	260	265
Arg Val Leu Trp Gln Pro Glu Lys Ile Ala Asp Asp Leu Ala Met Asn		270

275 280 285
 Met Ala Arg Thr Val Arg Trp Gln Glu Ala Val Ile Ser Ala Asn Glu
 290 295 300
 Arg Glu Ala Arg Leu Ala Ile Glu Met Pro Pro Gly Gly Ile Leu Thr
 305 310 315
 Cys Leu Thr Arg Gln Ala Ala Trp Glu Gly Glu Ser Ile Ser Leu Glu
 320 325 330 335
 Arg Ser Gly Val Asp Val Ala Val His Leu Ala Gly Arg Leu Gln Arg
 340 345 350

<210> 8154

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8154

Arg Leu Gly Leu Glu Ala Ile His Lys Ala Leu Gln Val Arg His Ala
 1 5 10 15
 Leu Leu Leu Ala Phe Ile His Arg Leu Leu Leu Gly Lys Ala Arg Arg
 20 25 30
 Ala Leu Ala Leu Glu Arg Ala Val Val Ala Gly Val Phe Glu His Ala
 35 40 45
 Leu Leu Phe Asp Met Asn Asp Phe Ile His His Arg Ile Glu Glu Val
 50 55 60
 Ala Val Val Gly Asp Gln Asn Gln Ser Ala Leu Ile Ala Leu Glu Pro
 65 70 75 80
 Leu Leu Gln Pro Asn Asn Arg Ile Glu Ile Glu Val Val Gly Gly Phe
 85 90 95
 Ile Glu Gln Gln Glu Val Gly Ala Ala Asp Gln Arg Leu Arg Gln Val
 100 105 110
 Lys Ala His Thr Pro Ala Ala Gly Glu Ile Ala His Arg Ala Phe Lys
 115 120 125
 Leu Phe Val Ala Glu Thr Gln Ala Val Gln Gln Ala Gly Gly Ala Gly
 130 135 140
 Ala Asn Gly Pro Gly Ile Asp Gly Val Gln Leu Ala Val Asp Gly Gly
 145 150 155 160
 Asp Gly Val Ala Val Val Ala Phe Val Gly Gly Val Glu Leu Cys Phe
 165 170 175
 Glu Leu Ala Val Phe Thr Val Ala Val Asp Asn Ile Val Glu Arg Gly
 180 185 190
 Phe Ala Gln Arg Gly Arg Leu Leu Val His Pro Gly Glu Leu Pro Val
 195 200 205
 Ala Arg Glu Gly Lys Val Thr Ala Ile Arg Ala Tyr Leu Val Phe Gln
 210 215 220
 Gln Cys Gln Gln Gly Gly Phe Thr Ala Ala Val Phe Ala Asp Gln Pro
 225 230 235 240
 His Phe Leu Ala Arg Val Asp Gly Ser Ser Arg Val Ile Gln Gln Asp
 245 250 255
 Ala His Ala Ala Thr Asn Ieu
 260

<210> 8155

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 8155

Pro Lys Thr Thr Thr Ile His Lys Asn Arg Thr Gly Arg Gly Met Met
 1 5 10 15

Ser Gln Thr Ala Lys Val Leu Leu Leu Tyr Ala His Pro Glu Ser Gln
 20 25 30
 Asp Ser Val Ala Asn Arg Val Leu Leu Lys Pro Ala Thr Gln Leu Ser
 35 40 45
 Asn Val Thr Val His Asp Leu Tyr Ala His Tyr Pro Asp Phe Phe Ile
 50 55 60
 Asp Ile Pro Tyr Glu Gln Glu Leu Leu Arg Gln His Asp Val Ile Val
 65 70 75 80
 Phe Gln His Pro Leu Tyr Thr Tyr Ser Cys Pro Ala Leu Leu Lys Glu
 85 90 95
 Trp Leu Asp Arg Val Leu Ser Arg Gly Phe Ser Ser Gly Val Gly Gly
 100 105 110
 Asn Gln Leu Ala Gly Lys Tyr Trp Arg Ser Val Ile Thr Thr Gly Glu
 115 120 125
 Pro Glu Ser Ala Tyr Arg His Asp Gly Leu Asn Arg Tyr Pro Met Ser
 130 135 140
 Asp Ile Leu Arg Pro Phe Glu Leu Thr Ala Ala Met Cys Arg Met His
 145 150 155 160
 Trp Met Ser Pro Ile Ile Ile Tyr Trp Ala Arg Arg Gln Asp Pro Lys
 165 170 175
 Ala Leu Ala Ser His Ala Arg Ala Tyr Gly Glu Trp Leu Ala Ser Pro
 180 185 190
 Ile Pro Ala Gly Gly Arg
 195

<210> 8156

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 8156

Pro Glu Leu Thr Gly Pro Val Asn His Asp Gly Phe Thr Val Gly Gly
 1 5 10 15
 Asp Gln Val Leu Ile Phe Gln His Leu Gln Asp Thr Ala His Cys Phe
 20 25 30
 Thr Gly Ala Ala Asp Asp Leu Thr Asp Phe Leu Ala Gly Asn Phe Asn
 35 40 45
 Leu His Thr Val Arg Val Ser His Gly Val Trp Leu Phe Arg Gln Val
 50 55 60
 Gln Gln Arg Leu Arg Asp Thr Thr Gly Tyr Val Gln Glu Gly Glu Val
 65 70 75 80
 Thr Tyr Leu Leu Arg Gly His Leu Gln Thr Ala Cys His Leu Gly Arg
 85 90 95
 Glu Thr His Gln Asp Val Arg Val Asp Leu Asn Gln Leu Thr Glu Phe
 100 105 110
 Leu Ile Arg Asn Phe Ser His Phe Thr Cys Cys Phe Cys Thr Asn Pro
 115 120 125
 Gly Ala Thr Phe Leu Ala Phe Phe Lys Gln Ala Gln Phe Thr Asp Lys
 130 135 140
 Ile Ala Leu Val Gln Ile Arg Lys Asp His Leu Phe Pro Phe Phe Ile
 145 150 155 160
 Phe Asp Gln His Gly His Arg Ala Phe Asn Asp Val Ile Gln Arg Phe
 165 170 175
 Arg Phe Phe Thr Leu Val Asn Gln Arg Ala Leu
 180 185

<210> 8157

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 8157
 Trp Val Leu Met Asn Val Ala Met Arg Gln Glu Pro Phe Glu Ser Arg
 1 5 10 15
 Val Cys Leu Arg Phe Ala Lys His His Ala Leu Leu Ser Ser Val Ile
 20 25 30
 Ser Cys His Gln Ser His Lys Met His Pro Asp Ser Gly Val Ala Ile
 35 40 45
 Glu Phe Leu Pro Ile Pro Gly Lys Ser Ala Val Val Thr Phe Arg Ser
 50 55 60
 Gln
 65

<210> 8158

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 8158
 Ser Arg Ala Ala Val Glu Leu His Thr Val Tyr Pro Val Ala Ala Ala
 1 5 10 15
 Val Tyr Leu Ala Asp Phe Arg Asn Val Ile Met Thr Thr Thr Leu Arg
 20 25 30
 Pro His Asp Leu Ile Trp Leu Thr Ala Arg Asp Ala Leu Glu Gly Ile
 35 40 45
 Thr Glu Ser Trp Val Asp Ala Ala Trp His Thr Gly Leu Pro Val Val
 50 55 60
 Val Arg Arg Asp Val Asp Asn Glu Gly Arg Ile Pro Val Gly Val Arg
 65 70 75 80
 Gly Leu Arg Arg Asp Gln Arg Ala Ala Gly Trp Val Lys Pro Glu Asn
 85 90 95
 Val Leu Arg Val Val Ser Pro Glu Asp Leu Ser Val Ala Ala Asp Leu
 100 105 110
 Leu Arg Ser Pro Phe Ile Thr Gln Pro Pro Val Gln Val Ala Leu Gln
 115 120 125
 Leu Ala Gln Gln Ser Trp Pro Trp Thr Trp Gly Ile Thr Gly Ser Thr
 130 135 140
 Gly Tyr Ala Leu Ala Thr Gly Ile Pro Val Ile His Ala Asp Ser Asp
 145 150 155 160
 Leu Asp Leu Leu Ile Arg Ala Pro Cys Thr Val Ser Pro Glu Ala Phe
 165 170 175
 Thr Asp Trp Gln Ala Gln Leu Ser Arg Ala Leu Cys Arg Ala Asp Thr
 180 185 190
 Gln Val Asp Thr Pro Glu Gly Gly Phe Ala Leu Ala Glu Trp Leu Arg
 195 200 205
 Asp Gly Lys Thr Leu Leu Lys Thr Gln Tyr Gly Pro Arg Leu Val Ala
 210 215 220
 Asp Pro Trp His Arg Glu Glu
 225 230

<210> 8159

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 8159
 Val Phe Leu Ser Leu Arg Val His Gly Cys Arg Phe Pro Leu Gln Ser
 1 5 10 15
 Ala Pro Ala Ile Phe Pro Arg Ser Gly Asp Ile Met Lys Val Ala Lys
 20 25 30
 Asp Leu Val Val Ser Leu Ala Tyr Gln Val Arg Thr Glu Asp Gly Val
 35 40 45

Leu Val Asp Glu Ser Pro Val Ser Ala Pro Leu Asp Tyr Leu His Gly
 50 55 60
 His Gly Ser Leu Ile Ser Gly Leu Glu Thr Ala Leu Glu Gly His Glu
 65 70 75
 Val Gly Asp Lys Phe Asp Val Ala Val Gly Ala Asn Asp Ala Tyr Gly
 85 90 95
 Gln Tyr Asp Asp Asn Leu Val Gln Arg Val Pro Lys Asp Val Phe Met
 100 105 110
 Gly Val Asp Glu Leu Gln Val Gly Met Arg Phe Leu Ala Glu Thr Asp
 115 120 125
 Gln Gly Pro Val Pro Val Glu Ile Thr Glu Val Glu Asp Asp His Val
 130 135 140
 Val Val Asp Gly Asn His Met Leu Ala Gly Gln Asn Leu Lys Phe Asn
 145 150 155 160
 Val Glu Val Val Ala Ile Arg Glu Ala Thr Glu Glu Glu Leu Ala His
 165 170 175
 Gly His Val His Gly Ala His Gly His Asp His Asp His Asp His Gly
 180 185 190
 His Asp Gly Cys Cys Gly Gly His Gly His Asp His Gly His Asp His
 195 200 205
 Gly His Gly Lys Gly Gly Cys Gly Asn Gly Gly Cys Gly Cys His
 210 215 220

<210> 8160

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 8160

Arg Val Glu Gly Gly Cys Arg Tyr Ala Thr Thr Asp Ala Gly Arg Arg
 1 5 10 15
 Leu Met Ser Asn Ala Pro Gln Leu Tyr Ala Leu Tyr Gln Gln Leu Leu
 20 25 30
 Glu Gln Ser Gln Leu Met Leu Arg Leu Ala Arg Gln Gly Leu Trp Asp
 35 40 45
 Asp Leu Ile Ile Cys Glu Thr Asp Tyr Val Asn Ala Val His Ser Leu
 50 55 60
 Ala Arg Leu Thr Gln Glu Ser Glu Pro Ser Thr Gln Ile Gln Glu Gln
 65 70 75 80
 Leu Arg Pro Thr Leu Arg Val Ile Leu Asp Asn Glu Gly Gln Val Lys
 85 90 95
 Thr Leu Leu Gln Ala Arg Met Asp Glu Leu Ala Lys Leu Val Gly Gln
 100 105 110
 Ser Ser Ile Gln Lys Thr Val Leu Ser Thr Tyr Gly Asn Gln Gly Gly
 115 120 125
 His Val Leu Val Pro Gln Ser Asn Ser Asp Ile Asn
 130 135 140

<210> 8161

<211> 571

<212> PRT

<213> Enterobacter cloacae

<400> 8161

Arg Lys Pro Pro Gly Phe Lys Arg Cys Ala Met Ser Ala Thr Ala Ala
 1 5 10 15
 Ser Thr Ala Pro Gln Asn Lys Ser Leu Glu Trp Met Asn Arg Leu Arg
 20 25 30
 Ala Asn Pro Lys Ile Pro Leu Ile Val Ala Gly Ala Ala Ile Ala
 35 40 45
 Ile Val Val Ala Met Val Leu Trp Ala Lys Ser Pro Asp Tyr Arg Thr

50	55	60
Leu Tyr Ser Asn Leu Ser Asp Gln Asp Gly Gly Ala Ile Val Thr Gln		
65	70	75
Leu Thr Gln Met Asn Ile Pro Tyr Arg Phe Ala Asp Asn Gly Gly Ala		80
	85	90
Leu Glu Val Pro Ala Asp Lys Val His Glu Leu Arg Leu Arg Leu Ala		95
	100	105
Gln Gln Gly Leu Pro Lys Gly Gly Ala Val Gly Phe Glu Leu Leu Asp		110
	115	120
Gln Glu Lys Phe Gly Ile Ser Gln Phe Ser Glu Gln Val Asn Tyr Gln		125
	130	135
Arg Ala Leu Glu Gly Glu Leu Ala Arg Thr Ile Glu Thr Leu Gly Pro		140
	145	150
Val Lys Ser Ala Arg Val His Leu Ala Met Pro Lys Pro Ser Leu Phe		155
	160	165
Val Arg Glu Gln Lys Ser Pro Ser Ala Ser Val Thr Val Asn Leu Glu		170
	175	180
Pro Gly Arg Ala Leu Asp Glu Gly Gln Ile Ser Ala Val Thr His Leu		185
	190	195
Val Ser Ser Ala Val Ala Gly Leu Pro Pro Gly Asn Val Thr Leu Val		200
	205	210
Asp Gln Ser Gly His Leu Leu Thr Gln Ser Asn Thr Ala Gly Arg Asp		215
	220	225
Leu Asn Asp Ala Gln Leu Lys Tyr Ala Ala Asp Val Glu Gly Arg Leu		230
	235	240
Gln Arg Arg Ile Glu Ala Ile Leu Gly Pro Val Val Gly Ser Ser Asn		245
	250	255
Val His Ala Gln Val Thr Ala Gln Ile Asp Phe Ser Asn Lys Glu Gln		260
	265	270
Thr Glu Glu Gln Tyr Ala Pro Asn Gly Asp Ala Ser Arg Ala Val Leu		275
	280	285
Arg Ser Arg Gln Ile Asn Glu Thr Glu Gln Val Gly Gly Gln Tyr Pro		290
	295	300
Gly Gly Val Pro Gly Ala Leu Ser Asn Gln Pro Ala Pro Ala Asn Ala		305
	310	315
Ala Pro Ile Ser Thr Pro Pro Ala Asn Pro Gln Asn Gly Gln Gln Thr		320
	325	330
Asn Gln Gln Thr Thr Ser Thr Ala Asn Ser Thr Gly Pro Arg Asn Ser		335
	340	345
Ser Arg Asn Glu Thr Thr Asn Tyr Glu Val Asp Arg Thr Ile Arg His		350
	355	360
Thr Lys Leu Asn Thr Gly Asp Ile Gln Arg Leu Ser Val Ala Val Val		365
	370	375
Val Asn Tyr Lys Thr Leu Pro Asp Gly Lys Pro Leu Pro Leu Thr Ala		380
	385	390
Glu Gln Met Lys Gln Ile Glu Asp Leu Thr Arg Glu Ala Met Gly Phe		395
	400	405
Ser Glu Lys Arg Gly Asp Thr Leu Asn Val Val Asn Ser Pro Phe Asn		410
	415	420
Pro Val Asp Glu Thr Gly Gly Glu Leu Pro Phe Trp Gln Gln Gln Ala		425
	430	435
Phe Phe Asp Gln Leu Met Ser Ala Gly Arg Trp Leu Leu Val Leu Ile		440
	445	450
Val Ala Trp Leu Leu Trp Arg Lys Gly Val Arg Pro Gln Leu Gln Arg		455
	460	465
Arg Ala Glu Ala Glu Lys Ala Ala Leu Glu Gln Lys Asn Ala Arg Pro		470
	475	480
Asp Glu Glu Glu Ala Val Glu Val Arg Leu Ser Lys Asp Glu Gln Met		485
	490	495
Gln Gln Arg Arg Ala Asn Gln Arg Met Gly Ala Glu Val Met Ser Gln		500
	505	510
530	535	540

Arg Ile Arg Glu Met Ser Asp Asn Asp Pro Arg Val Val Ala Leu Val
 545 550 555 560
 Ile Arg Gly Trp Met Gly Asn Glu His Glu
 565 570

<210> 8162

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 8162

Met Ile Thr Leu Leu Gln Leu Leu Met Thr Asp Ser Asp Pro Ser Gly
 1 5 10 15
 Gly Thr Leu Ala Gly Lys Gly Ala Glu Gly Ala Gln Asp Phe Leu Ser
 20 25 30
 Leu Leu Ala Gly Ala Leu Thr Glu Thr Thr Gly Lys Gly Lys Asp Ala
 35 40 45
 Pro Leu Thr Leu Ala Asp Leu Lys Ala Ala Gly Ser Lys Leu Ser Thr
 50 55 60
 Ala Ala Gln Glu Lys Asn Gly Asp Thr Trp Leu Gln Ala Lys Ile Ala
 65 70 75 80
 Glu Leu Leu Ser Arg Gln Glu Thr Leu Thr Gly Glu Asp Thr Ala Val
 85 90 95
 Ser Leu Gln Ser Leu Val Ser Gly Leu Lys Pro Ala Ala Asn Thr Asp
 100 105 110
 Ala Leu Lys Ala Leu Thr Gln Pro Glu Ala Lys Thr Asn Ser Glu Thr
 115 120 125
 Thr Thr Glu Glu Glu Glu Leu Ala Gly Leu Ser Ala Leu Met Ala Met
 130 135 140
 Leu Pro His Gln Gln Thr Thr Thr Pro Val Ala Thr Gln Pro Ala Ser
 145 150 155 160
 Thr Gly Glu Ile Ala Pro Arg Ala Ala Leu Pro Ser Ala Leu Ala Gln
 165 170 175
 Thr Asp Asn Gly Gln His Gln Pro Leu Ser His Ala Leu Thr Gly Gln
 180 185 190
 Glu Lys Met Pro Val Gln Asp Ser Asp Thr Ser Leu Pro Ala Thr Ala
 195 200 205
 Ala Val Thr Pro Ala Val Ala Ala Val Ala Glu Lys Gln Asp Val Ala
 210 215 220
 Ser Ala Ala Ser Pro Ala Ala Ser Pro Thr Ala Thr Leu Ala Pro Ile
 225 230 235 240
 Val Ser His Leu Ala Pro Ser Gln Pro Ala Ala Thr Val Ala Thr Ala
 245 250 255
 Pro Val Leu Ser Gln Pro Leu Gly Thr His Glu Trp Gln Gln Asn Leu
 260 265 270
 Ser Gln His Ile Thr Leu Phe Thr Arg Gln Gly Gln Gln Thr Ala Glu
 275 280 285
 Leu Arg Leu His Pro Glu Asp Leu Gly Gln Val Gln Ile Ser Leu Lys
 290 295 300
 Leu Asp Asp Asn Gln Ala Gln Leu Gln Met Val Ser Pro His Ser His
 305 310 315 320
 Val Arg Ala Ala Leu Glu Ala Ala Leu Pro Ile Leu Arg Thr Gln Leu
 325 330 335
 Ala Glu Asn Gly Ile Gln Leu Ser Gln Ser Ser Val Ser Ser Glu Gly
 340 345 350
 Phe Ala Gly Gln Gln Gln Ser Ser Ser Gly Gln Gln Gln His Ala Ser
 355 360 365
 Arg Ser Gly Gln His Gly Gly Phe Asn Asp Glu Ser Glu Glu Leu Leu
 370 375 380
 Pro Ala Pro Ala Ala Leu Gln Ser Ala Ala Arg Gly Ser Arg Ala Val
 385 390 395 400

Asp Ile Phe Ala

405

<210> 8163

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 8163

```

Ile Arg Arg Thr Tyr His Arg His His Tyr Pro Phe Arg Thr Tyr Ala
1          5          10          15
Ser Ser Glu Pro Leu Ser Met Lys Thr Gln Ala Thr Leu Ser Ala Pro
20
Ser Ala Val Pro Gly Ser Pro Leu Leu Gln Val Ser Gly Ala Leu Phe
35          40          45
Gly Ile Ile Ala Phe Ile Leu Ile Ala Ala Trp Leu Ala Lys Arg Phe
50          55          60
Gly Leu Ala Gly Lys Thr Ala Gly Thr Arg Gly Leu Lys Val Ser Ala
65          70          75          80
Ser Thr Pro Leu Gly Pro Arg Glu Arg Val Ile Val Glu Val Glu
85          90          95
Asp Ala Arg Leu Val Leu Gly Val Thr Ala Ser Ser Ile Asn Val Leu
100          105          110
His Thr Leu Pro Pro Ala Pro Ala Thr Val Glu Ala Asn Ala Gln Ala
115          120          125
Pro Ala Asp Phe Gln Ser Val Met Lys Ser Leu Leu Lys Arg Pro Gly
130          135          140
Arg Ser
145

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<210> 8164

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 8164

```

Trp Phe Arg Pro Arg Pro Leu Pro Cys Pro Leu Arg Ser Cys Cys Ser
1          5          10          15
Cys Trp Ser Thr Ala Gly Ser Cys Trp Ser Ala Arg Trp Arg Arg Val
20
Ser Thr Val Glu Glu Arg Ala Met Thr Pro Glu Ser Val Met Met Met
35          40          45
Gly Thr Glu Ala Met Lys Val Ala Ile Ala Val Ala Ala Pro Leu Leu
50          55          60
Leu Val Ala Leu Val Thr Gly Leu Ile Ile Ser Ile Leu Gln Ala Ala
65          70          75          80
Thr Gln Ile Asn Glu Met Thr Leu Ser Phe Ile Pro Lys Ile Ile Ala
85          90          95
Val Phe Val Ala Ile Ile Val Ala Gly Pro Trp Met Leu Asn Leu Leu
100          105          110
Leu Asp Tyr Met Arg Asn Leu Phe Thr Asn Leu Pro Tyr Ile Ile Gly
115          120          125

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<210> 8165

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8165

jc530 u.s. Pto
09/25/99
02/16/99

Arg Thr Met Leu His Phe Thr Ser Asp Gln Phe Val Gln Trp Leu Gly
1 5 10 15
Ile Tyr Phe Trp Pro Met Leu Arg Ile Met Ala Leu Ile Ser Thr Ala
20 25 30
Pro Ile Leu Ser Glu Lys Ser Val Pro Lys Arg Val Lys Ile Gly Leu
35 40 45
Gly Met Val Ile Thr Ile Ile Val Ala Pro Ser Leu Pro Ala Val Asp
50 55 60
Ile Pro Ile Phe Ser Pro Asn Ala Ile Trp Ile Ala Leu Gln Gln Val
65 70 75 80
Met Ile Gly Val Ala Val Gly Phe Thr Met Gln Leu Ala Phe Ala Ala
85 90 95
Val Arg Thr Ala Gly Glu Leu Ile Gly Leu Gln Met Gly Leu Ser Phe
100 105 110
Ala Thr Phe Val Asp Pro Gly Ser His Leu Asn Met Pro Val Leu Ala
115 120 125
Arg Ile Ile Asp Leu Leu Ala Met Leu Leu Phe Leu Ser Phe Asn Gly
130 135 140
His Leu Trp Leu Ile Ser Met Leu Val Asp Thr Phe His Thr Leu Pro
145 150 155 160
Ile Gly Asp Asn Pro Val Asn Ser Asn Ala Phe Leu Ala Leu Val Arg
165 170 175
Ala Ala Gly Leu Ile Phe Leu Asn Gly Leu Met Leu Ala Leu Pro Ile
180 185 190
Ile Thr Leu Leu Leu Thr Val Asn Leu Ala Leu Gly Leu Leu Asn Arg
195 200 205
Met Ala Pro Gln Leu Ser Val Phe Val Ile Gly Phe Pro Val Thr Leu
210 215 220
Thr Val Gly Leu Leu Leu Met Ser Leu Leu Met Pro Leu Ile Ala Pro
225 230 235 240
Phe Cys Glu His Leu Phe Ser Glu Ile Phe Asn Leu Leu Ala Asp Ile
245 250 255
Val Ser Glu Leu Pro Arg Lys
260

<210> 8166
<211> 211
<212> PRT
<213> Enterobacter cloacae

<400> 8166
Gly Tyr Ala Met Ser Thr Ile Ile Met Asp Leu Cys Arg Tyr Thr Arg
1 5 10 15
Leu Gly Leu Thr Gly Tyr Leu Ala Ser Arg Gly Val Arg Lys Arg Asp
20 25 30
Ile Asn Asp Ala His Thr Val Glu Glu Leu Ala Ala Cys Asp Ala
35 40 45
His Lys Pro Gly Val Val Phe Ile Asn Glu Asp Cys Phe Ile His Asp
50 55 60
Pro Ala Asn Ser Gln His Ile Lys Gln Ile Ile Asn Gln His Pro Lys
65 70 75 80
Thr Leu Phe Ile Val Phe Met Ala Ile Ala Asn Ile His Phe Asp Glu
85 90 95
Tyr Leu Leu Val Arg Lys Asn Leu Leu Ile Ser Ser Lys Ser Ile Lys
100 105 110
Pro Glu Ser Leu Asp Asp Ile Leu Gly Asp Tyr Leu Asn Lys Glu Val
115 120 125
Lys Asn Val Gly Ala Ile Asn Leu Pro Thr Leu Ser Leu Ser Arg Thr
130 135 140
Glu Ser Ser Met Leu Arg Met Trp Met Ala Gly Gln Gly Thr Ile Gln
145 150 155 160

Ile Ser Asp Gln Met Asn Ile Lys Ala Lys Thr Val Ser Ser His Lys
 165 170 175
 Gly Asn Ile Lys Arg Lys Ile Lys Thr His Asn Lys Gln Val Ile Tyr
 180 185 190
 His Val Val Arg Leu Thr Asp Asn Val Thr Asn Gly Ile Phe Val Asn
 195 200 205
 Met Arg
 210

<210> 8167

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 8167

Ile Leu Val Met Ser Ile Asn Leu Arg Arg Val Trp Val Cys Arg Asp
 1 5 10 15
 Arg Phe His Leu Asn Gly Ala Ser Met Pro Ile Phe Phe Lys Ile Phe
 20 25 30
 Leu Arg Lys Asn His His Pro Gly Asp Ile Met Pro Ser Leu Glu Glu
 35 40 45
 Thr Leu Leu Val Phe Thr Asp Leu Asp Gly Thr Leu Leu Asp Phe His
 50 55 60
 Thr Leu Asp Trp Gln Pro Ala Ala Pro Trp Leu Glu Lys Leu Met Asp
 65 70 75 80
 Glu Gln Ile Pro Val Ile Leu Cys Ser Ser Lys Thr Ala Ser Glu Met
 85 90 95
 Asp Asp Ile Gln Gln Glu Leu Gly Leu Gly Gly Leu Pro Tyr Ile Ala
 100 105 110
 Glu Asn Gly Ala Val Ile Gln Pro Asp Val Arg Trp Glu Asn Ala Ala
 115 120 125
 Arg Phe Ile Ser Glu Lys Lys His Asp Glu Ile Arg Gln Cys Ile Ala
 130 135 140
 Arg Val Arg Gln Glu Met His Leu Lys Phe Thr Thr Phe Asp Asp Val
 145 150 155 160
 Asp Glu His Val Val Ala Glu Trp Thr Gly Leu Ser Arg Pro Arg Ser
 165 170 175
 Val Leu Ala Arg Lys His Glu Ala Ser Val Thr Leu Ile Trp Arg Asp
 180 185 190
 Ser Asp Glu Gln Met Lys Tyr Phe Ala Ala Glu Leu Ala Arg Gln Arg
 195 200 205
 Leu Lys Ile Val Gln Gly Ala Arg Phe Trp His Ile Leu Asp Thr Cys
 210 215 220
 Cys Gly Lys Asp Val Ala Val His Trp Leu Val Asp Gln Tyr Arg Leu
 225 230 235 240
 His Glu Gly Tyr Glu Pro Thr Thr Leu Gly Leu Gly Asp Gly Pro Asn
 245 250 255
 Asp Ala Pro Leu Leu Asp Ser Val Gly Phe Ala Val Val Lys Gly
 260 265 270
 Phe Asn Arg Glu Gly Ile Ser Leu Ile Asn Asn Asp Pro Ala Arg Val
 275 280 285
 Tyr His Thr Gln His Thr Gly Pro Thr Gly Trp Cys Glu Gly Leu Asp
 290 295 300
 Tyr Phe Leu Arg
 305

<210> 8168

<211> 474

<212> PRT

<213> Enterobacter cloacae

<400> 8168

Gly Ile Asn Met Ala Ser Ile Ser Thr Leu Gly Val Gly Ser Gly Leu
 1 5 10 15
 Gln Leu Gly Asp Ile Leu Asp Ser Leu Thr Ala Ala Gln Lys Ala Gln
 20 25 30
 Leu Thr Pro Ile Ser Lys Gln Gln Thr Ser Tyr Thr Ala Lys Leu Ser
 35 40 45
 Ala Tyr Gly Thr Leu Lys Ser Ala Leu Glu Ser Phe Gln Thr Ala Asn
 50 55 60
 Thr Ala Leu Ser Lys Ala Asp Leu Phe Thr Ala Thr Thr Thr Ala Ser
 65 70 75 80
 Ser Ser Thr Ala Phe Ser Ala Thr Thr Ser Gly Ser Ala Ile Ala Gly
 85 90 95
 Lys Tyr Thr Ile Asn Val Ser Gln Leu Ala Gln Ala Gln Thr Leu Thr
 100 105 110
 Thr Ala Lys Thr Gln Ser Asp Asn Lys Thr Ala Ile Ala Thr Ala Asp
 115 120 125
 Ser Thr Ile Thr Ile Gln Gln Gly Gly Asp Lys Lys Pro Val Thr Ile
 130 135 140
 Asn Ile Ser Ala Glu Asn Ser Ser Leu Ser Gly Ile Arg Asp Ala Ile
 145 150 155 160
 Asn Lys Ala Asp Ala Gly Val Ser Ala Ser Ile Ile Asn Val Gly Asn
 165 170 175
 Gly Glu Tyr Arg Leu Ser Ile Thr Ser Lys Asp Thr Gly Lys Asp Asn
 180 185 190
 Ala Met Thr Ile Ser Val Ser Gly Asp Thr Ala Leu Gln Ser Phe Met
 195 200 205
 Gly Tyr Asn Gly Asn Ser Ala Asp Thr Ala Asn Gly Met Met Glu Ser
 210 215 220
 Val Thr Ala Gln Asn Ala Leu Leu Lys Val Asn Asn Val Asp Ile Glu
 225 230 235 240
 Asn Ser Ser Asn Thr Ile Ser Asp Ala Leu Glu Asp Ile Thr Leu Asn
 245 250 255
 Leu Asn Asp Val Thr Thr Gly Asn Gln Thr Leu Thr Ile Thr Thr Asp
 260 265 270
 Asn Thr Lys Ala Thr Lys Ala Ile Asn Asp Trp Val Thr Ala Tyr Asn
 275 280 285
 Ser Leu Gln Asp Thr Phe Ser Ser Leu Thr Lys Tyr Thr Ala Val Asp
 290 295 300
 Ala Gly Ser Asp Ala Gln Asn Thr Ser Asn Gly Ala Leu Leu Gly Asp
 305 310 315 320
 Ser Thr Leu Arg Thr Ile Gln Thr Gln Leu Arg Ser Val Leu Asn Asn
 325 330 335
 Pro His Thr Ser Ser Asn Ile Lys Thr Leu Ala Gln Ala Gly Ile Thr
 340 345 350
 Thr Asp Pro Ser Thr Gly Lys Leu Glu Val Asp Asp Asp Lys Leu Ser
 355 360 365
 Ala Ala Met Lys Asn Ser Ala Ala Gly Ile Lys Asp Leu Leu Ile Gly
 370 375 380
 Asp Gly Lys Thr Ser Gly Ile Thr Thr Thr Val Gly Thr Asn Leu Thr
 385 390 395 400
 Gly Trp Leu Ser Ser Thr Gly Ile Ile Gln Ala Ala Lys Asp Gly Val
 405 410 415
 Ser Lys Thr Leu Asn Asn Leu Thr Lys Gln Tyr Asn Ala Ala Ser Glu
 420 425 430
 Arg Ile Asp Thr Met Val Ala Arg Tyr Lys Glu Gln Phe Thr Gln Leu
 435 440 445
 Asp Val Met Met Asn Ser Leu Asn Ser Thr Ser Ser Tyr Leu Thr Gln
 450 455 460
 Gln Phe Glu Asn Thr Ser Ser Asn Lys
 465 470

<210> 8169
 <211> 146
 <212> PRT
 <213> Enterobacter cloacae

<400> 8169

```

Thr Leu Ile Arg Pro Glu Gly Asp Asn Met Tyr Gly Ala Lys Gly Thr
1      5      10      15
Gln Ala Tyr Ala Lys Ile Glu Val Glu Ser Ala Val Met Ser Ala Ser
      20      25      30
Gln Gln Gln Leu Val Ile Met Leu Phe Asp Gly Ala Leu Ser Ala Leu
      35      40      45
Val Arg Ala Arg Leu Phe Leu Ala Asp Gly Asn Ile Pro Ala Lys Gly
      50      55      60
Leu Ala Leu Ser Lys Ala Ile Asn Ile Ile Glu Asn Gly Leu Lys Val
      65      70      75      80
Gly Leu Val Glu Asn Asn Gly Asp Glu Leu Thr Gln Asn Leu Ile Ala
      85      90      95
Leu Tyr Ala Tyr Met Val Arg Arg Leu Leu His Ala Asn Val Asn Asn
      100      105      110
Asp Ala Ser Ala Ile Glu Glu Val Glu Asn Leu Leu Arg Asn Ile Ala
      115      120      125
Asp Gly Trp Lys Glu Val Ala Gly Thr Pro Gln Leu Met Gln Asp Ala
      130      135      140
Val
145

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<210> 8170
 <211> 359
 <212> PRT
 <213> Enterobacter cloacae

<400> 8170

```

Ala Ser Ala Phe Ala Lys Cys Gln Ile Thr Ile Arg Ala Ser Ser Arg
1      5      10      15
Trp Ser Ser Ala Val Gly Trp Val Thr Asn Met Ser Asn Thr Leu Thr
      20      25      30
Gly Thr Asp Lys Ser Val Ile Leu Leu Met Thr Ile Gly Glu Asp Arg
      35      40      45
Ala Ala Glu Val Phe Lys His Leu Ser Gln Arg Glu Val Gln Ile Leu
      50      55      60
Ser Ala Ala Met Ala Asn Val Arg Gln Ile Ser Asn Lys Gln Leu Thr
      65      70      75      80
Glu Val Leu Ala Glu Phe Glu Gln Glu Ala Glu Gln Phe Ala Ala Leu
      85      90      95
Asn Val Asn Ala Asn Glu Tyr Leu Arg Ser Val Leu Val Lys Ala Leu
      100      105      110
Gly Glu Glu Arg Ala Ala Ser Leu Leu Glu Asp Ile Leu Glu Thr Arg
      115      120      125
Asp Thr Ala Ser Gly Ile Glu Thr Leu Asn Phe Met Glu Pro Gln Ser
      130      135      140
Ala Ala Asp Leu Ile Arg Asp Glu His Pro Gln Ile Ile Ala Thr Ile
      145      150      155      160
Leu Val His Leu Lys Arg Gly Gln Ala Ala Asp Ile Leu Ala Leu Phe
      165      170      175
Asp Glu Arg Leu Arg His Asp Val Met Leu Arg Ile Ala Thr Phe Gly
      180      185      190
Gly Val Gln Pro Ala Ala Leu Ala Glu Leu Thr Glu Val Leu Asn Asn
      195      200      205
Leu Leu Asp Gly Gln Asn Leu Lys Arg Ser Lys Met Gly Gly Val Arg

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210 215 220
 Thr Ala Ala Glu Ile Ile Asn Leu Met Lys Thr Gln Gln Glu Glu Ala
 225 230 235 240
 Val Ile Thr Ala Val Arg Glu Phe Asp Gly Glu Leu Ala Gln Lys Ile
 245 250 255
 Ile Asp Glu Met Phe Leu Phe Glu Asn Leu Val Glu Val Asp Asp Arg
 260 265 270 275
 Ser Ile Gln Arg Leu Leu Gln Glu Val Asp Ser Glu Ser Leu Leu Ile
 280 285
 Ala Leu Lys Gly Ala Glu Gln Pro Leu Arg Glu Lys Phe Leu Arg Asn
 290 295 300
 Met Ser Gln Arg Ala Ala Asp Ile Leu Arg Asp Asp Leu Ala Asn Arg
 305 310 315 320
 Gly Pro Val Arg Leu Ser Gln Val Glu Asn Glu Gln Lys Ala Ile Leu
 325 330 335
 Leu Ile Val Arg Arg Leu Ala Glu Thr Gly Glu Met Val Ile Gly Ser
 340 345 350
 Gly Asp Asp Thr Tyr Val
 355

<210> 8171

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 8171

Gly Arg Ser Gly Cys Gln Arg Arg Asp Pro Leu Ala Gly Thr Val Pro
 1 5 10 15
 Pro Gly Gly Thr Gly Ser Arg Leu Met Thr Ala Arg Leu Thr Arg Trp
 20 25 30
 Leu Asn Thr Leu Asp Asn Phe Glu Thr Lys Met Ala Gln Leu Pro Ser
 35 40 45
 Val Arg Arg Tyr Gly Arg Leu Thr Arg Ala Thr Gly Leu Val Leu Glu
 50 55 60
 Ala Thr Gly Leu Gln Leu Pro Leu Gly Ala Thr Cys Val Ile Glu Arg
 65 70 75 80
 Gln Asp Gly Gly Glu Thr Arg Glu Val Glu Ser Glu Val Val Gly Phe
 85 90 95
 Asn Gly Gln Arg Leu Phe Leu Met Pro Leu Glu Glu Val Glu Gly Ile
 100 105 110
 Leu Pro Gly Ala Arg Val Tyr Ala Lys Asn Ile Ser Gly Asp Gly Leu
 115 120 125
 Gln Ser Gly Lys Gln Leu Pro Leu Gly Pro Ala Leu Leu Gly Arg Val
 130 135 140
 Leu Asp Gly Ser Gly Lys Pro Leu Asp Gly Leu Pro Ser Pro Asp Thr
 145 150 155 160
 Thr Glu Thr Gly Ala Leu Ile Thr Gln Pro Phe Asn Pro Leu Gln Arg
 165 170 175
 Thr Pro Ile Glu His Val Leu Asp Thr Gly Val Arg Pro Ile Asn Ala
 180 185 190
 Leu Leu Thr Val Gly Arg Gly Gln Arg Met Gly Leu Phe Ala Gly Ser
 195 200 205
 Gly Val Gly Lys Ser Val Leu Leu Gly Met Met Ala Arg Tyr Thr Gln
 210 215 220
 Ala Asp Val Ile Val Val Gly Leu Ile Gly Glu Arg Gly Arg Glu Val
 225 230 235 240
 Lys Asp Phe Ile Glu Asn Ile Leu Gly Thr Glu Gly Arg Ala Arg Ser
 245 250 255
 Val Val Ile Ala Ala Pro Ala Asp Val Ser Pro Leu Leu Arg Met Gln
 260 265 270
 Gly Ala Ala Tyr Ala Thr Arg Ile Ala Glu Asp Phe Arg Asp Arg Gly

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      275              280              285
Gln His Val Leu Leu Ile Met Asp Ser Leu Thr Arg Tyr Ala Met Ala
290              295              300
Gln Arg Glu Ile Ala Leu Ala Ile Gly Glu Pro Ala Thr Lys Gly
305              310              315
Tyr Pro Pro Ser Val Phe Ala Lys Leu Pro Ala Leu Val Glu Arg Ala
      325              330              335
Gly Asn Gly Ile Ser Gly Gly Gly Ser Ile Thr Ala Phe Tyr Thr Val
      340              345              350
Leu Thr Glu Gly Asp Asp Gln Gln Asp Pro Ile Ala Asp Ser Ala Arg
      355              360              365
Ala Ile Leu Asp Gly His Ile Val Leu Ser Arg Arg Leu Ala Glu Ala
      370              375              380
Gly His Tyr Pro Ala Ile Asp Ile Glu Ala Ser Ile Ser Arg Ala Met
      385              390              395
Thr Ala Leu Ile Thr Glu Gln His Tyr Ala Arg Val Arg Asn Phe Lys
      405              410              415
Gln Leu Leu Ser Ser Phe Gln Arg Asn Arg Asp Leu Val Ser Val Gly
      420              425              430
Ala Tyr Ala Lys Gly Ser Asp Pro Met Leu Asp Lys Ala Ile Ala Leu
      435              440              445
Trp Pro Gln Leu Glu Ala Phe Leu Gln Gln Gly Ile Phe Glu Arg Ala
      450              455              460
Asp Trp Glu Asp Ser Leu Gln Ala Leu Glu Leu Ile Phe Pro Gln Val
      465              470              475              480

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<210> 8172

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8172

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His Arg Trp Arg Ala Lys Val Met Ala Gln Asn Ser Ala Leu Ser Thr
1              5              10              15
Leu Lys Asp Leu Ala Glu Lys Glu Val Asp Asp Ala Ala Leu Gln Leu
      20              25              30
Gly Ala Met Arg Arg Gly Cys Gln Gln Ala Glu Glu Gln Leu Lys Met
      35              40              45
Leu Ile Asp Tyr Gln His Glu Tyr Arg Thr Asn Leu Asn Thr Asp Met
      50              55              60
Thr Gln Gly Ile Gly Ser Gln Arg Trp Ile Asn Tyr Gln Gln Phe Ile
      65              70              75              80
Gln Thr Leu Glu Lys Ala Ile Glu Gln His Arg Gln Gln Leu Asn Gln
      85              90              95
Trp Thr Gln Lys Val Asp Thr Ala Leu Asn Phe Trp Arg Glu Lys Lys
      100              105              110
Gln Arg Leu Gln Ala Trp Gln Thr Leu Gln Asp Arg Gln Ile Ala Ala
      115              120              125
Ser Thr Leu Ala Glu Asn Arg Leu Asp Gln Lys Lys Met Asp Glu Phe
      130              135              140
Ala Gln Arg Ala Ser Met Arg Lys Pro Glu
      145              150              155

```

<210> 8173

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 8173

Ala Gly His Gly Ile Ile Thr Val Leu Ser Cys Thr Glu Thr Gly Ser
 1 5 10 15
 Ser Tyr Gln Met Thr Asp Ser Ala Ile Thr Lys Lys Ser Lys Arg Ser
 20 25 30
 Ile Trp Ile Pro Leu Leu Val Leu Ile Thr Leu Ala Ala Cys Ala Thr
 35 40 45
 Ala Gly Tyr Ser Tyr Trp Arg Met Gln Gln Glu Pro Ser Ser Ala Ala
 50 55 60
 Ala Lys Ala Glu Ala Pro Pro Pro Ala Pro Val Phe Tyr Pro Leu
 65 70 75 80
 Asp Thr Phe Thr Val Asn Leu Gly Asp Ala Asp Arg Val Leu Tyr Val
 85 90 95
 Gly Ile Thr Leu Arg Leu Lys Asp Glu Ala Thr Arg Ala Arg Leu Asn
 100 105 110
 Asp Tyr Leu Pro Glu Val Arg Ser Arg Leu Leu Leu Phe Ser Arg
 115 120 125
 Gln Asp Ala Ser Ala Leu Ala Thr Asp Val Gly Lys Gln Lys Leu Val
 130 135 140
 Asp Ala Ile Lys Gln Thr Leu Ala Thr Pro Leu Val Asn Gly Gln Pro
 145 150 155 160
 Lys Gln Glu Val Thr Asp Val Leu Tyr Thr Ala Phe Ile Leu Arg
 165 170 175

<210> 8174

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 8174

Gly Thr Ala Gln Met Ser Asp Met Asn Asn Pro Ser Asp Glu Asn Ser
 1 5 10 15
 Gly Ala Leu Asp Asp Leu Trp Ala Asp Ala Leu Asn Glu Gln Lys Thr
 20 25 30
 Thr Pro Thr Lys Ser Ala Ala Asp Ala Val Phe Gln Gln Leu Gly Gly
 35 40 45
 Gly Asp Val Ser Gly Thr Leu Gln Asp Ile Asp Leu Ile Met Asp Ile
 50 55 60
 Pro Val Lys Leu Thr Val Glu Leu Gly Arg Thr Arg Met Thr Ile Lys
 65 70 75 80
 Glu Leu Leu Arg Leu Thr Gln Gly Ser Val Val Ala Leu Asp Gly Leu
 85 90 95
 Ala Gly Glu Pro Leu Asp Ile Leu Ile Asn Gly Tyr Leu Ile Ala Gln
 100 105 110
 Gly Glu Val Val Val Ala Asp Lys Tyr Gly Val Arg Ile Thr Asp
 115 120 125
 Ile Ile Thr Pro Ser Glu Arg Met Arg Arg Leu Ser Arg
 130 135 140

<210> 8175

<211> 520

<212> PRT

<213> Enterobacter cloacae

<400> 8175

Pro Phe Arg Ser Pro Gly Ile Ser Ala Lys Pro Ala Pro Tyr Leu Ser
 1 5 10 15
 Phe Ala Thr Ser Trp Arg Trp Cys Met Arg Asn Pro Thr Leu Gln
 20 25 30
 Cys Phe His Trp Tyr Tyr Pro Thr Gly Gly Glu Leu Trp Arg Glu Val
 35 40 45
 Thr Ala Leu Ala Pro Asn Leu Asn Glu Ile Gly Ile Asn Met Val Trp

50	55	60
Leu Pro Pro Ala Tyr Lys Gly Ala Ser Gly Gly Tyr Ser Val Gly Tyr		
65	70	75
Asp Ser Tyr Asp Leu Phe Asp Leu Gly Glu Phe Asp Gln Lys Gly Ser		80
	85	90
Val Ala Thr Lys Tyr Gly Asp Lys Ala Gln Leu Leu Glu Ala Ile Asn		95
	100	105
Ala Leu Lys Ser Asn Gln Ile Ala Val Leu Leu Asp Val Val Val Asn		110
	115	120
His Lys Met Gly Ala Asp Glu Lys Glu Pro Val Arg Val Gln Arg Val		125
	130	135
Asp Ala Gln Asp Arg Thr Gln Ile Ser Asp Glu Ile Ile Glu Cys Glu		140
	145	150
Ala Trp Thr Arg Tyr Thr Phe Pro Val Arg Ala Gly Gln Tyr Ser Gln		155
	165	170
Phe Ile Trp Asp Tyr Lys Cys Phe Ser Gly Ile Asp His Ile Glu Asn		175
	180	185
Pro Asn Glu Asp Gly Ile Phe Lys Ile Val Asn Asp Tyr Thr Gly Glu		190
	195	200
Gly Trp Asn Asp Gln Val Asp Asp Glu Met Gly Asn Phe Asp Tyr Leu		205
	210	215
Met Gly Glu Asn Ile Asp Phe Arg Asn His Ala Val Thr Glu Glu Ile		220
	225	230
Lys Tyr Trp Ala Arg Trp Val Met Glu Gln Thr His Cys Asp Gly Phe		235
	245	250
Arg Leu Asp Ala Val Lys His Ile Pro Ala Trp Phe Tyr Lys Glu Trp		255
	260	265
Ile Glu His Val Gln Glu Val Ala Pro Gln Pro Leu Phe Ile Val Ala		270
	275	280
Glu Tyr Trp Ser His Glu Val Asp Lys Leu Gln His Tyr Ile Asn Gln		285
	290	295
Val Asp Gly Lys Thr Met Leu Phe Asp Ala Pro Leu Gln Met Lys Phe		300
	305	310
His Glu Ala Ser Arg Gln Gly Arg Asp Tyr Asp Met Ser Gln Ile Phe		315
	325	330
Thr Gly Thr Leu Val Glu Ala Asp Pro Phe His Ala Val Thr Leu Val		335
	340	345
Ala Asn His Asp Thr Gln Pro Leu Gln Ala Leu Glu Ala Pro Val Glu		350
	355	360
Ala Trp Phe Lys Pro Leu Ala Tyr Ala Leu Ile Leu Leu Arg Glu Asn		365
	370	375
Gly Val Pro Ser Val Phe Tyr Pro Asp Leu Phe Gly Ala Ser Tyr Asp		380
	385	390
Asp Thr Gly Gly Asp Gly Glu Thr Tyr His Ile Asp Met Pro Val Ile		395
	405	410
Glu Gln Leu His Glu Leu Ile Leu Ala Arg Gln Arg Phe Ala His Gly		415
	420	425
Val Gln Thr Leu Phe Phe Asp His Pro Asn Cys Ile Ala Phe Ser Arg		430
	435	440
Ser Gly Thr Glu Glu His Pro Gly Cys Val Val Val Leu Ser Asn Gly		445
	450	455
Asp Asp Gly Glu Lys Thr Ile Cys Leu Gly Glu Asn Tyr Gly Asn Lys		460
	465	470
Thr Trp Arg Asp Phe Leu Gly Asn Arg Glu Glu Thr Val Thr Thr Ala		475
	485	490
Ala Asp Gly Glu Gly Thr Phe Phe Cys Asn Gly Gly Ser Val Ser Val		495
	500	505
Trp Val Ile Glu Asp Ala Leu		510
	515	520

<211> 243
 <212> PRT
 <213> Enterobacter cloacae

<400> 8176

```

Leu Ala Ala Glu Thr Thr Pro Met Ser Asp Glu Leu Ser Trp Lys Arg
1      5      10      15
Trp Thr Pro Asp Asp Leu Ser Pro Pro Ser Ala Glu Phe Thr Pro Ala
      20      25
Val Val Ser Ser Asp Glu Gly Asp Ala Gly Ala Gly Glu Pro Glu Leu
      35      40      45
Ser Glu Glu Glu Gln Arg Ala Gln Leu Leu Ala Gln Met Gln Met Gln
      50      55      60
Ala His Glu Gln Gly Phe Asn Ala Gly Met Asn Glu Gly Arg Gln Thr
65      70      75      80
Gly His Ala Gln Gly Tyr Gln Glu Gly Leu Ala Lys Gly Leu Glu Gln
      85      90      95
Gly Ile Glu Gln Ala Arg Gln Gln Gln Ala Pro Leu His Ala Arg Met
      100      105      110
Gln Gln Leu Val Ser Glu Phe Gln His Thr Leu Asp Ala Leu Asp Ser
      115      120      125
Val Ile Ala Ser Arg Leu Met Gln Met Ala Leu Glu Ala Ala Arg Gln
130      135      140
Val Ile Gly Gln Thr Pro Ile Val Asp Asn Ala Ala Leu Ile Lys Gln
145      150      155      160
Ile Gln Gly Leu Leu Gln Gln Glu Pro Leu Phe Ser Gly Lys Pro Gln
      165      170      175
Leu Arg Val His Pro Asp Asp Leu Gln Arg Val Glu Glu Ser Leu Gly
      180      185      190
Ala Thr Leu Ser Leu His Gly Trp Arg Leu Arg Gly Asp Pro Ser Leu
      195      200      205
His His Gly Gly Cys Lys Val Ser Ala Asp Glu Gly Asp Leu Asp Ala
210      215      220
Ser Val Ala Thr Arg Trp Gln Glu Leu Cys Arg Leu Ala Ala Pro Gly
225      230      235      240
Val Val

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<210> 8177
 <211> 356
 <212> PRT
 <213> Enterobacter cloacae

<400> 8177

```

Thr Ala Asn Leu Ser Arg Lys Ser Leu Thr Phe Cys Ile Gln Pro Ser
1      5      10      15
Phe Cys Gly Asn Asp Met Gly Asp Ser Ile Leu Ser Gln Ala Glu Ile
      20      25      30
Asp Ala Leu Leu Asn Gly Asp Ser Asp Lys Ser Asp Glu Pro Lys Pro
      35      40      45
Gly Leu Thr Gly Asp Asp Asn Ile Arg Pro Tyr Asp Pro Asn Thr Gln
      50      55      60
Arg Arg Val Val Arg Glu Arg Leu Gln Ala Leu Glu Ile Ile Asn Glu
65      70      75      80
Arg Phe Ala Arg Gln Phe Arg Met Gly Leu Phe Asn Leu Leu Arg Arg
      85      90      95
Ser Pro Asp Ile Thr Val Gly Ala Ile Arg Ile Gln Pro Tyr His Glu
100      105      110
Phe Ala Arg Asn Leu Pro Val Pro Thr Asn Leu Asn Leu Ile His Leu
115      120      125
Lys Pro Leu Arg Gly Thr Gly Leu Val Val Phe Ser Pro Ser Leu Val

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130          135          140
Phe Ile Ala Val Asp Asn Leu Phe Gly Gly Asp Gly Arg Phe Pro Thr
145          150          155          160
Lys Val Glu Gly Arg Glu Phe Thr His Thr Glu Gln Arg Val Ile Asn
165          170          175
Arg Met Leu Lys Leu Ala Leu Glu Ser Tyr Ser Asp Ala Trp Lys Ala
180          185          190
Ile Asn Pro Leu Glu Val Glu Tyr Val Arg Ser Glu Met Gln Val Lys
195          200          205
Phe Thr Asn Ile Thr Thr Ser Pro Asn Asp Ile Val Val Asn Thr Pro
210          215          220
Phe His Val Glu Ile Gly Asn Leu Thr Gly Glu Phe Asn Ile Cys Leu
225          230          235          240
Pro Phe Ser Met Ile Glu Pro Leu Arg Glu Leu Val Asn Pro Pro
245          250          255
Leu Glu Asn Ser Arg His Glu Asp Gln Asn Trp Arg Glu Asn Leu Val
260          265          270
Arg Gln Val Gln His Ser Gln Leu Glu Leu Val Ala Asn Phe Ala Asp
275          280          285
Ile Ser Met Arg Leu Ser Gln Ile Leu Lys Leu Gln Pro Gly Asp Val
290          295          300
Leu Pro Ile Asp Lys Pro Asp Arg Ile Ile Ala His Val Asp Gly Val
305          310          315          320
Pro Val Leu Thr Ser Gln Tyr Gly Thr Ile Asn Gly Gln Tyr Ala Leu
325          330          335
Arg Val Glu His Leu Ile Asn Pro Ile Leu Asn Ser Leu Asn Glu Glu
340          345          350
Gln Pro Lys
355

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<210> 8178

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 8178

```

Arg Pro Gly Pro Cys Gly Phe Pro Val Arg Tyr Glu Glu Phe Ala Gln
1          5          10          15
Ala Ser Arg Glu Ile Leu Met Arg Arg Leu Leu Phe Leu Thr Leu Ala
20          25          30
Gly Leu Gly Leu Phe Ala Pro Ser Val Tyr Ala Gln Leu Pro Gly Leu
35          40          45
Val Ser Thr Pro Leu Ala Asn Gly Gly Gln Ser Trp Ser Leu Ser Val
50          55          60
Gln Thr Leu Val Phe Ile Thr Ser Leu Thr Phe Ile Pro Ala Ile Leu
65          70          75          80
Leu Met Met Thr Ser Phe Thr Arg Ile Ile Ile Val Phe Gly Leu Leu
85          90          95
Arg Asn Ala Leu Gly Thr Pro Ser Ala Pro Asn Gln Val Leu Leu
100          105          110
Gly Leu Ala Leu Phe Leu Thr Phe Phe Ile Met Ser Pro Val Ile Asp
115          120          125
Lys Ile Tyr Thr Glu Ala Tyr Gln Pro Phe Ser Glu Asp Lys Ile Ser
130          135          140
Met Gln Val Ala Leu Glu Lys Gly Ala Gln Pro Leu Arg Glu Phe Met
145          150          155          160
Leu Arg Gln Thr Arg Glu Ala Asp Leu Ala Leu Phe Ala Arg Leu Ala
165          170          175
Asn Thr Gly Glu Leu Gln Gly Pro Glu Ala Val Pro Met Arg Ile Leu
180          185          190
Leu Pro Ala Tyr Val Thr Ser Glu Leu Lys Thr Ala Phe Gln Ile Gly

```

195 200 205
 Phe Thr Ile Phe Ile Pro Phe Leu Ile Ile Asp Leu Val Ile Ala Ser
 210 215 220
 Val Leu Met Ala Leu Gly Met Met Met Val Pro Ala Thr Ile Ala
 225 230 235
 Leu Pro Phe Lys Ile Met Leu Phe Val Leu Val Asp Gly Trp Gln Leu
 245 250 255
 Leu Val Ser Ser Leu Ala Gln Ser Phe Tyr Ser
 260 265

<210> 8179

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8179

Leu Leu Arg Arg Leu Asn Glu Glu Pro Ala Met Lys Thr Asp Lys Glu
 1 5 10 15
 Tyr Ser Asp Thr Ile Lys Arg Glu Val Glu Val Asp Val Asp Ala Leu
 20 25 30
 Leu Ala Ala Ile Asn Glu Ile Ser Glu Ser Glu Val His Arg Ala Glu
 35 40 45
 Asp Asn Ser Asp Arg Val Val Val Asn Gly Arg Asp Tyr His Thr Tyr
 50 55 60
 Arg Glu Leu Ala Glu Ala Phe Glu Leu Asp Ile His Asp Phe Ser Val
 65 70 75 80
 Ser Glu Thr Asn Arg
 85

<210> 8180

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 8180

Trp Cys Arg Cys Thr Leu Cys Gln Ser Ser Trp Arg Ala Pro His Leu
 1 5 10 15
 Thr Val Ser Thr Ala Lys Tyr Arg Pro His Thr Lys Thr Pro Phe Ala
 20 25 30
 Pro Gly Gly Asp Ala Arg Gln Cys Asn Leu Phe Tyr Thr Gly Ser Lys
 35 40 45
 Pro Gln Glu Glu Cys Met Lys Val Asn Asp Arg Val Thr Val Lys Thr
 50 55 60
 Asp Gly Gly Pro Arg Arg Pro Gly Val Val Leu Ala Ile Glu Glu Phe
 65 70 75 80
 Asn Glu Gly Thr Met Tyr Leu Val Ser Leu Glu Asp Tyr Pro Leu Gly
 85 90 95
 Ile Trp Phe Phe Asn Glu Leu Gly His Pro Asp Gly Ile Phe Val Glu
 100 105 110
 Thr Ala Glu
 115

<210> 8181

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 8181

Arg Ala Ile Met Pro Ser Arg Thr Asp Leu Pro Thr Pro Glu Pro Ala
 1 5 10 15
 Asn Ser Pro Ile Arg Trp Pro Arg Pro Thr Val Ser Arg Ala Leu Ile

20 25 30
 Gly Arg Thr Pro Val Ser Ser Thr Cys Ser Ile Gly Val Arg Cys Ser
 35 40 45
 Gly Leu Lys Gly Trp Val Ile Ser Ala Pro Val Ser Val Val Ser Gly
 50 55 60
 Glu Gly Arg Pro Ser Ser Gly Leu Pro Leu Pro Ser Arg Thr Arg Pro
 65 70 75 80
 Ser Ser Ala Gly Pro Ser Gly Ser Cys Leu Pro Leu Cys Arg Pro Ser
 85 90 95
 Pro Leu Met Phe Phe Ala
 100

<210> 8182

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 8182

Lys Thr Ile Gln Gly Arg Val Met Ala Ile Gln Gly Ile Glu Gly Val
 1 5 10 15
 Leu Ser Gln Leu Gln Ala Thr Ala Met Thr Ala Arg Asn Gln Ser Val
 20 25 30
 Ala Asp Gln Pro Pro Gly Val Ser Phe Ala Gly Gln Leu His Ala Ala
 35 40 45
 Leu Asp Arg Ile Ser Asp Lys Gln Asn Ala Ala Arg Thr Gln Ala Glu
 50 55 60
 Arg Phe Thr Leu Gly Glu Pro Gly Val Ala Leu Asn Asp Val Met Ala
 65 70 75 80
 Asp Leu Gln Lys Ala Ser Val Ser Leu Gln Met Gly Leu Gln Val Arg
 85 90 95
 Asn Lys Leu Val Ser Ala Tyr Gln Glu Val Met Gly Met Gln Val
 100 105 110

<210> 8183

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 8183

Ser Ile Pro Ile Leu Arg Trp Gln Pro Asp Gly Phe Asn Ala Thr Ile
 1 5 10 15
 Phe Phe Ser Ser His Ala Gly Lys Met Lys Lys Val Ala Ile Val
 20 25 30
 Ala Ala Met Leu Thr Leu Ala Gly Cys Val Gln Val Glu Asn Tyr Gln
 35 40 45
 Glu Val Val Lys His Pro Ala Pro Ser Gln Leu Ala Gly Tyr Trp Gln
 50 55 60
 Ser Lys Gly Pro Gln Ser Ala Met Val Ser Pro Glu Ala Ile Ala Thr
 65 70 75 80
 Leu Val Val Thr Pro Glu Gly Asp Thr Leu Asp Cys Arg Gln Trp Gln
 85 90 95
 Arg Val Ile Ala Val Pro Gly Lys Ile Met Leu Arg Ser Asp Asp Tyr
 100 105 110
 Tyr Asn Val Thr Arg Lys Leu Asp Val Tyr Pro Leu Glu Arg Asp Gly
 115 120 125
 Ala Ala Leu Glu Tyr Asp Gly Met Glu Leu Tyr Lys Val Asp Arg Pro
 130 135 140
 Thr Val Glu Cys Ala Asp Tyr Leu Ser Lys Asn Pro Leu Glu Ser Lys
 145 150 155 160
 Leu Pro

<210> 8184
 <211> 270
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8184

```

Pro Leu Ile Ser Pro Thr Ile His Pro Ile Lys Thr Pro Pro Glu Ser
1      5      10      15
Asp Asn His Ala Asp Asn Ser Thr Asn Ala Gly Leu Phe Ile Val Asn
20     25     30
Ser Leu Tyr Thr Ala Glu Gly Val Met Asp Lys His Ser Leu Trp Gln
35     40     45
Arg Tyr Val Pro Leu Val Arg His Glu Ala Leu Arg Leu Gln Val Arg
50     55     60
Leu Pro Ala Ser Val Glu Leu Asp Asp Leu Leu Gln Ala Gly Gly Ile
65     70     75     80
Gly Leu Leu Asn Ala Val Asp Arg Tyr Asp Ala Leu Gln Gly Thr Ala
85     90     95
Phe Thr Thr Tyr Ala Val Gln Arg Ile Arg Gly Ala Met Leu Asp Glu
100    105    110
Leu Arg Ser Arg Asp Trp Val Pro Arg Ser Val Arg Arg Asn Ala Arg
115    120    125
Glu Val Ala His Ala Met Gly Gln Leu Glu Gln Glu Leu Gly Arg Asn
130    135    140
Ala Thr Glu Thr Glu Val Ala Glu Arg Leu Gly Ile Pro Val Glu Glu
145    150    155    160
Tyr Arg Gln Met Leu Leu Asp Thr Asn Asn Ser Gln Leu Phe Ser Tyr
165    170    175
Asp Glu Trp Arg Glu Glu His Gly Asp Ser Ile Glu Leu Val Thr Asp
180    185    190
Glu His Gln Gln Glu Asn Pro Leu His His Leu Leu Glu Gly Asn Leu
195    200    205
Arg Gln Arg Val Met Glu Ala Ile Glu Ala Leu Pro Glu Arg Glu Gln
210    215    220
Leu Val Leu Thr Leu Tyr Tyr Gln Glu Glu Leu Asn Leu Lys Glu Ile
225    230    235    240
Gly Ala Val Leu Glu Val Gly Glu Ser Arg Val Ser Gln Leu His Ser
245    250    255
Gln Ala Ile Lys Arg Leu Arg Thr Lys Leu Gly Lys Leu
260    265    270

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<210> 8185
 <211> 189
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8185

```

Gln Pro Gly Val Ile Met Thr Val Gln Gln Ser Lys Arg Arg Pro Leu
1      5      10      15
Ser Arg Tyr Leu Lys Asp Phe Lys His Ser Gln Thr His Cys Ala His
20     25     30
Cys Lys Lys Leu Leu Asp Arg Ile Thr Leu Val Arg Arg Gly Glu Ile
35     40     45
Val Asn Lys Ile Ala Ile Ser Arg Leu Asp Thr Leu Met Asp Glu Ala
50     55     60
Ala Trp Leu Glu Glu Gln Lys Glu Trp Val Ala Leu Cys Arg Phe Cys
65     70     75     80
Gly Asp Leu His Cys Lys Glu Gln Ser Asp Phe Phe Asp Ile Ile Gly
85     90     95
Phe Lys Gln Phe Leu Phe Glu Gln Thr Glu Met Ser His Gly Thr Val

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100 105 110
 Arg Glu Tyr Val Val Arg Leu Arg Arg Leu Gly Gln His Leu Thr Met
 115 120 125
 Gln Asn Ile Ser Arg Asp Leu Leu Thr Thr Gly Tyr Leu Asp Glu Asn
 130 135 140
 Leu Glu Pro Trp Leu Pro Ala Thr Ser Thr Asn Asn Tyr Arg Ile Ala
 145 150 155 160
 Leu Arg Lys Tyr Ala Gln Tyr Lys Val Gln Met Pro Gly Val Ile Lys
 165 170 175
 Gln Lys Val Arg Ala Gly Thr Thr Ser Asp Ile Tyr
 180 185

<210> 8186

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 8186

Lys Arg Leu Phe Tyr Phe Ser Arg Val Cys Val His Asn Glu Ile Thr
 1 5 10 15
 Ile Val Cys Val Thr Gly Gly Thr Met Ser Leu Gln Asn Leu Thr Arg
 20 25 30
 Phe Pro Arg Leu Glu Phe Ile Gly Ala Pro Thr Pro Leu Glu Phe Leu
 35 40 45
 Pro Arg Phe Ser Asp Tyr Leu Gly Arg Asp Ile Phe Ile Lys Arg Asp
 50 55 60
 Asp Val Thr Pro Met Ala Met Gly Gly Asn Lys Leu Arg Lys Leu Glu
 65 70 75 80
 Phe Leu Ala Ala Asp Ala Leu Arg Glu Gly Ala Asp Thr Leu Ile Thr
 85 90 95
 Ala Gly Ala Ile Gln Ser Asn His Val Arg Gln Thr Ala Ala Val Ala
 100 105 110
 Ala Lys Leu Gly Leu His Cys Val Ala Leu Leu Glu Asn Pro Ile Gly
 115 120 125
 Thr Gln Ala Glu Asn Tyr Leu Thr Asn Gly Asn Arg Leu Leu Leu Asp
 130 135 140
 Leu Phe Asn Val Gln Val Glu Met Val Asp Ala Leu Thr Asp Pro Ala
 145 150 155 160
 Ala Gln Leu Asp Glu Leu Ala Thr Arg Leu Glu Ala Gln Gly Phe Arg
 165 170 175
 Pro Tyr Val Ile Pro Val Gly Gly Ser Asn Ala Leu Gly Ala Leu Gly
 180 185 190
 Tyr Val Glu Ser Ala Leu Glu Ile Ala Gln Gln Cys Glu Gly Ala Val
 195 200 205
 Ser Leu Ser Ser Val Val Val Ala Ser Gly Ser Ala Gly Thr His Ala
 210 215 220
 Gly Leu Ala Val Gly Leu Glu Gln Leu Met Pro Glu Val Glu Leu Ile
 225 230 235 240
 Gly Val Thr Val Ser Arg Ser Val Ala Asp Gln Lys Pro Lys Val Val
 245 250 255
 Thr Leu Gln Gln Ala Val Ala Glu Gln Leu Ala Leu Gln Ala Lys Ala
 260 265 270
 Glu Ile Leu Leu Trp Asp Asp Tyr Phe Ala Pro Gly Tyr Gly Thr Pro
 275 280 285
 Asn Asp Glu Gly Met Glu Ala Val Lys Leu Leu Ala Arg Leu Glu Gly
 290 295 300
 Ile Leu Leu Asp Pro Val Tyr Thr Gly Lys Ala Met Ala Gly Leu Ile
 305 310 315 320
 Asp Gly Ile Ala Arg Lys Arg Phe Lys Asp Glu Gly Pro Ile Leu Phe
 325 330 335
 Val His Thr Gly Gly Ala Pro Ala Leu Phe Ala Tyr His Pro His Val

340

345

350

<210> 8187

<211> 230

<212> PRT

<213> *Enterobacter cloacae*

<400> 8187

```

Lys Ser Gly Arg Lys Ile Ile Met Gln Glu Ser Ile Gln Leu Val Ile
1      5      10      15
Asp Ser Leu Pro Phe Leu Leu Lys Gly Ala Val Phe Thr Leu Gln Leu
20      25      30
Ser Ile Gly Gly Met Phe Phe Gly Leu Val Leu Gly Phe Val Leu Ala
35      40      45
Leu Met Arg Met Ser Asn Ile Trp Pro Val Arg Trp Leu Ala Arg Phe
50      55      60
Tyr Ile Ser Val Phe Arg Gly Thr Pro Leu Ile Ala Gln Leu Phe Met
65      70      75      80
Ile Tyr Tyr Gly Leu Pro Gln Phe Gly Ile Glu Leu Asp Pro Ile Pro
85      90      95
Ala Ala Met Ile Gly Leu Ser Leu Asn Thr Ala Ala Tyr Thr Ser Glu
100      105      110
Thr Leu Arg Ala Ala Ile Ser Ser Ile Asp Lys Gly Gln Trp Glu Ala
115      120      125
Ala Ala Ser Ile Gly Met Thr Pro Trp Gln Thr Leu Arg Arg Ala Ile
130      135      140
Leu Pro Gln Ala Ala Arg Val Ala Leu Pro Pro Leu Ser Asn Ser Phe
145      150      155      160
Ile Ser Leu Val Lys Asp Thr Ser Leu Ala Thr Ile Gln Val Pro
165      170      175
Glu Leu Phe Arg Gln Ala Gln Leu Ile Thr Ser Arg Thr Leu Glu Val
180      185      190
Phe Thr Met Tyr Leu Ala Ala Ser Leu Ile Tyr Trp Val Met Ala Thr
195      200      205
Val Leu Ser Ala Leu Gln Asn Tyr Phe Glu Asn Gln Leu Asn Arg Gln
210      215      220
Glu Arg Asp Pro Lys
225      230

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<210> 8188

<211> 169

<212> PRT

<213> *Enterobacter cloacae*

<400> 8188

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Ile Thr Leu Ser Ala Asp Pro Ala Ser Cys Val Val Lys Thr Leu Phe
1      5      10      15
Asp Gln Ala Lys Ile Leu Ala Lys Gln Cys Glu Gln Gln Ser Leu Pro
20      25      30
Phe Ser Val Ile Gln Ile Asp Leu Asp Cys Phe Lys Ser Ile Asn Asp
35      40      45
Arg Phe Gly His Gln Ala Gly Asp Lys Val Leu Ser His Ala Ala Gly
50      55      60
Leu Ile Ala Ser Thr Leu Arg Asp Lys Asp Ile Ala Gly Arg Val Gly
65      70      75      80
Gly Glu Glu Phe Cys Val Val Leu Pro Gly Met Thr Leu Glu Glu Ala
85      90      95
Ala Glu Val Ala Glu Gln Ile Arg Glu Arg Ile Asp Ser Lys Glu Ile
100      105      110

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Leu Ile Lys Lys Ser Thr Thr Leu Arg Val Ser Ala Ser Phe Gly Val
 115 120 125
 Ser Gly Ala Gln Glu Lys Gly Asn Tyr His Phe Glu Asn Leu Gln Ser
 130 135 140
 Thr Ala Asp Ala Arg Leu Tyr Glu Ala Lys Gln Arg Gly Arg Asn Arg
 145 150 155 160
 Val Ile Trp Gln Asp His Leu Lys Lys
 165

<210> 8189

<211> 576

<212> ERT

<213> Enterobacter cloacae

<400> 8189

Thr Thr Gly Asn Glu Ile Met Ala Gln Val Ile Asn Thr Asn Ser Leu
 1 5 10 15
 Ser Leu Ile Thr Gln Asn Asn Ile Asn Lys Asn Gln Ser Ser Met Ser
 20 25 30
 Thr Ala Ile Glu Arg Leu Ser Ser Gly Leu Arg Ile Asn Ser Ala Lys
 35 40 45
 Asp Asp Ala Ala Gly Gln Ala Ile Ala Asn Arg Phe Thr Ser Asn Ile
 50 55 60
 Lys Gly Leu Thr Gln Ala Ala Arg Asn Ala Asn Asp Gly Ile Ser Val
 65 70 75 80
 Ala Gln Thr Thr Glu Gly Ala Leu Ser Glu Ile Asn Asn Asn Leu Gln
 85 90 95
 Arg Ile Arg Glu Leu Thr Val Gln Ser Ser Thr Gly Thr Asn Ser Gln
 100 105 110
 Ser Asp Leu Asp Ser Ile Gln Asp Glu Ile Lys Ser Arg Leu Asp Glu
 115 120 125
 Ile Asp Arg Val Ser Gly Gln Thr Gln Phe Asn Gly Val Asn Val Leu
 130 135 140
 Ala Lys Asp Gly Ser Met Lys Ile Gln Val Gly Ala Asn Asp Gly Gln
 145 150 155 160
 Thr Ile Thr Ile Asp Leu Lys Lys Ile Asp Ser Asp Thr Leu Gly Leu
 165 170 175
 Asn Gly Phe Asn Val Asn Gly Lys Gly Thr Ile Ala Asn Lys Ala Ala
 180 185 190
 Thr Val Ser Asp Leu Thr Ser Ala Gly Ala Lys Leu Asn Ala Thr Thr
 195 200 205
 Gly Asn Tyr Asp Leu Thr Thr Thr Asn Lys Asp Leu Thr Thr Asp Val
 210 215 220
 Ala Phe Ser Lys Leu Lys Thr Gly Asp Thr Val Thr Thr Asn Gly Ala
 225 230 235 240
 Thr Tyr Thr Tyr Asp Ala Lys Ala Gly Asn Phe Thr Thr Thr Lys Ser
 245 250 255
 Thr Ala Gly Ala Asp Glu Ala Ala Lys Thr Ala Asn Arg Asp Ala Leu
 260 265 270
 Ser Ala Thr Leu Lys Ala Asp Pro Gly Gln Thr Val Ser Gly Thr Tyr
 275 280 285
 Thr Thr Lys Asp Gly Thr Val Asn Phe Asp Thr Asp Ser Ala Gly Asn
 290 295 300
 Ile Thr Ile Gly Gly Lys Ala Ala Tyr Val Asp Ala Ser Gly Asn Leu
 305 310 315 320
 Thr Thr Asn Asn Ala Gly Gly Ala Ala Asp Ala Thr Met Lys Ala Leu
 325 330 335
 Leu Lys Thr Ala Ser Glu Asn Thr Asp Gly Ala Thr Leu Asn Phe Lys
 340 345 350
 Gly Thr Glu Tyr Thr Val Ala Pro Gly Val Asp Ala Thr Asp Thr Gly
 355 360 365

Val Val Ser Tyr Lys Ala Thr Val Ser Ser Asp Val Val Leu Ala Glu
 370 375 380
 Thr Lys Ala Asn Ala Thr Asn Ile Ser Met Asn Ser Gly Val Leu Thr
 385 390 395 400
 Lys Asn Leu Ala Phe Asp Ala Thr Gly Ala Ser Thr Asp Asn Thr Phe
 405 410 415
 Val Asp Asp Ala Gly Asn Ile Thr Ser Val Glu Asp Tyr Thr Val Ser
 420 425 430
 Tyr Ala Val Asn Lys Asp Asn Gly Asn Val Thr Val Ala Ala Tyr Ser
 435 440 445
 Ser Ala Thr Asp Thr Asn Lys Thr Tyr Ser Pro Thr Ile Gly Ala Ala
 450 455 460
 Val Asn Val Thr Ser Thr Gly Lys Ile Thr Thr Glu Ala Thr Ser Val
 465 470 475 480
 Gly Thr Ala Thr Thr Asp Pro Leu Ala Ser Leu Asp Asp Ala Ile Ser
 485 490 495
 Ser Ile Asp Lys Phe Arg Ser Ser Leu Gly Ala Val Gln Asn Arg Leu
 500 505 510
 Ser Ser Ala Val Thr Asn Leu Asn Asn Thr Thr Thr Asn Leu Ser Glu
 515 520 525
 Ala Gln Ser Arg Ile Gln Asp Ala Asp Tyr Ala Thr Glu Val Ser Asn
 530 535 540
 Met Ser Lys Ala Gln Ile Ile Gln Gln Ala Gly Asn Ser Val Leu Ala
 545 550 555 560
 Lys Ala Asn Gln Val Pro Gln Gln Val Leu Ser Leu Leu Gln Gly
 565 570 575

<210> 8190

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 8190

Arg Cys Arg Arg Phe Leu Tyr Thr Thr Gln Lys Phe His Cys Ile Gly
 1 5 10 15
 Val Leu Met Lys Leu Ala Leu Leu Gly Arg Gln Ala Leu Met Gly Met
 20 25 30
 Met Ala Val Ala Leu Val Ala Gly Met Ser Val Lys Thr Phe Ala Ala
 35 40 45
 Glu Asn Leu Leu Asn Lys Val Lys Glu Arg Gly Thr Leu Leu Val Gly
 50 55 60
 Leu Glu Gly Thr Tyr Pro Phe Ser Phe Gln Gly Asp Asp Gly Lys
 65 70 75 80
 Leu Thr Gly Phe Glu Val Glu Phe Ala Gln Glu Leu Ala Lys His Leu
 85 90 95
 Gly Val Lys Ala Ser Leu Lys Pro Thr Lys Trp Asp Gly Met Leu Ala
 100 105 110
 Ser Leu Asp Ser Lys Arg Ile Asp Val Val Ile Asn Gln Val Thr Ile
 115 120 125
 Ser Asp Glu Arg Lys Lys Lys Tyr Asp Phe Ser Thr Pro Tyr Thr Val
 130 135 140
 Ser Gly Ile Gln Ala Leu Val Lys Lys Gly Asn Glu Gly Ser Ile Lys
 145 150 155 160
 Ser Ala Ala Asp Leu Lys Gly Lys Lys Val Gly Val Gly Leu Gly Thr
 165 170 175
 Asn Tyr Glu Glu Trp Leu Arg Gln Asn Val Gln Gly Val Asp Ile Arg
 180 185 190
 Thr Tyr Asp Asp Asp Pro Thr Lys Tyr Gln Asp Leu Arg Val Gly Arg
 195 200 205
 Ile Asp Ala Ile Leu Val Asp Arg Leu Ala Ala Leu Asp Leu Val Lys
 210 215 220

Lys Thr Asn Asn Ser Leu Ala Val Ala Gly Asp Ala Phe Ser Arg Gln
 225 230 235 240
 Glu Ser Gly Val Ala Val Arg Lys Gly Asn Glu Asp Leu Leu Lys Ala
 245 250 255
 Ile Asp Gly Ala Ile Ala Glu Met Gln Lys Asp Gly Ser Leu Lys Ala
 260 265 270
 Leu Ser Glu Lys Trp Phe Gly Ala Asp Val Thr Lys
 275 280 285

<210> 8191

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 8191

Ser Lys Met Ser Ala Ile Asp Val Lys Asn Leu Val Lys Lys Phe His
 1 5 10 15
 Gly Gln Thr Val Leu His Gly Ile Asp Leu Glu Val Glu Gln Gly Glu
 20 25 30
 Val Val Ala Ile Ile Gly Pro Ser Gly Ser Gly Lys Thr Thr Leu Leu
 35 40 45
 Arg Ser Ile Asn Leu Leu Glu Gln Pro Glu Gly Gly Thr Ile Arg Val
 50 55 60
 Gly Asp Ile Thr Ile Asp Thr Gly Lys Pro Ile Ser Gln Gln Lys Gly
 65 70 75 80
 Leu Ile Arg Arg Leu Arg Gln His Val Gly Phe Val Phe Gln Ser Phe
 85 90 95
 Asn Leu Phe Pro His Arg Thr Val Leu Glu Asn Ile Ile Glu Gly Pro
 100 105 110
 Val Ile Val Lys Gly Glu Pro Lys Glu Asp Ala Thr Val Arg Ala Arg
 115 120 125
 Glu Leu Leu Ala Lys Val Gly Leu Ala Gly Lys Glu Thr Ser Tyr Pro
 130 135 140
 Arg Arg Leu Ser Gly Gly Gln Gln Arg Val Ala Ile Ala Arg Ala
 145 150 155 160
 Leu Ala Met Arg Pro Asp Val Ile Leu Phe Asp Glu Pro Thr Ser Ala
 165 170 175
 Leu Asp Pro Glu Leu Val Gly Glu Val Leu Asn Thr Ile Arg Gln Leu
 180 185 190
 Ala Gln Glu Lys Arg Thr Met Val Ile Val Thr His Glu Met Ser Phe
 195 200 205
 Ala Arg Asp Val Ala Asp Arg Ala Ile Phe Met Asp Gln Gly Arg Ile
 210 215 220
 Val Glu Gln Gly Pro Ala Lys Ala Leu Phe Ala Asn Pro Gln Gln Pro
 225 230 235 240
 Arg Thr Arg Gln Phe Leu Glu Lys Phe Leu Met Gln
 245 250

<210> 8192

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 8192

Arg Asn Thr Leu Ser Arg Cys Gly Lys Leu Thr Ile Gly Pro Lys Leu
 1 5 10 15
 Val Leu Ser Ser Asn Arg Ser Pro Ala Arg Met Arg Pro Thr Arg Ser
 20 25 30
 Thr Ile Phe Cys Ser Asn Ala Ala Leu Asn Phe Ala Gly Thr Asn Thr
 35 40 45
 Arg Val Pro Leu Val His Thr Trp Pro Glu Leu Lys Lys Leu Ala Ile

50 55 60
 Met Ala Ile Ser Ala Ala Arg Ser Arg Ser Ala Ser Ser Asn Thr Ile
 65 70 75 80
 Ser Gly Asp Leu Pro Ser Ser Ile Val Thr Ser Phe Arg Asp Glu
 85 90 95
 Ala Ala Glu Leu Ala Ile Thr Phe Leu Pro Leu Ala Thr Pro Pro Val
 100 105 110
 Lys Glu Thr Leu Ala Met Pro Gly Cys Ser Val Arg Tyr Trp Pro Val
 115 120 125
 Ser Ala Pro Thr Pro Gly Arg Thr Leu Asn Thr Pro Ser Gly Arg Pro
 130 135 140
 Ala Ser Val
 145

<210> 8193

<211> 311

<212> PRT

<213> *Enterobacter cloacae*

<400> 8193

Ser Pro Gln Glu Thr Ser Ala Met His Pro Arg Gln Gly Leu Lys Arg
 1 5 10 15
 Leu Leu Leu Gly Ala Leu Leu Met Thr Ala Thr Thr Thr Gly Ala Leu
 20 25 30
 Ala Ala Glu Lys Phe Gln Val Ile Thr Thr Phe Thr Val Ile Ala Asp
 35 40 45
 Met Ala Lys Asn Val Ala Gly Asp Ala Ala Glu Val Thr Ser Ile Thr
 50 55 60
 Lys Pro Gly Ala Glu Ile His Glu Tyr Gln Pro Thr Pro Gly Asp Ile
 65 70 75 80
 Lys Arg Ala Gln Lys Ala Gln Leu Ile Leu Ala Asn Gly Met Asn Leu
 85 90 95
 Glu Leu Trp Phe Gln Arg Phe Tyr Gln His Leu Asn Gly Val Pro Glu
 100 105 110
 Val Ile Val Thr Lys Gly Ile Thr Pro Met Gly Ile Ser Glu Gly Pro
 115 120 125
 Tyr Asn Gly Lys Pro Asn Pro His Ala Trp Met Ser Pro Asp Asn Ala
 130 135 140
 Leu Ile Tyr Val Asp Asn Ile Arg Asp Ala Leu Val Lys Tyr Asp Pro
 145 150 155 160
 Ala Asn Ala Gln Thr Tyr Gln Arg Asn Ala Asp Ala Tyr Lys Gln Lys
 165 170 175
 Ile Thr Ala Thr Leu Glu Pro Leu Arg Lys Gln Val Ala Glu Ile Pro
 180 185 190
 Glu Asp Lys Arg Trp Met Val Thr Ser Glu Gly Ala Phe Ser Tyr Leu
 195 200 205
 Ala Arg Asp Leu Gly Leu Lys Glu Leu Tyr Leu Trp Pro Ile Asn Ala
 210 215 220
 Asp Gln Gln Gly Thr Pro Gln Gln Val Arg Lys Val Ile Asp Leu Val
 225 230 235 240
 Lys Lys His His Ile Pro Ala Val Phe Ser Glu Ser Thr Val Ser Asp
 245 250 255
 Lys Pro Ala Arg Gln Val Ala Arg Glu Thr Gly Ala His Tyr Gly Gly
 260 265 270
 Val Leu Tyr Val Asp Ser Leu Ser Ala Glu Asn Gly Pro Val Pro Thr
 275 280 285
 Tyr Ile Asp Leu Leu Asn Val Thr Thr Arg Thr Leu Val Gln Gly Ile
 290 295 300
 Arg Asp Gly Met Lys Glu
 305 310

<210> 8194

<211> 389

<212> PRT

<213> *Enterobacter cloacae*

<400> 8194

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Thr Pro Glu Asn Ser Leu Leu His Ala Ala Gly Gly Leu Tyr Arg Gly
1      5      10      15
Gly Ala Ala Asn Arg Arg Arg Val Ser Gly Asp Leu Ser Gly Gly His
20      25      30
Ala Trp Arg Asp Arg Val Ala Ala Asp Arg Ser Leu Pro Ala Pro Ala
35      40      45
Asp Asp Cys Arg Arg His Trp Gln His His Gln Leu Pro Arg Arg Val
50      55      60
Gly Gln Leu Leu Pro Gly Arg Arg His Arg Arg His Tyr Arg Gly Arg
65      70      75      80
Pro Asp Ala Ala Val Pro Ala Gly Val Arg Leu Cys Ala Glu Ala Arg
85      90      95
Thr Ala Cys Gln Pro Ser Ser Gly Ala Gly Gly Thr Pro Met Met Thr
100     105     110
Leu Leu Leu Glu Pro Phe Gln Phe Ala Phe Met Asn Asn Ala Leu Leu
115     120     125
Ile Ser Leu Leu Val Ala Val Pro Cys Ala Leu Leu Ser Val Phe Leu
130     135     140
Val Leu Lys Gly Trp Ala Leu Met Gly Asp Ala Met Ser His Ala Val
145     150     155     160
Phe Pro Gly Val Val Leu Ala Trp Met Met Gly Leu Pro Leu Ala Leu
165     170     175
Gly Ala Phe Val Ala Gly Leu Phe Cys Ala Val Ala Thr Gly Tyr Leu
180     185     190
Lys Asp Asn Ser Arg Ile Lys Gln Asp Thr Val Met Gly Ile Val Phe
195     200     205
Ser Gly Met Phe Gly Ala Gly Leu Ile Leu Tyr Ile Ala Val Lys Pro
210     215     220
Glu Val His Leu Asp His Ile Leu Phe Gly Asp Met Leu Gly Ile Asn
225     230     235
Gly Met Asp Ile Leu Gln Ser Gly Leu Val Ala Gly Met Ile Ala Leu
245     250     255
Val Ile Gly Leu Lys Trp Arg Asp Phe Leu Leu Phe Cys Phe Asp Tyr
260     265     270
Gln Gln Ala Gln Ala Ser Gly Leu Arg Thr Arg Trp Leu His His Gly
275     280     285
Leu Leu Cys Met Val Ser Leu Thr Ile Val Ala Thr Leu Lys Ala Val
290     295     300
Gly Ile Ile Leu Ser Ile Ser Leu Leu Ile Ala Pro Gly Ala Val Ala
305     310     315
Val Leu Ile Thr Arg Arg Phe His Met Ala Leu Leu Val Ala Val Ala
325     330     335
Val Ser Ala Leu Val Ser Val Ser Gly Val Tyr Ala Ser Phe Tyr Leu
340     345     350
Asp Ser Ala Pro Ala Pro Thr Ile Val Val Leu Phe Ala Met Val Phe
355     360     365
Ile Val Thr Phe Val Val Thr Ser Val Lys Ala Arg Arg Gln Glu Arg
370     375     380
Val Thr Ala Glu
385

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<210> 8195

<211> 460

<212> PRT

<213> *Enterobacter cloacae*

<400> 8195
 Pro Ala Arg Pro Glu Ser Glu Ser Ser Tyr Ser Leu Tyr Val Pro Leu
 1 5 10 15
 Leu Trp Leu Phe Asn Glu Arg Ala Ser His Ser Ala Gly Ile Thr Val
 20 25 30
 Leu Gln Met Gln Ile Val Ile Asn Asn Ile Ile Asn Lys Ile Cys Ser
 35 40 45
 Glu Thr Lys Lys Thr Val Lys His Gly Val Ile Arg Val Thr Val Leu
 50 55 60
 Thr Thr Gly Ser Glu Ala Trp Trp Gln Ala Lys Asn Gly Pro Glu Arg
 65 70 75 80
 Glu Arg His Gln Glu Asn Tyr Arg Val Thr Phe Trp Trp Arg Asp Pro
 85 90 95
 Ala Gly Thr Gln Lys Ser Ser Thr Val Lys Arg Val Trp Leu Tyr Val
 100 105 110
 Thr Gly Val Thr Asp His His Gln Asn Ala Arg Pro Gln Ser Leu Glu
 115 120 125
 Arg Val Pro Asp Thr Asp Val Trp Gln Trp Gln Gly Glu Phe Ser Pro
 130 135 140
 Glu Trp Arg Gly Ser Tyr Cys Phe Ile Pro Ser Asp Asn Glu Asn Asp
 145 150 155 160
 Phe Ala Asp Ala Val Phe Glu Gly Glu Gln Pro Asp Arg Met Ala Leu
 165 170 175
 Arg Glu Gly Trp Arg Lys Leu Leu Pro His Ala Val Ser Asp Pro Leu
 180 185 190
 Asn Pro Gln Ser Trp Arg Gly Gly Arg Gly His Ala Val Ser Ala Leu
 195 200 205
 Glu Met Pro Glu Ala Pro Val Gln Pro Gly Trp Asn His Pro Asp Thr
 210 215 220
 Pro Tyr Asn Lys Pro Val Cys Ile Asp Trp His Ser Ala Arg Leu Lys
 225 230 235 240
 Asn Arg Arg Arg Val Trp Ile Phe Thr Thr Gly Asp Glu Ser Pro Glu
 245 250 255
 Arg Pro Leu Ala Val Leu Leu Asp Gly Gln Phe Trp Ala Glu Ser Met
 260 265 270
 Pro Val Trp Pro Ala Leu Ala Ser Leu Thr His Glu Gly Lys Leu Pro
 275 280 285
 Pro Ala Val Tyr Val Leu Ile Asp Val Ile Asp Thr Ala His Arg Ser
 290 295 300
 Arg Glu Leu Pro Cys Asn Pro Asp Phe Trp Leu Ala Val Gln Glu Glu
 305 310 315 320
 Leu Leu Pro Gln Val Lys Ser Met Ala Pro Phe Ser Asp Arg Ala Asp
 325 330 335
 His Thr Val Val Ala Gly Gln Ser Phe Gly Gly Leu Ser Ser Leu Tyr
 340 345 350
 Ala Gly Leu Asn Trp Pro Gln Arg Phe Gly Cys Ile Leu Ser Gln Ser
 355 360 365
 Gly Ser Tyr Trp Trp Pro His Arg Gly Ala Gln Gln Asp Gly Leu Leu
 370 375 380
 Ile Glu Gln Leu Lys Ala Gly Glu Lys Thr Ala Arg Gly Leu Arg Ile
 385 390 395 400
 Val Leu Glu Ala Gly Arg Asn Glu Pro Leu Ile Leu Arg Ala Asn Gln
 405 410 415
 Ala Ile Leu Ala Glu Leu His Thr Gln Gln Pro Val Phe Trp Arg Gln
 420 425 430
 Val Asp Gly Gly His Asp Ala Leu Cys Trp Arg Gly Gly Leu Thr Gln
 435 440 445
 Gly Leu Met Thr Leu Trp Gln Pro Leu Ile Gln
 450 455 460

<210> 8196

<211> 1295

<212> PRT

<213> Enterobacter cloacae

<400> 8196

Ala Val Leu Phe Cys Gly Gly Ala Arg Met Asn Arg Leu Pro Leu Val
 1 5 10 15
 Ala Ala Gln Pro Gly Ile Trp Met Ala Glu Gln Leu Ser Ser Leu Pro
 20 25 30
 Asn Ala Trp Ser Val Ala His Tyr Thr Glu Leu Lys Gly Ala Ile Asp
 35 40 45
 Ala Pro Leu Leu Ala Lys Ala Ile Ala Glu Gly Met Met Gln Ala Asp
 50 55 60
 Thr Leu Arg Met Arg Phe Ala Glu Asp His Gly Glu Leu Trp Gln Trp
 65 70 75 80
 Ile Asp Glu Ala Met Leu Leu Pro Glu Pro Ser Ile Val Arg Val Asp
 85 90 95
 Ser His Asp Ala Ala Val Ala Leu Met Glu Ala Asp Leu Asn Gln Asn
 100 105 110
 Leu Arg Val Asp Ser Gly Gln Pro Leu Ala Phe His Gln Leu Ile Gln
 115 120 125
 Val Gly Glu Ser His Trp Tyr Trp Tyr Gln Arg Tyr His His Leu Val
 130 135 140
 Val Asp Gly Phe Ser Phe Pro Ala Ile Thr Arg Gln Ile Ala Ala Ile
 145 150 155 160
 Tyr Ala Ala Trp His Lys Gly Glu Pro Ala Pro Ala Ser Pro Phe Thr
 165 170 175
 Pro Phe Ala Glu Val Val Glu Glu Tyr Gln Arg Tyr Arg Asp Ser Glu
 180 185 190
 Ala Tyr Gln Arg Asp Gly Ala Phe Trp Ala Val Gln Arg Gln Gln Leu
 195 200 205
 Pro Ser Pro Val Ser Leu Ser Ser Ala Pro Leu Pro Gly His Ala Ala
 210 215 220
 Thr Thr Asp Ile Leu Arg Leu Lys Met Ala Met Asp Gly Arg Ala Phe
 225 230 235 240
 Ser Gln Leu Ala Gln Met Ala Gly Gln Ala Gln Arg Thr Asp Leu Ala
 245 250 255
 Leu Ala Leu Val Val Leu Trp Leu Gly Arg Leu Thr Gly Arg Leu Asp
 260 265 270
 Tyr Ala Ala Gly Phe Ile Phe Met Arg Arg Met Gly Ser Ala Ala Leu
 275 280 285
 Thr Ala Thr Gly Pro Val Leu Asn Val Leu Pro Leu Ala Val Asn Ile
 290 295 300
 Arg Pro His Glu Ser Leu Pro Glu Leu Ala Leu Arg Leu Ala Asn Gln
 305 310 315 320
 Leu Lys Lys Met Arg Arg His Gln Arg Tyr Asp Ala Glu Gln Ile Val
 325 330 335
 Arg Asp Ser Gly Arg Ala Ala Gly Asp Glu Ala Leu Phe Gly Pro Val
 340 345 350
 Leu Asn Val Lys Val Phe Asp Tyr Gln Leu Asp Ile Asp Gly Val Glu
 355 360 365
 Ala Ile Thr His Thr Leu Ala Thr Gly Pro Val Asn Asp Leu Glu Leu
 370 375 380
 Ala Leu Phe Pro Asp Glu Gln Gly Gly Leu Ser Ile Glu Ile Leu Ala
 385 390 395 400
 Asn Gly Gln Arg Tyr Asp Glu Ala Thr Leu Lys Gly His Ala Val Arg
 405 410 415
 Leu Asn Ala Met Leu Thr Gln Phe Ala Ala Asn Pro Asp Leu Arg Cys
 420 425 430
 Gly Asp Val Glu Thr Leu Ser Glu Gln Glu Tyr Ala Arg Leu Ala Arg

[illegible]

Lys Ala Gln Leu Pro Pro His Met Val Pro Val Val Leu Leu Gln Ile
 930 935 940
 Ser Ala Leu Pro Leu Ser Ala Asn Gly Lys Leu Asp Arg Lys Ala Leu
 945 950 955 960
 Pro Leu Pro Glu Leu Thr Ser Arg Thr Ser Gly Arg Ala Pro Glu Thr
 965 970 975
 Gln Thr Glu Val Ala Val Ala Gln Ala Phe Ser Ser Leu Leu Gly Cys
 980 985 990
 Ala Val Asn Asp Ile Glu Ala Asp Phe Phe Ala Leu Gly Gly His Ser
 995 1000 1005
 Leu Leu Ala Met Arg Leu Ala Ala Gln Leu Ser Arg Ala Phe Ser Arg
 1010 1015 1020
 Lys Val Thr Pro Gly Gln Ile Met Val Ala Ser Thr Val Ser Lys Leu
 1025 1030 1035 1040
 Ser Ala Leu Leu Asp Ser Gln Met Arg Asp Glu Gln Ala Gln Arg Leu
 1045 1050 1055
 Gly Tyr Glu Thr Leu Leu Pro Leu Arg Glu Ser Asn Gly Pro Thr Leu
 1060 1065 1070
 Phe Cys Phe His Pro Ala Ser Gly Phe Ala Trp Gln Phe Ser Val Leu
 1075 1080 1085
 Ala Arg Tyr Leu Ser Pro Arg Trp Ser Ile Val Gly Ile Gln Ser Pro
 1090 1095 1100
 Arg Pro Asn Gly Pro Met Gln Gln Cys Ala Asp Leu Asp Gly Val Ile
 1105 1110 1115 1120
 Glu His His Leu Asn Thr Leu Arg Lys Gln Gln Pro Gln Gly Pro Tyr
 1125 1130 1135
 Tyr Leu Phe Gly Tyr Ser Leu Gly Gly Thr Leu Ala Gln Gly Ile Ala
 1140 1145 1150
 Ala Arg Leu Arg Glu Gln Gly Glu Ala Val Ala Phe Leu Gly Leu Leu
 1155 1160 1165
 Asp Thr Trp Pro Pro Glu Thr Gln Asn Trp Ala Glu Lys Glu Ala Asn
 1170 1175 1180
 Gly Leu Asp Pro Ala Val Leu Ala Glu Ile Glu Arg Glu Arg Gln Ala
 1185 1190 1195 1200
 Phe Ile Ala Ala Gln Gln Gly Gln Gly Ser Ser Glu Leu Phe Asn Ala
 1205 1210 1215
 Ile Glu Gly Asn Tyr Ala Asp Ala Val Arg Leu Leu Thr Thr Ala His
 1220 1225 1230
 Ser Ala Arg Phe Asp Gly Lys Ala Thr Leu Phe Val Ala Glu Arg Thr
 1235 1240 1245
 Arg Thr Gln Asp Pro Gln Ala Ala Trp Ala Pro Trp Val Gly Glu Leu
 1250 1255 1260
 Glu Val Tyr Ser Gln Asp Cys Ala His Val Asp Ile Ile Ser Pro Gln
 1265 1270 1275 1280
 Ala Phe Glu Lys Ile Gly Pro Val Leu Lys Glu Ile Leu Gly
 1285 1290 1295

<210> 8197

<211> 318

<212> PRT

<213> *Enterobacter cloacae*

<400> 8197

Ala Arg Leu Gln Arg Arg Ala Ala Pro Arg Gly Ala Gln Arg Leu Gly
 1 5 10 15
 Arg Ser His Tyr Tyr Arg Arg Arg Thr Pro Leu Arg Gly Ala Pro Thr
 20 25 30
 Gly Gly Gln Met Asn Ala Leu Leu Glu Pro Phe Gly Tyr Glu Tyr Met
 35 40 45
 Leu Asn Ala Met Trp Val Ser Ala Met Val Gly Gly Leu Cys Ala Phe
 50 55 60


```

Leu Ser Cys Tyr Leu Met Leu Lys Gly Trp Ser Leu Ile Gly Asp Ala
65      70      75      80
Leu Ser His Ser Ile Val Pro Gly Val Ala Gly Ala Tyr Met Leu Gly
      85      90      95
Leu Pro Phe Ser Leu Gly Ala Phe Leu Ser Gly Gly Leu Ala Ala Gly
      100      105      110
Ser Met Leu Phe Leu Asn Gln Arg Ser Arg Leu Lys Glu Asp Ala Ile
      115      120      125
Ile Gly Leu Ile Phe Ser Ser Phe Phe Gly Leu Gly Leu Phe Met Val
      130      135      140
Ser Leu Asn Pro Thr Ser Val Asn Ile Gln Thr Ile Val Leu Gly Asn
145      150      155      160
Ile Leu Ala Ile Ala Pro Glu Asp Ile Val Gln Leu Ala Ile Ile Gly
      165      170      175
Val Val Ser Ile Val Ile Leu Leu Phe Lys Trp Lys Asp Leu Met Val
      180      185      190
Thr Phe Phe Asp Glu Asn His Ala Arg Ala Ile Gly Leu Arg Pro Glu
      195      200      205
Arg Leu Lys Ile Leu Phe Phe Thr Leu Leu Ala Val Ser Thr Val Ala
      210      215      220
Ala Leu Gln Thr Val Gly Ala Phe Leu Val Ile Cys Leu Val Val Thr
225      230      235      240
Pro Gly Ala Thr Ala Trp Leu Leu Thr Asp Arg Phe Pro Arg Leu Leu
      245      250      255
Met Ile Ala Val Ala Ile Gly Ser Ile Thr Ser Phe Leu Gly Ala Trp
      260      265      270
Ala Ser Tyr Tyr Leu Asp Gly Ala Thr Gly Gly Ile Ile Val Val Ala
      275      280      285
Gln Thr Leu Leu Phe Leu Leu Ala Phe Val Phe Ala Pro Lys His Gly
      290      295      300
Leu Leu Ala Ser Arg Arg Arg Ala Arg Glu Ala His Pro
305      310      315

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<210> 8198

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 8198

```

Pro Ser Gly Ser Arg Leu Phe Asn Asn Gly Val Cys Met Glu Phe Ser
1      5      10      15
Asn Pro Phe Asp Asn Pro Gln Gly Gln Phe Ala Ile Leu Gln Asn Asp
      20      25      30
Gln Gly Gln Tyr Ser Leu Trp Pro Gln Gln Cys Glu Leu Pro Ala Gly
      35      40      45
Trp Arg Val Val Cys Glu Pro Gln Ser Lys Glu Ala Cys Gln Gln Trp
      50      55      60
Leu Ala Glu Gln Trp Gln Thr Leu Glu Pro Phe Tyr Phe Ala Gly Glu
65      70      75      80
Arg Ala

```

<210> 8199

<211> 507

<212> PRT

<213> Enterobacter cloacae

<400> 8199

```

Thr Ser Arg Leu Lys Tyr Gly Leu Glu Phe Thr His Leu Asn Leu Asp
1      5      10      15
Gly Leu His Leu Gly Val Thr Leu Lys Arg His Asp Ala Val Leu Thr

```

20					25					30					
Ala	Asn	Ala	Gly	Val	Phe	Val	Ala	Ala	His	Arg	His	Leu	Arg	Gly	Gly
	35						40					45			
Phe	Ala	Pro	Gly	Val	Asp	Pro	Ala	Asp	Ala	Arg	Phe	Glu	Leu	Met	Asn
	50					55					60				
Ser	Ala	Val	Gly	Ala	Val	Gln	Ile	Gly	Gly	Asp	Asn	Ala	Arg	Arg	Gln
	65					70					75			80	
Thr	Val	Val	Gly	Val	Ile	Gly	Ala	Ala	Asn	Gly	Phe	Phe	Val	Ser	Val
						85					90			95	
Ile	Gly	Lys	Asn	Gly	His	His	Arg	Ala	Glu	Asp	Leu	Phe	Ala	His	Asp
			100					105					110		
Gly	His	Phe	Val	Gly	Ala	Val	Gly	Glu	His	Gly	Arg	Gly	His	Pro	Arg
	115						120					125			
Ala	Val	Val	Lys	Ala	Val	Thr	Leu	Gln	His	Val	Thr	Ala	Ala	Gln	His
	130					135					140				
Ala	Arg	Ala	Phe	Leu	Phe	Ala	Phe	Gly	Asp	Val	Ala	Gln	His	Ala	Val
	145					150					155			160	
Pro	Val	Arg	Glu	Ala	Asn	His	Arg	Ala	Lys	Val	Gly	Ala	Phe	Ile	Glu
						165					170			175	
Gln	Ile	Ala	Arg	Ala	Asp	Ala	Ala	His	Ala	Leu	Asn	Asp	Phe	Leu	Leu
			180					185					190		
Lys	Arg	Gly	Phe	Glu	Leu	Arg	Gly	His	Glu	His	Ala	Gly	Ala	Ile	Gly
			195				200					205			
Ala	His	Leu	Ala	Gly	Ala	Glu	Glu	Ile	Gly	His	His	Gly	Asp	Ile	Cys
	210					215						220			
Arg	Glu	Ile	Gln	Ile	Arg	Ile	Val	Lys	His	Tyr	Gln	Arg	Gly	Phe	Thr
	225					230					235			240	
Ala	Gln	Leu	His	Arg	His	Leu	Phe	Gln	Gly	Arg	Gly	Arg	Arg	Val	Gly
						245					250			255	
His	His	Phe	Phe	Ala	Ala	Gly	Asp	Ala	Ala	Gly	Lys	Gly	Asp	Phe	Gly
			260				265						270		
Asp	Ala	Arg	Met	Leu	Gly	Gln	Val	Leu	Ala	Ser	Leu	Arg	Ala	Tyr	Ala
			275				280					285			
Arg	Gln	Asp	Val	Lys	His	Ala	Val	Arg	Gln	Ala	Arg	Phe	Gly	Val	Asp
	290					295					300				
Phe	Ser	Lys	Leu	Gln	Gly	Gly	Lys	Arg	Cys	His	Phe	Ala	Arg	Leu	Glu
						310					315			320	
Asp	His	Cys	Val	Ala	Arg	Arg	Gln	Arg	Arg	Gly	Phe	Pro	Gln	Gly	
						325					330			335	
Asp	Leu	Asp	Arg	Val	Val	Pro	Arg	Ala	Asp	Ala	Arg	His	His	Ala	Gln
			340				345					350			
Arg	Leu	Ala	Ala	Gly	Val	Asp	Glu	Arg	Gly	Val	Ala	Gln	Arg	Asp	Leu
			355				360					365			
Ala	Ala	Leu	Gln	Arg	Arg	Asp	Gln	Pro	Arg	Val	Val	Leu	Gln	His	Val
	370					375					380				
Arg	Ala	Gly	Asp	Asp	Val	Asp	Gly	Arg	Gly	Phe	Gly	Ile	Arg	Phe	Thr
	385					390					395			400	
Gly	Val	Glu	Gly	Phe	Gln	Arg	Cys	Gln	Leu	Val	Val	Thr	Leu	Ala	Gln
						405					410			415	
Asp	Ile	Asp	Gly	Ala	Thr	Gln	Asp	Ala	Arg	Ala	Leu	His	Gly	Gly	His
			420				425					430			
Arg	Arg	Pro	Asp	Phe	Leu	Pro	Ala	Leu	Cys	Ala	Phe	Asp	Gly	Ala	Val
			435				440					445			
His	Val	Phe	Ala	Pro	Gly	Gly	Leu	His	Gly	Arg	Gln	Asn	Phe	Thr	Val
			450			455					460				
Arg	Arg	Val	Asp	Gly	Leu	Glu	Gly	Ala	Thr	Ala	Gly	Gly	Gly	Cys	Ile
			465			470					475			480	
Thr	Thr	Ile	Asp	Ile	Lys	Leu	Leu	Phe	Cys	His	Ser	Gly	His	Lys	Phe
						485					490			495	
Ser	Ser	Val	Ser	Arg	Ser	Val	Asn	Ala	Gly						
			500				505								

<210> 8200
 <211> 681
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8200

```

Gly Tyr Trp Met Thr Asp Leu Ser Gln Asp Arg Glu Lys Asp Lys Ile
1      5      10      15
Asn Pro Val Val Phe Tyr Thr Ser Ala Gly Leu Ile Leu Leu Phe Ser
      20      25      30
Leu Thr Thr Ile Phe Phe Arg Asp Phe Ser Ala Glu Trp Ile Gly Arg
35      40      45
Thr Leu Asp Trp Val Ser Lys Thr Phe Gly Trp Tyr Tyr Leu Leu Ala
50      55      60
Ala Thr Leu Tyr Ile Val Phe Val Val Cys Ile Ala Cys Ser Arg Phe
65      70      75      80
Gly Ser Val Lys Leu Gly Pro Glu Gln Ser Lys Pro Glu Phe Ser Leu
      85      90      95
Leu Ser Trp Ala Ala Met Leu Phe Ala Ala Gly Ile Gly Ile Asp Leu
100      105      110
Met Phe Phe Ser Val Ala Glu Pro Val Thr Gln Tyr Met Gln Pro Pro
115      120      125
Glu Gly Ala Gly Gln Thr Met Glu Ala Ala Arg Gln Ala Met Val Trp
130      135      140
Thr Leu Phe His Tyr Gly Leu Thr Gly Trp Ser Met Tyr Ala Leu Met
145      150      155      160
Gly Met Ala Leu Gly Tyr Phe Ser Tyr Arg Tyr Asn Leu Pro Leu Thr
      165      170      175
Ile Arg Ser Ala Leu Tyr Pro Ile Phe Gly Lys Lys Ile Asn Gly Pro
180      185      190
Ile Gly His Ser Val Asp Ile Ala Ala Val Ile Gly Thr Ile Phe Gly
195      200      205
Ile Ala Thr Thr Leu Gly Ile Gly Val Val Gln Leu Asn Tyr Gly Leu
210      215      220
Ser Val Leu Phe Asp Ile Pro Asp Ser Met Ala Ala Lys Ala Ala Leu
225      230      235      240
Ile Ala Leu Ser Val Ile Ile Ala Thr Ile Ser Val Thr Ser Gly Val
      245      250      255
Asp Lys Gly Ile Arg Val Leu Ser Glu Leu Asn Val Ala Leu Ala Leu
260      265      270
Gly Leu Ile Leu Phe Val Leu Phe Met Gly Asp Thr Ser Phe Leu Leu
275      280      285
Asn Ala Leu Val Leu Asn Val Gly Asp Tyr Val Asn Arg Phe Met Gly
290      295      300
Met Thr Leu Asn Ser Phe Ala Phe Asp Arg Pro Thr Glu Trp Met Asn
305      310      315      320
Asn Trp Thr Leu Phe Phe Trp Ala Trp Trp Val Ala Trp Ser Pro Phe
      325      330      335
Val Gly Leu Phe Leu Ala Arg Ile Ser Arg Gly Arg Thr Ile Arg Gln
340      345      350
Phe Val Met Gly Thr Leu Ile Ile Pro Phe Thr Phe Thr Leu Leu Trp
355      360      365
Leu Ser Ile Phe Gly Asn Ser Ala Leu His Glu Ile Ile His Gly Asn
370      375      380
Ala Thr Phe Ala Gln Glu Ala Met Ala His Pro Glu Arg Gly Phe Tyr
385      390      395      400
Ser Leu Leu Ala Gln Tyr Pro Ala Phe Thr Phe Ser Ala Ser Val Ala
      405      410      415
Thr Ile Thr Gly Leu Leu Phe Tyr Val Thr Ser Ala Asp Ser Gly Ala
420      425      430

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```

Leu Val Leu Gly Asn Phe Thr Ser Lys Leu Lys Asp Ile Asn Ser Asp
    435                      440                      445
Ala Pro Asn Trp Leu Arg Ile Phe Trp Ser Val Ala Ile Gly Leu Leu
    450                      455                      460
Thr Leu Gly Met Leu Met Thr Asn Gly Ile Ser Ala Leu Gln Asn Thr
    465                      470                      475                      480
Thr Val Ile Met Gly Leu Pro Phe Ser Phe Val Ile Phe Phe Val Met
    485                      490                      495
Ala Gly Leu Tyr Lys Ser Leu Lys Val Glu Asp Tyr Arg Arg Val Ser
    500                      505                      510
Ala Ser Arg Asp Thr Ala Pro Arg Pro Leu Gly Ala Gln Asp Arg Leu
    515                      520                      525
Ser Trp Lys Lys Arg Leu Ser Arg Leu Met Asn Tyr Pro Gly Thr Arg
    530                      535                      540
Tyr Thr Lys Gln Met Met Glu Thr Val Cys Phe Pro Ala Met Glu Glu
    545                      550                      555                      560
Val Ala Gln Glu Leu Lys Leu Arg Gly Ala Tyr Val Glu Leu Lys Asn
    565                      570                      575
Leu Pro Pro Glu Glu Gly Glu Asn Leu Gly His Leu Asp Leu Leu Val
    580                      585                      590
His Met Gly Asp Glu Gln Asn Phe Val Tyr Gln Ile Trp Pro Gln Gln
    595                      600                      605
Tyr Ser Val Pro Gly Phe Thr Tyr Arg Ala Arg Ser Gly Lys Ser Thr
    610                      615                      620
Tyr Tyr Arg Leu Glu Thr Phe Leu Leu Glu Gly Ser Gln Gly Asn Asp
    625                      630                      635                      640
Leu Met Asp Tyr Ser Lys Glu Gln Val Ile Thr Asp Ile Leu Asp Gln
    645                      650                      655
Tyr Glu Arg His Leu Asn Phe Ile His Leu His Arg Glu Ala Pro Gly
    660                      665                      670
Asn Ser Val Met Phe Pro Asp Ala
    675                      680

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<210> 8201

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 8201

```

Cys Leu Leu Tyr Leu Leu Leu Glu Val Tyr Tyr Val Arg Leu Tyr Val
1      5      10      15
Val Pro Arg Tyr Lys Met Ser Ile Phe Asp Glu Leu Lys Thr Ser Leu
20      25      30
Glu Glu Ala Val Glu Ile His Ser Gly Arg Lys Ala Ala Ser Arg Val
35      40      45
Thr Arg Tyr Glu Val Ala Asp Val Arg Ala Ile Arg Glu Gln Leu Asn
50      55      60
Ile Thr Gln Ser Glu Met Ala Lys Ala Leu Gly Thr Ser Val Asp Thr
65      70      75      80
Ile Lys Ser Trp Glu Ser Lys Arg Arg Asn Pro Thr Gly Leu Ala Ala
85      90      95
Lys Val Leu Asn Val Ile Arg Glu Asn Pro Ala Phe Tyr Lys Ala Leu
100     105     110
Ala Gly Gln
115

```

<210> 8202

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 8202

```

Asn Arg Arg Pro Leu Trp Arg Arg Ala Val Arg Arg Leu Ser Glu Arg
1      5      10      15
Gly Lys Arg Pro Gly Ala Asn Leu Tyr Arg Ser Ala Glu Arg His His
20      25      30
Pro His Ala Gly Ala Gly His Pro Arg Arg Asp Glu Gly Val Ile Met
35      40      45
Gln Lys Gly Ile Val Val Thr Asp Val Thr Val Thr Tyr Arg Asn Gly
50      55      60
His Thr Ala Leu Arg Asp Ala Ser Phe Ser Val Pro Gly Gly Ser Ile
65      70      75      80
Ala Ala Leu Val Gly Val Asn Gly Ser Gly Lys Ser Thr Leu Phe Lys
85      90
Ala Val Met Gly Phe Val Arg Ala Ala Ser Gly Thr Ile Ser Ile Leu
100     105     110
Gly Leu Pro Pro His Arg Ala Leu Arg Gln Asn Leu Val Ala Tyr Val
115     120     125
Pro Gln Ser Glu Glu Val Asp Trp Ser Phe Pro Val Leu Val Glu Asp
130     135     140
Val Val Met Met Gly Arg Tyr Gly His Met Gly Phe Leu Arg Arg Pro
145     150     155     160
Lys Glu Cys Asp Lys Gln Ile Val Thr Asp Ala Leu Lys Arg Val Asp
165     170     175
Met Leu Glu Leu Arg His Arg Gln Ile Gly Glu Leu Ser Gly Gly Gln
180     185     190
Lys Lys Arg Val Phe Leu Ala Arg Ala Ile Ala Gln Gln Gly Glu Val
195     200     205
Ile Leu Leu Asp Glu Pro Phe Thr Gly Val Asp Val Lys Thr Glu Ala
210     215     220
Arg Ile Ile Ser Leu Leu Arg Glu Leu Arg Asp Glu Gly Lys Thr Met
225     230     235     240
Leu Val Ser Thr His Asn Leu Gly Ser Val Thr Glu Phe Cys Asp Tyr
245     250     255
Thr Val Met Val Lys Gly Thr Val Leu Ala Ser Gly Pro Thr Asp Ile
260     265     270
Thr Phe Thr Ala Glu Asn Leu Glu Arg Ala Phe Ser Gly Val Leu Arg
275     280     285
His Val Val Leu Ser Gly Ser Glu Asp Arg Ile Ile Thr Asp Asp Glu
290     295     300
Arg Pro Phe Val Ala His Arg Gln Glu Ala Lys
305     310     315

```

<210> 8203

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 8203

```

Arg Arg Gly Val Ala Asp Cys Ala Val Pro Arg Val Gly Thr Ala His
1      5      10      15
Pro Cys Ala Ala Ala Gln Pro Leu Trp Pro Asp Arg Ser Gly Gly Gly
20      25      30
Arg Gln Leu Val Ser Gly Val Arg Pro Arg Ala Gly Gly Gly Arg
35      40      45
Glu Gln Arg Ala Asp Arg Leu Pro Gly Val Glu Tyr Gly Ala Ala His
50      55      60
Ser Gly Arg Asp Asp Ala Pro Gly Ala Val Arg Arg Gly Gly Gly Ser
65      70      75      80
Val Ser His Arg His Pro Ala Gly Ala Gly Val Ser Gly Thr Pro Arg
85      90      95
Pro Tyr Arg Gln Pro Leu Tyr Arg Arg Pro Val Arg Ala Gly Arg Ala

```

100
Asp Val Pro His Arg
115

105

110

<210> 8204
<211> 421
<212> PRT
<213> Enterobacter cloacae

<400> 8204

Thr Gln Gly Phe Val Met Asn Gln Lys Ser Trp Leu Leu Asn Leu Ser
1 5 10 15
Leu Leu Lys Thr His Pro Ala Tyr Arg Ala Val Phe Ile Ala Arg Phe
20 25 30
Ile Ser Ile Leu Ser Leu Gly Leu Gly Val Ala Val Pro Val Gln
35 40 45
Ile Gln Thr Ile Thr His Ser Ser Trp Leu Val Gly Leu Ser Val Thr
50 55 60
Leu Thr Gly Gly Ala Met Phe Ile Gly Leu Met Val Gly Gly Val Leu
65 70 75 80
Ala Asp Arg Tyr Glu Arg Lys Lys Leu Ile Leu Leu Ala Arg Gly Thr
85 90 95
Cys Gly Val Gly Phe Val Gly Leu Cys Leu Asn Ala Met Leu Pro Glu
100 105 110
Pro Ser Leu Val Ala Ile Tyr Val Leu Gly Leu Trp Asp Gly Phe Phe
115 120 125
Ala Ser Leu Gly Val Thr Ala Leu Leu Ala Ala Thr Pro Ala Leu Val
130 135 140
Gly Arg Glu Asn Leu Met Gln Ala Gly Ala Ile Thr Met Leu Thr Val
145 150 155 160
Arg Leu Gly Ser Val Ile Ser Pro Met Val Gly Gly Leu Leu Leu Ala
165 170 175
Thr Gly Asn Val Ala Trp Asn Tyr Gly Leu Ala Ala Ala Gly Thr Phe
180 185 190
Ile Thr Thr Leu Thr Leu Leu Arg Leu Pro Leu Leu Pro Pro Pro Pro
195 200 205
Gln Pro Arg Glu His Pro Leu Lys Ser Leu Met Ala Ala Ile Arg Phe
210 215 220
Leu Phe Ser Asn Pro Leu Ile Gly Gly Ile Ala Leu Leu Gly Gly Leu
225 230 235 240
Leu Thr Met Ala Ser Ala Val Arg Val Leu Tyr Pro Ala Leu Ala Gly
245 250 255
Glu Trp Gln Met Ser Ala Ser Glu Ile Gly Val Leu Tyr Ala Ala Ile
260 265 270
Pro Leu Gly Ala Ala Cys Gly Ala Leu Thr Ser Gly Asn Leu Ala Gln
275 280 285
Ser Ala Arg Pro Gly Leu Ile Met Leu Val Ala Thr Leu Ala Ser Phe
290 295 300
Ile Ala Ile Gly Phe Phe Ser Leu Met Pro Val Trp Ala Leu Gly Val
305 310 315 320
Met Cys Leu Val Ile Phe Gly Trp Leu Ser Ala Val Ser Ser Leu Leu
325 330 335
Gln Tyr Thr Leu Ile Gln Thr Gln Thr Pro Glu Gly Met Leu Gly Arg
340 345 350
Ile Asn Gly Leu Trp Thr Ala Gln Asn Val Thr Gly Asp Ala Ile Gly
355 360 365
Ala Ala Ile Leu Gly Gly Met Gly Ala Ile Met Thr Pro Val Ala Ser
370 375 380
Ala Ser Ser Ser Gly Phe Val Leu Ala Met Ile Gly Ala Ile Leu Leu
385 390 395 400
Val Thr Leu Val Glu Leu Arg Arg Phe Arg Gln Glu Val Ala Leu Asn

Asp Gly Ala Ala
420

410

415

<210> 8205
<211> 332
<212> PRT
<213> Enterobacter cloacae

<400> 8205
Glu Ala Leu Ser Ser Ile Lys Ser Gly Cys Arg Ser Val Lys Ile Ala
1 5 10 15
Ala Val Cys Arg Asn Ala Leu Leu Thr Gly Leu Phe Val Leu Gly
20 25 30
Leu Thr Ser Ala Ala Ala Asp Asp Trp Pro Arg Gln Val Ser Asp Ser
35 40 45
Arg Gly Val His Thr Leu Glu Ser Lys Pro Thr Arg Ile Val Ser Thr
50 55 60
Ser Val Thr Leu Thr Gly Ser Leu Leu Ala Ile Asp Ala Pro Val Ile
65 70 75 80
Ala Ser Gly Ala Thr Thr Pro Asn Asn Arg Val Ala Asp Ala Gln Gly
85 90 95
Phe Leu Arg Gln Trp Gly Asp Ile Ala Lys Gln Arg Lys Val Ala Arg
100 105 110
Leu Tyr Ile Gly Glu Pro Ser Ala Glu Ala Val Ala Ala Gln Met Pro
115 120 125
Asp Leu Ile Leu Ile Ser Ala Thr Gly Gly Asp Ser Ala Leu Ala Leu
130 135 140
Tyr Asp Gln Leu Ser Ala Ile Ala Pro Thr Leu Ile Ile Asn Tyr Asp
145 150 155 160
Asp Lys Ser Trp Gln Glu Leu Leu Thr Gln Leu Gly Thr Ile Thr Gly
165 170 175
Gln Glu Thr Gln Ala Ala Glu Arg Ile Ala Ala Phe Asp Lys Gln Leu
180 185 190
Ala Gln Val Lys Gln Gln Met Lys Leu Pro Pro Gln Pro Val Asn Ala
195 200 205
Ile Val Tyr Thr Ala Ala Ala His Thr Ala Asn Leu Trp Thr Thr Asp
210 215 220
Ser Ala Gln Gly Lys Leu Leu His Gln Leu Gly Phe Thr Leu Ala Asp
225 230 235 240
Leu Pro Ala Gly Leu Gln Thr Ser Thr Ser Gln Gly Lys Arg His Asp
245 250 255
Ile Ile Gln Leu Gly Gly Glu Asn Leu Ala Thr Gly Leu Asn Gly Glu
260 265 270
Gly Leu Phe Val Phe Ala Gly Asp Gln Lys Asp Val Asn Ala Ile Tyr
275 280 285
Ala Asn Pro Leu Leu Ala His Leu Pro Ser Val Lys Asn Lys Arg Val
290 295 300
Trp Ala Leu Gly Thr Glu Thr Phe Arg Leu Asp Tyr Tyr Ser Ala Met
305 310 315 320
Leu Val Leu Asp Arg Leu Asn Ala Leu Phe Lys
325 330

<210> 8206
<211> 440
<212> PRT
<213> Enterobacter cloacae

<400> 8206
His Arg Asp Arg Pro Arg Gln Pro Arg Gly Ala Tyr Ala Ala Asp Gly
1 5 10 15

Pro Ala Cys His His Arg Ala Val Arg Gln Arg Asp Arg Arg Gly Arg
 20 25 30
 Pro Asp Cys Leu Tyr Arg Pro Asp Asp Ala Ala His Gly Ala Leu Ala
 35 40 45
 Gly Gly Gly Gly Ser Pro Leu Val Pro Pro Gly Asn Ala Ala Gly Asp
 50 55 60
 Pro Cys Pro Ala Ala Val Cys Arg Arg Ala Gly Pro Pro Ala Gly Ala
 65 70 75 80
 Gly Arg Thr Ala Cys Leu Gly Gly Gln Arg Leu Tyr Arg Arg Ala Gly
 85 90 95
 Ala Asp Leu Pro Gly Thr Thr Gln Thr Arg Gly Trp Arg Met Met Ala
 100 105 110
 Pro Ser Arg Arg Leu Leu Thr Ser Val Ala Leu Leu Val Val Ala Cys
 115 120 125
 Leu Leu Leu Ala Val Trp Ser Leu Gln Ser Gly Ala Val Thr Leu Asp
 130 135 140
 Phe Ala Gln Val Phe His Ala Leu Thr Gly Ser Ala Pro Arg Asn Ile
 145 150 155 160
 Thr Met Val Val Thr Glu Trp Arg Leu Pro Arg Val Ala Met Ala Ile
 165 170 175
 Leu Val Gly Ala Ala Leu Gly Val Ser Gly Ala Ile Phe Gln Ser Leu
 180 185 190
 Met Arg Asn Pro Leu Gly Ser Pro Asp Val Met Gly Leu Asn Thr Gly
 195 200 205
 Ala Trp Ser Gly Val Leu Val Ala Met Val Leu Phe Gly Gln His Leu
 210 215 220
 Thr Ala Ile Thr Phe Thr Ala Met Ala Gly Gly Ile Leu Thr Ser Leu
 225 230 235 240
 Leu Ile Trp Ala Leu Ala Trp Arg Asn Gly Ile Asp Thr Phe Arg Leu
 245 250 255
 Ile Ile Ile Gly Ile Gly Ile Arg Ala Met Leu Met Ala Phe Asn Thr
 260 265 270
 Trp Leu Leu Leu Gln Ala Ser Leu Glu Thr Ala Leu Ser Ala Gly Leu
 275 280 285
 Trp Tyr Ala Gly Ser Leu Asn Gly Leu Thr Trp Val Lys Thr Trp Pro
 290 295 300
 Ala Ala Pro Leu Ile Ile Leu Met Phe Ile Gly Ala Leu Leu Leu Val
 305 310 315 320
 Arg Arg Met Arg Leu Leu Glu Met Gly Asp Asp Ser Ala Cys Ala Leu
 325 330 335
 Gly Val Ser Val Glu Arg Ser Arg Leu Met Leu Met Leu Val Ala Val
 340 345 350
 Leu Leu Thr Ala Ala Ser Thr Ala Ile Ala Gly Pro Ile Ser Phe Ile
 355 360 365
 Ala Leu Val Ala Pro His Ile Ala Arg Arg Leu Ser Gly Thr Ala Arg
 370 375 380
 Trp Gly Leu Thr Gln Ala Ala Leu Cys Gly Ala Val Leu Leu Leu Ala
 385 390 395 400
 Ala Asp Leu Cys Ala Gln Arg Leu Phe Thr Pro Tyr Gln Leu Pro Val
 405 410 415
 Gly Val Val Thr Val Ser Leu Gly Gly Ile Tyr Leu Ile Val Leu Leu
 420 425 430
 Val Gln Glu Ser Arg Lys Lys
 435 440

<210> 8207

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 8207


```

Asp Thr Phe Tyr Ile Glu Arg Pro Ile Lys Asn Arg Phe Asn Arg Leu
1      5      10      15
Pro Thr Leu Met Asn Gly Val Ala Lys Met Pro Lys Val Gly Met Gln
20      25      30
Pro Ile Arg Arg Arg Gln Leu Ile Asp Ala Thr Leu Glu Ala Ile Asn
35      40      45
Glu Val Gly Met His Asp Ala Thr Ile Ala Gln Ile Ala Arg Arg Ala
50      55      60
Gly Val Ser Thr Gly Ile Ile Ser His Tyr Phe Lys Asn Lys Gly
65      70      75      80
Leu Leu Glu Ala Thr Met Arg Asp Ile Thr Gly Gln Leu Arg Asp Ala
85      90      95
Val Leu Ser Arg Leu Arg Ala Leu Pro Asp Gly Ser Ala Glu Gln Arg
100      105      110
Leu Gln Ala Ile Val Gly Gly Asn Phe Asp Glu Thr Gln Val Ser Gly
115      120      125
Ala Ala Met Lys Ala Trp Leu Ala Phe Trp Ala Ser Ser Met His Gln
130      135      140
Pro Met Leu Tyr Arg Leu Gln Gln Val Ser Ser Arg Arg Leu Leu Ser
145      150      155      160
Asn Leu Val Tyr Glu Phe Arg Arg Glu Leu Pro Arg Glu Gln Ala Glu
165      170      175
Glu Ala Gly Tyr Gly Leu Ala Ala Leu Ile Asp Gly Leu Trp Leu Arg
180      185      190
Ala Ala Leu Ser Gly Lys Pro Leu Asp Lys Thr Leu Ala Gln Ser Leu
195      200      205
Thr Ser His Phe Ile Ser Gln His Leu Pro Thr Asp
210      215      220

```

<210> 8208

<211> 353

<212> PRT

<213> *Enterobacter cloacae*

<400> 8208

```

Pro Asn Lys Ile Asp Asn Asp Asn His Tyr His Tyr Gln Ile Met Asp
1      5      10      15
Val Ala Met Ser Phe Ser Ser Ser Ala Val Arg Ala Leu Ala Val Pro
20      25      30
Val Leu Leu Leu Leu Ile Leu Ala Ile Ala Leu Ser Leu Leu Val
35      40      45
Gly Ala Lys Pro Leu Pro Ala Ser Val Ile Val Asp Ala Leu Ser Gly
50      55      60
Thr Cys Gln Ser Ala Asp Cys Thr Ile Val Leu Asp Ala Arg Leu Pro
65      70      75      80
Arg Thr Leu Ala Gly Leu Leu Ala Gly Gly Ala Leu Gly Leu Ala Gly
85      90      95
Ala Leu Met Gln Thr Leu Thr Arg Asn Pro Leu Ala Asp Pro Gly Ile
100      105      110
Leu Gly Val Asn Ser Gly Ala Ser Phe Ala Ile Val Leu Gly Ala Ala
115      120      125
Leu Phe Gly Phe Thr Ser Pro Ser Glu Gln Leu Val Met Ala Phe Cys
130      135      140
Gly Ala Leu Ala Ala Ser Leu Val Val Ala Phe Thr Gly Ser Gln Gly
145      150      155      160
Gly Gly Gln Leu Ser Pro Val Arg Leu Thr Leu Ala Gly Val Ala Leu
165      170      175
Ala Ala Val Leu Glu Gly Leu Ser Asn Gly Ile Ala Leu Leu Asn Pro
180      185      190
Asp Val Tyr Asp Gln Leu Arg Phe Trp Gln Ala Gly Ser Leu Asp Ile
195      200      205

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```

Arg Thr Leu Glu Thr Leu Lys Val Val Val Ile Pro Ala Ser Val Ala
  210      215      220
Ala Ala Val Ala Leu Cys Leu Ser Arg Ala Leu Asn Ser Leu Ser Leu
  225      230      235      240
Gly Ser Asp Thr Ala Thr Ala Leu Gly Asn Arg Val Ala Arg Thr Gln
      245      250      255
Leu Thr Gly Leu Leu Ala Ile Thr Val Leu Cys Gly Ser Ala Thr Ala
      260      265      270
Val Val Gly Pro Ile Ala Phe Ile Gly Leu Met Met Pro His Met Ala
      275      280      285
Arg Trp Leu Val Gly Ala Asp His Arg Trp Ser Leu Pro Val Thr Leu
      290      295      300
Leu Ala Thr Pro Ala Leu Leu Phe Ala Asp Val Leu Gly Arg Leu
      305      310      315      320
Leu Val Pro Gly Glu Leu Arg Val Ser Val Val Ser Ala Phe Ile Gly
      325      330      335
Ala Pro Val Leu Ile Phe Leu Val Arg Arg Arg Gly Gly Ala
      340      345      350

```

<210> 8209

<211> 531

<212> PRT

<213> Enterobacter cloacae

<400> 8209

```

Leu Thr Gly Cys Gly Cys Ala Leu Arg Ser Ala Ala Asn Arg Trp Ile
  1      5      10      15
Lys Pro Trp Pro Ser Arg Leu Pro Ala Thr Leu Ser Ala Ser Ile Tyr
      20      25      30
Arg Pro Thr Asn Arg Gly Glu Phe Met Ser Arg Met Ala Glu Gln Gln
      35      40      45
Leu Tyr Ile Asn Gly Gly Tyr Thr Ser Ala Thr Ser Gly Arg Thr Phe
      50      55      60
Glu Thr Ile Asn Pro Ala Asn Gly Glu Val Leu Ala Thr Val Gln Ala
      65      70      75      80
Ala Gly Arg Glu Asp Val Asp Arg Ala Val Glu Ser Ala Lys Arg Gly
      85      90      95
Gln Lys Ile Trp Ala Ala Met Thr Ala Met Glu Arg Ser Arg Ile Leu
      100      105      110
Arg Arg Ala Val Asp Ile Leu Arg Glu Arg Asn Asp Glu Leu Ala Thr
      115      120      125
Leu Glu Thr Leu Asp Thr Gly Lys Ala Tyr Ser Glu Thr Ser Thr Val
      130      135      140
Asp Ile Val Thr Gly Ala Asp Val Leu Glu Tyr Tyr Ala Gly Leu Ile
      145      150      155      160
Pro Ala Leu Glu Gly Ser Gln Ile Pro Leu Arg Asp Thr Ser Phe Val
      165      170      175
Tyr Thr Arg Arg Glu Pro Leu Gly Val Val Ala Gly Ile Gly Ala Trp
      180      185      190
Asn Tyr Pro Ile Gln Ile Ala Leu Trp Lys Ser Ala Pro Ala Leu Ala
      195      200      205
Ala Gly Asn Ala Met Ile Phe Lys Pro Ser Glu Val Thr Pro Leu Thr
      210      215      220
Ala Leu Lys Leu Ala Glu Ile Tyr Thr Glu Ala Gly Leu Pro Asp Gly
      225      230      235      240
Val Phe Asn Val Leu Pro Gly Val Gly Ala Glu Thr Gly Gln Tyr Leu
      245      250      255
Thr Glu His Pro Gly Ile Ala Lys Val Ser Phe Thr Gly Gly Val Ala
      260      265      270

```

Ser Gly Lys Lys Val Met Ala Asn Ser Ala Ala Ser Ser Leu Lys Glu
 275 280 285
 Val Thr Met Glu Leu Gly Gly Lys Ser Pro Leu Ile Val Phe Asp Asp
 290 295 300
 Ala Asp Leu Asp Leu Ala Ala Asp Ile Ala Met Met Ala Asn Phe Phe
 305 310 315 320
 Ser Ser Gly Gln Val Cys Thr Asn Gly Thr Arg Val Phe Val Pro Ala
 325 330 335
 Lys Phe Lys Ala Ala Phe Glu Gln Lys Ile Val Glu Arg Val Gly Arg
 340 345 350
 Ile Arg Ala Gly Asp Leu Phe Asp Glu Ser Thr Asn Phe Gly Pro Met
 355 360 365
 Val Ser Phe Pro His Arg Asp Ser Val Leu Arg Tyr Ile Thr Lys Gly
 370 375 380
 Lys Glu Glu Gly Ala Arg Val Leu Cys Gly Gly Asp Val Leu Lys Gly
 385 390 395 400
 Asp Gly Phe Asp Asn Gly Ala Trp Val Ala Pro Thr Val Phe Thr Asp
 405 410 415
 Cys Thr Asp Glu Met Thr Ile Val Arg Glu Glu Ile Phe Gly Pro Val
 420 425 430
 Met Ser Ile Leu Thr Tyr Asp Thr Asp Glu Glu Ala Ile Arg Arg Ala
 435 440 445
 Asn Asp Thr Asp Tyr Gly Leu Ala Ala Gly Ile Val Thr Ala Asn Leu
 450 455 460
 Asn Arg Ala His Gly Ala Ile His Gln Leu Glu Ala Gly Ile Cys Trp
 465 470 475 480
 Ile Asn Thr Trp Gly Glu Ser Ala Ala Glu Met Pro Val Gly Gly Tyr
 485 490 495
 Lys His Ser Gly Ile Gly Arg Glu Asn Gly Val Met Thr Leu Gln Ser
 500 505 510
 Tyr Thr Gln Val Lys Ser Ile Gln Val Glu Met Gly Lys Phe Gln Ser
 515 520 525
 Ile Phe
 530

<210> 8210

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 8210

Gly His Gln Ala Ala Pro Ser Phe Asn Ala Thr Ser Cys Leu Asn Arg
 1 5 10 15
 Arg Asn Ser Thr Ser Val Thr Ser Lys Ile Ala Pro Ile Ile Ala Asn
 20 25 30
 Thr Asn Pro Leu Leu Leu Ala Asp Ala Thr Gly Val Ile Ile Ala Pro
 35 40 45
 Ile Pro Pro Arg Ile Ala Ala Pro Ile Ala Ser Pro Val Thr Phe Cys
 50 55 60
 Ala Val His Arg Pro Leu Met Arg Pro Ser Ile Pro Ser Gly Val Trp
 65 70 75 80
 Val Trp Ile Arg Val Tyr Cys Lys Ser Glu Leu Thr Ala Leu Ser Gln
 85 90 95
 Pro Lys Ile Thr Arg His Ile Thr Pro Ser Ala His Thr Gly Ile Arg
 100 105 110
 Leu Lys Lys Pro Ile Ala Ile Asn Glu Ala Ser Val Ala Thr Ser Met
 115 120 125
 Ile Ser Pro Gly Leu Ala Leu Cys Ala Arg Leu Pro Leu Val Ser Ala
 130 135 140
 Pro His Ala Ala Pro Ser Gly Met Ala Ala Tyr Ser Thr Pro Ile Ser
 145 150 155 160

Glu Ala Leu Ile Cys His Ser Pro Ala Ser Ala Gly Tyr Ser Thr Arg
 165 170 175
 Thr Ala Leu Ala Ile Val Ser Arg Pro Pro Ser Ser Ala Met Pro Pro
 180 185 190
 Ile Asn Gly Leu Leu Asn Arg Lys Arg Ile Ala Ala Ile Arg Asp Phe
 195 200 205
 Ser Gly Cys Ser Arg Gly Cys Gly Gly Gly Arg Ser Gly Arg Arg
 210 215 220
 Ser Ser Val Arg Val Val Ile Lys Val Pro Ala Ala Arg Pro
 225 230 235 240

<210> 8211

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 8211

Arg His Arg Ala Leu Gly Ile Asn Pro Gly Gly Ala Val Arg Cys Ser
 1 5 10 15
 Ile Thr Ala Gly Arg Arg Ser Leu Arg Pro Ala Ala Val Tyr Ala Leu
 20 25 30
 Ser Thr Ala Gly Gly Arg Gly Asp Arg Gln Pro Arg Arg Asp Leu Pro
 35 40 45
 His Arg Leu Ala Arg Ser Gly Val Thr Gln Glu Met Thr Asp Leu Thr
 50 55 60
 Thr Arg Leu Arg Gly Glu Asn Leu Thr Leu Gly Tyr Gly Lys Lys Ile
 65 70 75 80
 Ile Ala Arg Asp Leu Ser Val Ala Ile Pro Asp Gly His Phe Thr Ala
 85 90 95
 Ile Ile Gly Pro Asn Gly Cys Gly Lys Ser Thr Leu Leu Arg Thr Leu
 100 105 110
 Ser Arg Leu Met Ser Pro Val Glu Gly Ser Val Phe Leu Asp Gly Glu
 115 120 125
 Gln Ile Gln Arg Phe Ala Ser Lys Glu Val Ala Arg Arg Ile Gly Leu
 130 135 140
 Leu Ala Gln Asn Ala Thr Thr Pro Gly Asp Ile Thr Val Gln Glu Leu
 145 150 155 160
 Val Ser Arg Gly Arg Tyr Pro His Gln Pro Leu Phe Thr Arg Trp Arg
 165 170 175
 Lys Glu Asp Asp Glu Ala Val Lys Arg Ala Met Gln Ala Thr Gly Ile
 180 185 190
 Thr Glu Leu Ala Gln Gln Ser Val Asp Thr Leu Ser Gly Gly Gln Arg
 195 200 205
 Gln Arg Ala Trp Ile Ala Met Val Leu Ala Gln Glu Thr Ser Ile Met
 210 215 220
 Leu Leu Asp Glu Pro Thr Thr Trp Leu Asp Ile Ser His Gln Ile Asp
 225 230 235 240
 Leu Leu Glu Leu Leu Ser Glu Leu Asn Arg Thr Gln Gly Tyr Thr Leu
 245 250 255
 Ala Ala Val Leu His Asp Leu Asn Gln Ala Cys Arg Tyr Ala Thr His
 260 265 270
 Leu Ile Ala Leu Arg Asp Gly Glu Ile Val Ala Gln Gly Ala Pro Lys
 275 280 285
 Glu Ile Val Thr Pro Glu Leu Ile Ala Arg Ile Tyr Gly Met Arg Cys
 290 295 300
 Met Ile Ile Asp Asp Pro Val Ala Gly Thr Pro Leu Val Val Pro Leu
 305 310 315 320
 Gly Lys Arg Ala Val
 325

<210> 8212

<211> 109
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8212
 Thr Pro Asp Ala Arg Ala Arg Ser Leu Pro Ala Pro Pro Gly Arg Gly
 1 5 10 15
 Arg Trp Pro Leu Ser Pro Pro Ser Ser Gly Phe Pro Ala Ala Arg Tyr
 20 25 30
 Pro Ala Gly Arg Gly Thr Pro Pro Leu His Pro Ala Arg Ala Gly Gly
 35 40 45
 Pro Gln Cys Pro Ala Pro Ala Cys Arg Arg Gly Asn Ser Arg Thr Gly
 50 55 60
 Asn Thr Ala Pro Ala Ala Ala Ala Tyr Ala Thr Cys Ser Asp Asp Val
 65 70 75 80
 Arg Ser Pro His Arg Asp Pro Arg Thr Ala Ala Ser Gly Arg Leu Ala
 85 90 95
 Ala Ala Thr Glu Cys Arg Arg Trp Thr Ser Ala Gly
 100 105

<210> 8213
 <211> 755
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8213
 Ile Thr Ile Lys Ala Gly Arg Thr Met Asn Lys Lys Ile His Ser Leu
 1 5 10 15
 Ala Leu Leu Val Asn Leu Gly Ile Tyr Gly Val Ala Leu Pro Ala Met
 20 25 30
 Ala Asp Asp Asn Thr Ala Ser Ala Gln His Glu Asp Thr Met Val Ile
 35 40 45
 Thr Ala Ala Glu Gln Asn Leu Gln Ala Pro Gly Val Ser Thr Ile Thr
 50 55 60
 Ala Asp Glu Ile Arg Lys Asn Pro Pro Ala Arg Asp Val Ala Glu Ile
 65 70 75 80
 Ile Arg Thr Met Pro Gly Val Asn Leu Thr Gly Asn Ser Thr Ser Gly
 85 90 95
 Gln Arg Gly Asn Asn Arg Gln Ile Asp Ile Arg Gly Met Gly Pro Glu
 100 105 110
 Asn Thr Leu Ile Leu Ile Asp Gly Lys Pro Val Thr Ser Arg Asn Ser
 115 120 125
 Ile Arg Leu Gly Trp Arg Gly Glu Arg Asp Thr Arg Gly Asp Thr Gly
 130 135 140
 Trp Val Pro Pro Glu Met Ile Glu Arg Ile Glu Val Ile Arg Gly Pro
 145 150 155 160
 Ala Ala Ala Arg Tyr Gly Asn Gly Ala Ala Gly Gly Val Val Asn Ile
 165 170 175
 Ile Thr Lys Lys Phe Asp Asp Gln Trp His Gly Ser Trp Asn Thr Tyr
 180 185 190
 Leu Asn Ala Pro Glu His Lys Asp Glu Gly Ser Thr Lys Arg Thr Asn
 195 200 205
 Phe Ser Leu Ser Gly Pro Leu Gly Gly Asp Phe Ser Phe Arg Met Tyr
 210 215 220
 Gly Asn Leu Asp Lys Thr Gln Ala Asp Ala Trp Asp Ile Asn Gln Gly
 225 230 235 240
 His Gln Ser Asp Arg Thr Gly Ala Tyr Ala Asn Thr Leu Pro Ala Gly
 245 250 255
 Arg Glu Gly Val Glu Asn Lys Asp Ile Asn Gly Val Val Arg Trp Asp
 260 265 270
 Phe Ala Pro Met Gln Ser Leu Glu Phe Glu Ala Gly Tyr Ser Arg Gln

275				280				285							
Asn	Asn	Leu	Tyr	Ala	Gly	Asp	Thr	Gln	Asn	Thr	Asn	Asn	Asp	Asn	Ala
290						295					300				
Leu	Val	Lys	Lys	Asn	Tyr	Gly	Lys	Glu	Thr	Asn	Arg	Ile	Tyr	Arg	Gln
305						310					315				320
Asn	Phe	Ala	Val	Thr	Trp	Asn	Gly	Gly	Trp	Asp	Asn	Gly	Ile	Thr	Thr
						325					330				335
Ser	Asn	Trp	Ala	Gln	Tyr	Glu	His	Thr	Arg	Asn	Ser	Arg	Leu	Gly	Glu
						340					345				
Gly	Leu	Ala	Gly	Gly	Leu	Glu	Gly	Leu	Phe	Asn	Ser	Asn	Lys	Phe	Thr
						355					360				
Asp	Thr	Asp	Leu	Ala	Asp	Val	Met	Leu	His	Ser	Glu	Ile	Asn	Leu	Pro
						370					375				
Ile	Asp	Phe	Ile	Val	Asn	Gln	Asn	Leu	Thr	Leu	Gly	Thr	Glu	Trp	Asn
						385					390				400
Gln	Gln	Arg	Met	Lys	Asp	Ser	Thr	Ser	Phe	Thr	Gln	Thr	Gln	Gln	Gly
						405					410				415
Gly	Thr	Ile	Pro	Gly	Met	Ser	Glu	Asp	Arg	Ser	Pro	Tyr	Thr	Ser	Ala
						420					425				430
Glu	Ile	Phe	Ser	Leu	Phe	Ala	Glu	Asn	Asn	Met	Glu	Leu	Thr	Asp	Ser
						435					440				445
Thr	Met	Leu	Thr	Pro	Ala	Leu	Arg	Phe	Asp	His	His	Thr	Ile	Val	Gly
						450					455				
Asn	Asn	Trp	Ser	Pro	Ser	Leu	Asn	Leu	Ser	Gln	Gly	Leu	Gly	Asp	Asp
						465					470				480
Phe	Thr	Leu	Lys	Met	Gly	Ile	Ala	Arg	Ala	Tyr	Lys	Ala	Pro	Ser	Leu
						485					490				495
Tyr	Gln	Thr	Asn	Pro	Asn	Tyr	Leu	Leu	Tyr	Ser	Lys	Gly	Gln	Gly	Cys
						500					505				510
Tyr	Ala	Ser	Ser	Asp	Gly	Val	Gly	Cys	Tyr	Met	Met	Gly	Asn	Asp	Asp
						515					520				525
Leu	Lys	Ala	Glu	Thr	Ser	Ile	Asn	Lys	Glu	Ile	Gly	Leu	Glu	Trp	Lys
						530					535				540
Arg	Asp	Gly	Trp	Leu	Ala	Gly	Val	Thr	Trp	Phe	Arg	Asn	Asp	Tyr	Arg
						545					550				555
Asn	Lys	Ile	Glu	Ala	Gly	Tyr	Ala	Pro	Ile	Gly	Gln	Thr	Ser	Thr	Gly
						565					570				575
Lys	Val	Thr	Thr	Asp	Ile	Tyr	Gln	Trp	Glu	Asn	Val	Pro	Lys	Ala	Val
						580					585				590
Val	Glu	Gly	Leu	Glu	Gly	Ser	Leu	Asn	Val	Pro	Val	Ser	Asp	Thr	Ile
						595					600				605
Asn	Trp	Thr	Asn	Asn	Ile	Thr	Tyr	Met	Leu	Gln	Ser	Lys	Asn	Lys	Glu
						610					615				620
Thr	Gly	Asp	Arg	Leu	Ser	Ile	Ile	Pro	Glu	Tyr	Thr	Leu	Asn	Ser	Thr
						625					630				635
Leu	Ser	Trp	Gln	Val	Arg	Gln	Asp	Val	Ser	Leu	Gln	Ser	Thr	Phe	Thr
						645					650				655
Trp	Tyr	Gly	Lys	Gln	Gln	Pro	Lys	Lys	Tyr	Asn	Tyr	Lys	Gly	Gln	Pro
						660					665				670
Val	Thr	Gly	Ser	Glu	Lys	Asp	Glu	Val	Ser	Pro	Tyr	Ser	Ile	Val	Gly
						675					680				685
Leu	Ser	Ala	Thr	Trp	Asp	Val	Thr	Lys	Asn	Val	Ser	Leu	Thr	Gly	Gly
						690					695				700
Val	Asp	Asn	Val	Phe	Asp	Lys	Arg	Gln	Trp	Arg	Ala	Gly	Asn	Ala	Gln
						705					710				715
Thr	Thr	Gly	Asn	Thr	Thr	Gly	Ala	Tyr	Met	Tyr	Gly	Ala	Gly	Ala	
						725					730				735
Tyr	Thr	Tyr	Asn	Glu	Pro	Gly	Arg	Thr	Trp	Tyr	Met	Ser	Val	Asn	Thr
						740					745				750
Arg	Phe														

<210> 8214
 <211> 254
 <212> PRT
 <213> Enterobacter cloacae

<400> 8214
 Cys Leu Leu Pro Leu Pro Leu Gly Glu Gly Trp Gly Glu Gly Ile Arg
 1 5 10 15
 Pro His Asn Thr Glu Gly Lys Thr Met His Thr Thr His Ser Thr Phe
 20 25 30
 Ser Leu Ala Gly His Thr Leu His Arg Ile Thr Phe Asp Pro Thr Thr
 35 40 45
 Phe Thr Asp Ala Asp Leu Leu Trp Leu Pro His His Ala Gln Leu Ala
 50 55 60
 Asn Ala Gly Arg Lys Arg Lys Ala Asp His Leu Ala Gly Arg Ile Ala
 65 70 75 80
 Ala Ala His Ala Leu Pro Asp Tyr Thr Met Pro Ala Ile Gly Pro Ser
 85 90 95
 Gly Glu Pro Leu Trp Pro Gln Gly Ile Ser Gly Ser Ile Thr His Ser
 100 105 110
 Gly Thr Gln Ala Ile Ala Val Val Thr Gln Tyr Pro Ala Leu Ile Gly
 115 120 125
 Ile Asp Cys Glu Thr Ile Leu Ser Glu Asn Glu Ala Arg Glu Ile Lys
 130 135 140
 Asp Gly Ile Ile Asp Thr Gln Glu Glu Pro Val Leu Ser Arg Leu Gly
 145 150 155 160
 Tyr Pro Phe Ala Leu Ala Leu Thr Leu Val Phe Ser Ala Lys Glu Ser
 165 170 175
 Leu Phe Lys Ala Leu Phe Pro Gln Val Gln Ala Trp Met Gly Phe Asp
 180 185 190
 Cys Ala Arg Val Thr Met Leu Asp Asp Lys Thr Leu Thr Leu Ala Leu
 195 200 205
 Thr Cys Gln Leu Ala Asp Phe Gln Glu Gly Thr Ala Phe Pro Leu His
 210 215 220
 Trp Gln Gln His Gly Glu Gln Val Ile Thr Leu Leu Ser His Ala Pro
 225 230 235 240
 Gly Asp Glu Pro Ser Arg Trp Ser Pro Gln Thr Ser Arg
 245 250

<210> 8215
 <211> 574
 <212> PRT
 <213> Enterobacter cloacae

<400> 8215
 Ser Pro Ser Arg Leu Arg Trp Val Asn Ser Ser Pro Tyr Phe Asn Arg
 1 5 10 15
 Glu Val Tyr Leu Gln Phe Asp Tyr Ile Ile Ile Gly Ala Gly Ser Ala
 20 25 30
 Gly Asn Val Leu Ala Thr Arg Leu Leu Thr Glu Asp Pro Asn Thr Thr Val
 35 40 45
 Leu Leu Leu Glu Ala Gly Gly Pro Asp Tyr Arg Phe Asp Phe Arg Thr
 50 55 60
 Gln Met Pro Ala Ala Leu Ala Phe Pro Leu Gln Gly Lys Arg Tyr Asn
 65 70 75 80
 Trp Ala Tyr Glu Thr Glu Pro Glu Pro Phe Met Asn Asn Arg Arg Met
 85 90 95
 Glu Cys Gly Arg Gly Lys Gly Leu Gly Gly Ser Ser Leu Ile Asn Gly
 100 105 110
 Met Cys Tyr Val Arg Gly Asn Ala Met Asp Leu Asp Asn Trp Ala Lys

115 120 125
 Glu Pro Gly Leu Glu His Trp Ser Tyr Leu Asn Cys Leu Pro Tyr Tyr
 130 135 140
 Arg Lys Ala Glu Thr Arg Asp Val Gly Pro Asn Asp Tyr His Gly Gly
 145 150 155 160
 Asp Gly Pro Val Ser Val Thr Thr Ser Lys Pro Gly Val Asn Pro Leu
 165 170 175
 Phe Glu Ala Met Val Glu Ala Gly Val Gln Ala Gly Tyr Pro Arg Thr
 180 185 190
 Asp Asp Leu Asn Gly Tyr Gln Gln Glu Gly Phe Gly Pro Met Asp Arg
 195 200 205
 Thr Val Thr Pro Gln Gly Arg Arg Ala Ser Thr Ala Arg Gly Tyr Leu
 210 215 220
 Asp Gln Ala Lys Pro Arg Pro Asn Leu Thr Ile Arg Thr His Ala Met
 225 230 235 240
 Thr Asp His Ile Ile Phe Asp Gly Lys Arg Ala Val Gly Val Glu Trp
 245 250 255
 Leu Glu Gly Glu Ser Thr Ile Pro Ser Lys Ala Thr Ala Lys Lys Glu
 260 265 270
 Val Leu Leu Cys Ala Gly Ala Ile Ala Ser Pro Gln Ile Leu Gln Arg
 275 280 285
 Ser Gly Val Gly Asn Ala Glu Leu Leu Lys Gln Phe Asp Ile Pro Leu
 290 295 300
 Val His Asp Leu Pro Gly Val Gly Glu Asn Leu Gln Asp His Leu Glu
 305 310 315 320
 Met Tyr Leu Gln Tyr Glu Cys Lys Glu Pro Val Ser Leu Tyr Pro Ala
 325 330 335
 Leu Gln Trp Trp Asn Gln Pro Lys Ile Gly Ala Glu Trp Leu Phe Gly
 340 345 350
 Gly Thr Gly Val Gly Ala Ser Asn His Phe Glu Ala Gly Gly Phe Ile
 355 360 365
 Arg Ser Arg Glu Glu Phe Glu Trp Pro Asn Ile Gln Tyr His Phe Leu
 370 375 380
 Pro Val Ala Ile Asn Tyr Asn Gly Ser Asn Ala Val Lys Glu His Gly
 385 390 395 400
 Phe Gln Cys His Val Gly Ser Met Arg Ser Pro Ser Arg Gly His Val
 405 410 415
 Arg Ile Lys Ser Arg Asp Pro His Gln His Pro Ala Ile Leu Phe Asn
 420 425 430
 Tyr Met Ser His Glu Gln Asp Trp Gln Glu Phe Arg Asp Ala Ile Arg
 435 440 445
 Ile Thr Arg Glu Ile Met His Gln Pro Ala Leu Asp Lys Tyr Arg Gly
 450 455 460
 Arg Glu Ile Ser Pro Gly Val Glu Cys Gln Thr Asp Glu Gln Leu Asp
 465 470 475 480
 Glu Phe Val Arg Asn His Ala Glu Thr Ala Phe His Pro Cys Gly Thr
 485 490 495
 Cys Lys Met Gly Tyr Asp Glu Met Ala Val Val Asp Gly Glu Gly Arg
 500 505 510
 Val His Gly Leu Glu Gly Leu Arg Val Val Asp Ala Ser Ile Met Pro
 515 520 525
 Gln Ile Ile Thr Gly Asn Leu Asn Ala Thr Thr Ile Met Ile Gly Glu
 530 535 540
 Lys Ile Ala Asp Ala Ile Arg Gly Arg Glu Pro Leu Ala Lys Ser Thr
 545 550 555 560
 Ala Ala Tyr Tyr Val Ala Asn Gly Ala Pro Val Arg Arg
 565 570

<210> 8216

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 8216

Ser Thr Phe Glu Val Val Met Lys Lys Ile Ala Cys Leu Ser Ala Leu
 1 5 10 15
 Ala Ala Val Leu Ala Val Ser Ala Gly Thr Ala Val Ala Ala Thr Ser
 20 25 30
 Thr Val Thr Gly Gly Tyr Ala Gln Ser Asp Met Gln Gly Val Met Asn
 35 40 45
 Lys Thr Asn Gly Phe Asn Leu Lys Tyr Arg Tyr Glu Gln Asp Asn Asn
 50 55 60
 Pro Leu Gly Val Ile Gly Ser Phe Thr Tyr Thr Glu Lys Asp Arg Thr
 65 70 75 80
 Glu Asn Gly Ser Tyr Asn Lys Gly Gln Tyr Tyr Gly Ile Thr Ala Gly
 85 90 95
 Pro Ala Tyr Arg Leu Asn Asp Trp Ala Ser Ile Tyr Gly Val Val Gly
 100 105 110
 Val Gly Tyr Gly Lys Phe Gln Gln Thr Glu Asn Gln Gly Leu Asn Arg
 115 120 125
 Thr Ala Ser Asn Ser Asp Tyr Gly Phe Ser Tyr Gly Ala Gly Met Gln
 130 135 140
 Phe
 145

<210> 8217

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 8217

Ala Asp Pro Ile Leu Asn Leu Met Glu Ser Thr Met Leu Asn Gln Leu
 1 5 10 15
 Glu Ser Leu Thr Glu Arg Val Gly Gly Ser Asn Thr Leu Val Asp Arg
 20 25 30
 Trp Leu His Val Arg Lys His Leu Leu Val Ala Tyr Tyr Asn Leu Val
 35 40 45
 Gly Leu Lys Pro Gly Lys Glu Ser Phe Met Arg Leu Asn Glu Lys Ala
 50 55 60
 Leu Asp Asp Phe Cys Gln Ser Leu Val Asp Tyr Leu Ser Asp Gly His
 65 70 75 80
 Phe Asn Leu Tyr Glu Arg Ile Ile Arg Glu Met Glu Gly Thr Thr Pro
 85 90 95
 Tyr Leu Ala Ala Ser Lys Leu Cys Pro Leu Leu Glu Ala Asn Thr Gln
 100 105 110
 Arg Ile Met Asp Tyr Tyr Asp Ser Ala Leu Glu Asn Ala Ile Asp His
 115 120 125
 Asp Asn Tyr Leu Glu Phe Gln Gln Ala Leu Ser Asp Leu Gly Glu Ala
 130 135 140
 Leu Glu Glu Arg Phe Thr Leu Glu Asp Lys Leu Ile Ala Leu Val Leu
 145 150 155 160
 Asp Asn Asn Leu Asn Ile Ser Thr Ser Asp Asn Val Ala Arg Pro Ala
 165 170 175

<210> 8218

<211> 633

<212> PRT

<213> Enterobacter cloacae

<400> 8218

Ala Met Ser Thr Ala Lys Leu Thr Arg Arg Glu Gln Arg Glu His Ala
 1 5 10 15
 Gln Arg Phe Ile Asp Thr Leu Glu Gly Thr Ala Phe Pro Asn Ser Lys
 20 25 30
 Arg Ile Tyr Ile Ser Gly Ser Gln Ala Asp Ile Arg Val Pro Met Arg
 35 40 45
 Glu Ile Gln Leu Ser Pro Thr Leu Ile Gly Gly Ser Lys Asp Asn Pro
 50 55 60
 Gln Phe Glu Asp Asn Glu Ala Val Pro Val Tyr Asp Thr Ser Gly Pro
 65 70 75 80
 Tyr Gly Asp Pro Asp Val Ala Ile Asn Val Gln Gln Gly Leu Ala Lys
 85 90 95
 Leu Arg Gln Pro Trp Ile Glu Ala Arg Asn Asp Cys Glu Glu Leu Ser
 100 105 110
 Val Arg Ser Ser Ala Tyr Thr Lys Glu Arg Leu Ala Asp Asp Gly Leu
 115 120 125
 Asp Ala Leu Arg Phe Thr Gly Leu Leu Thr Pro Lys Arg Ala Lys Ala
 130 135 140
 Gly Lys Cys Val Thr Gln Leu His Tyr Ala Arg Gln Gly Ile Val Thr
 145 150 155 160
 Pro Glu Met Glu Phe Ile Ala Ile Arg Glu Asn Met Gly Arg Glu Arg
 165 170 175
 Ile Arg Ser Glu Val Leu Arg His Gln His Pro Gly Glu Gly Phe Gly
 180 185 190
 Ala Arg Leu Pro Glu Asn Ile Thr Pro Glu Phe Val Arg Asp Glu Val
 195 200 205
 Ala Ala Gly Arg Ala Ile Ile Pro Ala Asn Ile Asn His Pro Glu Ser
 210 215 220
 Glu Pro Met Ile Ile Gly Arg Asn Phe Leu Val Lys Val Asn Ala Asn
 225 230 235 240
 Ile Gly Asn Ser Ala Val Thr Ser Ser Ile Glu Glu Glu Val Glu Lys
 245 250 255
 Leu Val Trp Ser Thr Arg Trp Gly Ala Asp Thr Val Met Asp Leu Ser
 260 265 270
 Thr Gly Arg Tyr Ile His Glu Thr Arg Glu Trp Ile Leu Arg Asn Ser
 275 280 285
 Pro Val Pro Ile Gly Thr Val Pro Ile Tyr Gln Ala Leu Glu Lys Val
 290 295 300
 Asn Gly Ile Ala Glu Asn Leu Thr Trp Glu Ala Phe Arg Asp Thr Leu
 305 310 315 320
 Leu Glu Gln Ala Glu Gln Gly Val Asp Tyr Phe Thr Ile His Ala Gly
 325 330 335
 Val Leu Leu Arg Tyr Val Pro Met Thr Ala Lys Arg Leu Thr Gly Ile
 340 345 350
 Val Ser Arg Gly Gly Ser Ile Met Ala Lys Trp Cys Leu Ser His His
 355 360 365
 Gln Glu Asn Phe Leu Tyr Glu His Phe Arg Glu Ile Cys Glu Ile Cys
 370 375 380
 Ala Ala Tyr Asp Val Ser Leu Ser Leu Gly Asp Gly Leu Arg Pro Gly
 385 390 395 400
 Ser Ile Arg Asp Ala Asn Asp Glu Ala Gln Phe Ala Glu Leu His Thr
 405 410 415
 Leu Gly Glu Leu Thr Lys Ile Ala Trp Glu Tyr Asp Val Gln Val Met
 420 425 430
 Ile Glu Gly Pro Gly His Val Pro Met Gln Met Ile Arg Arg Asn Met
 435 440 445
 Thr Glu Glu Leu Glu His Cys His Glu Ala Pro Phe Tyr Thr Leu Gly
 450 455 460
 Pro Leu Thr Thr Asp Ile Ala Pro Gly Tyr Asp His Phe Thr Ser Gly
 465 470 475 480
 Ile Gly Ala Ala Met Ile Gly Trp Phe Gly Cys Ala Met Leu Cys Tyr

485 490 495
 Val Thr Pro Lys Glu His Leu Gly Leu Pro Asn Lys Glu Asp Val Lys
 500 505 510
 Gln Gly Leu Ile Thr Tyr Lys Ile Ala Ala His Ala Ala Asp Leu Ala
 515 520 525
 Lys Gly His Pro Gly Ala Gln Ile Arg Asp Asn Ala Met Ser Lys Ala
 530 535 540
 Arg Phe Glu Phe Arg Trp Glu Asp Gln Phe Asn Leu Ala Leu Asp Pro
 545 550 555 560
 Phe Thr Ala Arg Ala Tyr His Asp Glu Thr Leu Pro Gln Glu Ser Gly
 565 570 575
 Lys Val Ala His Phe Cys Ser Met Cys Gly Pro Lys Phe Cys Ser Met
 580 585 590
 Lys Ile Ser Gln Glu Val Arg Asp Tyr Ala Ala Ala Gln Thr Ile Glu
 595 600 605
 Val Gly Met Ala Asp Met Ser Glu Thr Phe Arg Ala Lys Gly Gly Glu
 610 615 620
 Ile Tyr Leu Lys Lys Glu Glu Ala
 625 630

<210> 8219

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 8219

Arg Ser Trp Arg Pro Thr Leu Ser Ala Leu Pro Ile Thr Pro Pro Leu
 1 5 10 15
 Pro Ser Ala Gly Ser Ala Leu Asn Ala Arg Pro Pro Cys Trp Lys Pro
 20 25 30
 Ala Ser Ala Val Ser Pro Ser Ser Ala Leu Ser Pro Arg Pro Gln Thr
 35 40 45
 Gly Arg Pro Pro Pro His Gly Phe Tyr Asn Trp Gln Glu Ala Met
 50 55 60
 Lys Asp Arg Asp Phe Met Arg Tyr Ser Arg Gln Ile Leu Leu Glu Asp
 65 70 75 80
 Ile Ala Ile Asp Gly Gln Gln Lys Leu Leu Ala Ser Arg Val Leu Ile
 85 90 95
 Val Gly Leu Gly Gly Leu Gly Ala Pro Ala Ala Leu Tyr Leu Ala Gly
 100 105 110
 Ala Gly Val Gly Thr Leu Val Leu Ala Asp Asp Asp Glu Val His Leu
 115 120 125
 Ser Asn Leu Gln Arg Gln Ile Leu Phe Thr Thr Glu Asp Val Asn Gln
 130 135 140
 Pro Lys Ala His Val Thr Arg Gln Arg Leu Asn Gln Leu Asn Pro Asp
 145 150 155 160
 Ile Glu Leu Val Ala Leu Gln Thr Arg Leu Ser Gly Glu Asp Leu Gln
 165 170 175
 Arg Glu Val Ala Leu Ala Asp Val Val Leu Asp Cys Thr Asp Asn Met
 180 185 190
 Ala Thr Arg Gln Ala Ile Asn Ala Val Cys Val Ala Gln Asn Thr Pro
 195 200 205
 Leu Ile Thr Ala Ser Ala Val Gly Phe Gly Gly Gln Ile Met Val Leu
 210 215 220
 Thr Pro Pro Trp Ala Gln Gly Cys Tyr Arg Cys Leu Trp Pro Asp Glu
 225 230 235 240
 Ala Glu Pro Glu Arg Asn Cys Arg Thr Ala Gly Ile Leu Gly Pro Val
 245 250 255
 Val Gly Val Met Gly Thr Leu Gln Ala Leu Glu Ala Ile Lys Leu Leu
 260 265 270
 Ser Gly Met Glu Thr Glu Arg Asn Thr Leu Arg Leu Phe Asp Ala Arg

275 280 285
 Ser Ser Gly Trp Arg His Leu Val Leu Asn Arg Ala Ser His Cys Pro
 290 295 300
 Val Cys Gly Gly Arg Asn Ala His Ser Val
 305 310 315

<210> 8220
 <211> 119
 <212> PRT
 <213> Enterobacter cloacae

<400> 8220
 Cys Arg Thr Gly Lys Ser Ala Gln Thr Ser Gly Val Ile Met Glu Asp
 1 5 10 15
 Leu Glu Thr Thr Ile Met Glu Leu Leu Val Asn Ala Gly Ala Ala Arg
 20 25 30
 Ser Ala Ala Leu Thr Ala Leu Gln Met Ala Arg Lys Gly Asp Phe Asp
 35 40 45
 Glu Ala Glu Lys Ala Met Glu Glu Ser Arg Glu Tyr Val Lys His Ala
 50 55 60
 His Thr Ile Gln Thr Gln Leu Ile Gly Leu Asp Glu Gly Thr Gly Lys
 65 70 75 80
 Leu Pro Val Asn Leu Ile Thr Val His Ser Gln Asp His Leu Met Asn
 85 90 95
 Ala Met Val Ile Gln Asp Leu Ala Gly Asp Met Ile Glu Leu Tyr Arg
 100 105 110
 Arg Ile Pro Leu Val Asn
 115

<210> 8221
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 8221
 Thr Ala Pro Ala Thr Ala Arg Tyr Ala Glu Ala Ala Met Arg Ile Leu
 1 5 10 15
 Phe Asn Asp Glu Pro Met Thr Cys Asp Asp Asp Leu Thr Val Ala Ala
 20 25 30
 Leu Leu Asp Thr Leu Arg Gln Leu Lys Pro Gly Thr Ala Leu Ala Leu
 35 40 45
 Asn Gln Gln Ile Leu Pro Arg Glu Arg Trp Glu His Gln Gln Val Asn
 50 55 60
 Glu Gly Asp Gln Ile Leu Leu Phe Gln Val Ile Ala Gly Gly
 65 70 75

<210> 8222
 <211> 600
 <212> PRT
 <213> Enterobacter cloacae

<400> 8222
 Glu Arg Gln Pro Ala Gly Asp Thr Gly Asp Glu Ala Arg Gly Phe Ala
 1 5 10 15
 Ser Ala Gln Arg Cys His Thr Cys Ala Val Thr Gly Gly Arg Arg Asp
 20 25 30
 Ala Leu Thr Glu Tyr Leu Arg Cys Glu Asn Gly Arg Gly Ser Asn Phe
 35 40 45
 Arg Cys Ala Thr Gly Ala Gly Ser Ala Arg His Pro Leu Ala Glu Ala
 50 55 60
 Gly Asn Ser Ser Gly Arg Pro Leu Ala Val Ala Arg Ser Asp Arg Asn

[illegible]

Glu Gln Phe Ala Pro His Asp Gly Arg Arg Pro Glu Ala Val Ala Glu
 565 570 575
 Ala Leu Thr Ala Gln Gly Leu Gln Pro Val Trp Lys Asp Trp Asp Ser
 580 585 590
 Trp Leu Gly Arg Ala Ser His
 595 600

<210> 8223

<211> 552

<212> PRT

<213> Enterobacter cloacae

<400> 8223

Ile Ile Ser Ser Val Ile Ala Phe Cys Ile Ile Tyr Tyr Gln Gln Pro
 1 5 10 15
 Asp Ser Asp Tyr Ala Glu Gly Ile Asp Arg Arg Asn Ala Ser Thr Ile
 20 25 30
 Trp Ile Asp Val Gln Leu Met Ala Leu His Ser Lys Lys Leu Ser Phe
 35 40 45
 Thr Arg Pro Ile Met Val Ser Phe Ala Gly Ile Leu Ser Phe Ala
 50 55 60
 Leu Ile Ala Ile Leu Val Ile Leu Ser Gln Arg Lys Asp Phe Leu Glu
 65 70 75 80
 Asp Tyr His Lys Ile Asn Gly Asn Phe Thr His Asn Leu Ala Val Asn
 85 90 95
 Tyr Thr Glu Ser Ile Leu Arg Glu Asn Asp Tyr Ile Leu Gly Arg Ala
 100 105 110
 Ala Met Tyr Phe Ala Arg Asn Asp Arg Val Asn Gln Thr Ile Asn Ile
 115 120 125
 Asp Pro Thr His Gly Leu Gln Met Leu Met His Leu Gln Asn Leu Met
 130 135 140
 Pro Thr Val Ser Ser Ile Ser Leu Ala Asp Thr Val Gly Arg His Leu
 145 150 155 160
 Arg Ala Pro Glu Val Leu Pro Thr Glu Lys Gly Lys Ser Phe Asp Ala
 165 170 175
 Arg Thr Arg Pro Trp Phe Ile Gly Gln Ala Glu Ala Ser Asn Phe Pro
 180 185 190
 His Tyr Thr Arg Pro Tyr Leu Asp Tyr Phe Thr Gln His Pro Thr Val
 195 200 205
 Thr Leu Tyr Lys Pro Val Ile Ser Pro Glu Gly Arg Leu Lys Gly Thr
 210 215 220
 Leu Ala Phe His Leu Asp Leu Thr Ser Met Gly Tyr Thr Leu Arg Gln
 225 230 235 240
 Met Val Ala Pro Val Gln Gly Glu Phe Phe Val Val Glu Arg Asp Gly
 245 250 255
 Ala Val Val Leu His Pro Asp Tnr Gly Ala Leu Phe Lys Gln Tyr Val
 260 265 270
 Ser Glu Ala Leu Met Asp Lys Met Thr Ser Gly Glu Gly His Leu Phe
 275 280 285
 Asp Pro Lys Ser Lys Thr Trp Tyr Tyr Tyr Tyr Ser Phe Thr Asn Pro
 290 295 300
 Asp Trp Phe Val Ile Tyr Arg Val Ser Asp Ala Thr Leu Thr Val Ile
 305 310 315 320
 Thr Arg His Glu Thr Thr Val Val Gly Trp Gly Phe Ala Leu Ala Ala
 325 330 335
 Ile Ile Ile Ile Leu Phe Gly Leu Tyr Leu Arg His Ala Ser Arg Ser
 340 345 350
 Val Leu Met Asn Ile Ile Asn Ala Ile Lys Thr Gly Asp Val Asn Gln
 355 360 365
 Ala Pro Arg Leu Glu Ala Met Leu Ser His Thr Ile Arg Thr Asn Lys
 370 375 380

Glu Arg Glu Leu Ala Tyr Val Arg Gln Ala Thr His Asp Ala Leu Thr
 385 390 395
 Gly Cys Lys Asn Arg Arg Ala Phe Asp Asn Asp Val Asp Glu Leu Leu
 405 410 415
 Thr Ala His Gln Pro Phe Val Leu Ala Leu Val Asp Ile Asp Asn Phe
 420 425 430
 Lys Ser Ile Asn Asp Thr Trp Gly His Leu Ser Gly Asp Ile Val Leu
 435 440 445
 Arg Asn Val Ala Arg Glu Gly Ile Gln Ile Met Gln Pro His His Val
 450 455 460
 Ser Val Tyr Arg Tyr Gly Gly Glu Glu Phe Gly Val Ile Phe Pro Ala
 465 470 475 480
 Glu Leu Met Asn Ser Ala His Ala Leu Leu Glu Ala Trp Arg Thr Ala
 485 490 495
 Val Glu Lys Arg Thr Trp Arg Glu Glu Asn Leu Arg Val Thr Phe Ser
 500 505 510
 Ala Gly Thr Gly Glu Trp His Phe Glu Pro Leu Glu Gln Phe Ile Gly
 515 520 525
 Ser Val Asp Glu Ala Leu Tyr Thr Ala Lys Gln Gln Gly Lys Asn Arg
 530 535 540
 Ile Val Ser Thr Ala Ser Arg
 545 550

<210> 8224

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 8224

Leu Ser Ile Asn Thr Cys Arg Ser Arg Leu Thr Met Lys Asn Ile Val
 1 5 10 15
 Leu Cys Cys Ala Ala Gly Met Ser Thr Ser Met Leu Val Gln Arg Met
 20 25 30
 Lys Asp Ala Ala Gln Lys Lys Gly Val Glu Val Thr Ile Lys Ala Val
 35 40 45
 Pro Val Ala Glu Phe Lys Asp Asn Ile Ala Thr Ala Asp Ile Val Leu
 50 55 60
 Leu Gly Pro Gln Val Lys Tyr Glu Gln Ala Lys Leu Gln Ala Gln Ala
 65 70 75 80
 Asp Pro Leu Gly Lys Lys Val Ala Val Ile Asp Met Met Asp Tyr Gly
 85 90 95
 Met Met Lys Gly Asp Ala Val Leu Glu Lys Ala Leu Lys Leu Leu Glu
 100 105 110
 Ser

<210> 8225

<211> 578

<212> PRT

<213> Enterobacter cloacae

<400> 8225

Thr Leu Ile Ser Thr Pro Gly Glu Asn Val Phe Val Lys Met Leu Ala
 1 5 10 15
 Leu Tyr Lys Asp Ala Ser Ser Gly Val Leu Asp Glu Phe Phe Thr Gly
 20 25 30
 Lys Ile His Leu Thr Leu Ser Val Ile Val Lys Ser Arg Gly Phe Thr
 35 40 45
 Met Gln Gln Arg Arg Pro Val Arg Arg Ala Leu Leu Ser Val Ser Asp
 50 55 60
 Lys Ala Gly Ile Val Glu Phe Ala Gln Ala Leu Ser Ala Arg Gly Val

65					70					75					80
Glu	Leu	Leu	Ser	Thr	Gly	Gly	Thr	Ala	Arg	Leu	Leu	Ala	Glu	Lys	Gly
				85					90					95	
Leu	Pro	Val	Thr	Glu	Val	Ser	Asp	Tyr	Thr	Gly	Phe	Pro	Glu	Met	Met
				100				105					110		
Asp	Gly	Arg	Val	Lys	Thr	Leu	His	Pro	Lys	Val	His	Gly	Gly	Ile	Leu
				115			120				125				
Gly	Arg	Arg	Gly	Gln	Asp	Asp	Ala	Ile	Met	Glu	Gln	His	Asp	Ile	Ala
				130			135				140				
Pro	Ile	Asp	Met	Val	Val	Val	Asn	Leu	Tyr	Pro	Phe	Ala	Gln	Thr	Val
				145			150			155					160
Ala	Arg	Glu	Gly	Cys	Ser	Leu	Glu	Asp	Ala	Val	Glu	Asn	Ile	Asp	Ile
				165				170						175	
Gly	Gly	Pro	Thr	Met	Val	Arg	Ser	Ala	Ala	Lys	Asn	His	Lys	Asp	Val
				180				185					190		
Ala	Ile	Val	Val	Lys	Ser	Ser	Asp	Tyr	Asn	Ala	Ile	Ile	Asn	Glu	Met
				195			200						205		
Asp	Ala	Asn	Glu	Arg	Ser	Leu	Thr	Leu	Glu	Thr	Arg	Phe	Asp	Leu	Ala
				210			215				220				
Ile	Lys	Ala	Phe	Glu	His	Thr	Ala	Ala	Tyr	Asp	Ser	Met	Ile	Ala	Asn
				225			230			235					240
Tyr	Phe	Gly	Ser	Leu	Val	Pro	Ala	Tyr	His	Gly	Glu	Ser	Lys	Asp	Pro
				245				250						255	
Ser	Gly	Arg	Phe	Pro	Arg	Thr	Leu	Asn	Leu	Asn	Phe	Ile	Lys	Lys	Gln
				260			265						270		
Asp	Met	Arg	Tyr	Gly	Glu	Asn	Ser	His	Gln	Gln	Ala	Ala	Phe	Tyr	Ile
				275			280						285		
Glu	Glu	Glu	Val	Lys	Glu	Ala	Ser	Val	Ala	Thr	Ala	Gln	Gln	Val	Gln
				290			295				300				
Gly	Lys	Ala	Leu	Ser	Tyr	Asn	Asn	Ile	Ala	Asp	Thr	Asp	Ala	Ala	Leu
				305			310			315					320
Glu	Cys	Val	Lys	Glu	Phe	Ser	Glu	Pro	Ala	Cys	Val	Ile	Val	Lys	His
				325				330						335	
Ala	Asn	Pro	Cys	Gly	Val	Ala	Val	Ser	Thr	Ser	Ile	Leu	Asp	Ala	Tyr
				340				345				350			
Asp	Arg	Ala	Tyr	Lys	Thr	Asp	Pro	Thr	Ser	Ala	Phe	Gly	Gly	Ile	Ile
				355			360					365			
Ala	Phe	Asn	Arg	Glu	Leu	Asp	Ala	Glu	Thr	Ala	Gln	Ala	Ile	Ile	Ser
				370			375				380				
Arg	Gln	Phe	Val	Glu	Val	Ile	Ile	Ala	Pro	Ser	Ala	Ser	Glu	Glu	Ala
				385			390			395					400
Leu	Lys	Ile	Thr	Ala	Ala	Lys	Gln	Asn	Val	Arg	Val	Leu	Val	Cys	Gly
				405				410						415	
Gln	Trp	Ala	Glu	Arg	Val	Pro	Gly	Leu	Asp	Phe	Lys	Arg	Val	Asn	Gly
				420				425					430		
Gly	Leu	Leu	Val	Gln	Asp	Arg	Asp	Leu	Gly	Met	Val	Thr	Glu	Ala	Asp
				435			440					445			
Leu	Arg	Val	Val	Thr	Lys	Arg	Gln	Pro	Thr	Glu	Gln	Glu	Leu	Arg	Asp
				450			455				460				
Ala	Leu	Phe	Cys	Trp	Lys	Val	Ala	Lys	Phe	Val	Lys	Ser	Asn	Ala	Ile
				465			470			475					480
Val	Tyr	Ala	Lys	Glu	Asn	Met	Thr	Ile	Gly	Ile	Gly	Ala	Gly	Gln	Met
				485				490						495	
Ser	Arg	Val	Tyr	Ser	Ala	Lys	Ile	Ala	Gly	Ile	Lys	Ala	Gly	Asp	Glu
				500				505					510		
Gly	Leu	Glu	Val	Lys	Gly	Ser	Ala	Met	Ala	Ser	Asp	Ala	Phe	Phe	Pro
				515			520					525			
Phe	Arg	Asp	Gly	Ile	Asp	Ala	Ala	Ala	Val	Gly	Ile	Thr	Cys	Val	
				530			535				540				
Ile	Gln	Pro	Gly	Gly	Ser	Ile	Arg	Asp	Asp	Glu	Val	Ile	Ala	Ala	Ala
				545			550			555					560

Asp Glu His Gly Ile Ala Met Ile Phe Thr Asp Met Arg His Phe Arg
 565 570 575
 His

<210> 8226

<211> 436

<212> PRT

<213> *Enterobacter cloacae*

<400> 8226

Phe Pro Glu Gln Lys Met Lys Val Leu Val Ile Gly Asn Gly Gly Arg
 1 5 10 15
 Glu His Ala Leu Ala Trp Lys Ala Ala Gln Ser Pro Gln Val Glu Thr
 20 25 30
 Val Phe Val Ala Pro Gly Asn Ala Gly Thr Ala Leu Glu Pro Ala Leu
 35 40 45
 Gln Asn Val Ala Ile Gly Val Thr Asp Ile Pro Ala Leu Leu Ser Phe
 50 55 60
 Ala Gln Thr Glu Asn Ile Asp Leu Thr Ile Val Gly Pro Glu Ala Pro
 65 70 75 80
 Leu Val Ile Gly Val Val Asp Ala Phe Arg Ala Ala Gly Leu Lys Ile
 85 90 95
 Phe Gly Pro Thr Glu Gly Ala Ala Gln Leu Glu Gly Ser Lys Ala Phe
 100 105 110
 Thr Lys Asp Phe Leu Ala Arg His Asn Ile Pro Thr Ala Glu Tyr Gln
 115 120 125
 Asn Phe Thr Glu Val Glu Pro Ala Leu Ala Trp Leu Arg Glu Lys Gly
 130 135 140
 Ala Pro Ile Val Ile Lys Ala Asp Gly Leu Ala Ala Gly Lys Gly Val
 145 150 155 160
 Ile Val Ala Met Thr Leu Glu Glu Ala Glu Ala Ala Val Gln Asp Met
 165 170 175
 Leu Ala Gly Asn Ala Phe Gly Asp Ala Gly His Arg Ile Val Ile Glu
 180 185 190
 Glu Phe Leu Asp Gly Glu Glu Ala Ser Phe Ile Val Met Val Asp Gly
 195 200 205
 Glu His Val Leu Pro Met Ala Thr Ser Gln Asp His Lys Arg Val Gly
 210 215 220
 Asn Gly Asp Thr Gly Pro Asn Thr Gly Gly Met Gly Ala Tyr Ser Pro
 225 230 235 240
 Ala Pro Val Val Thr Asp Glu Val His Gln Arg Thr Met Asp Arg Ile
 245 250 255
 Ile Trp Pro Thr Val Lys Gly Met Ala Ala Glu Gly Asn Thr Tyr Thr
 260 265 270
 Gly Phe Leu Tyr Ala Gly Leu Met Ile Asp Lys Gln Gly Asn Pro Lys
 275 280 285
 Val Ile Glu Phe Asn Cys Arg Phe Gly Asp Pro Glu Thr Gln Pro Ile
 290 295 300
 Met Leu Arg Met Lys Ser Asp Leu Val Asp Leu Cys Leu Ala Ala Cys
 305 310 315 320
 Glu Gly Lys Leu Asp Glu Lys Thr Ser Glu Trp Asp Glu Arg Ala Ser
 325 330 335
 Leu Gly Val Val Ile Ala Ala Gly Gly Tyr Pro Gly Ser Tyr Asn Thr
 340 345 350
 Gly Asp Glu Ile His Gly Leu Pro Leu Glu Glu Ile Asp Gly Ala Lys
 355 360 365
 Val Phe His Ala Gly Thr Lys Leu Ala Asp Asp Asp Arg Val Leu Thr
 370 375 380
 Asn Gly Gly Arg Val Leu Cys Ala Thr Ala Leu Gly Gln Thr Val Ala
 385 390 395 400

Glu Ala Gln Lys Arg Ala Tyr Ala Leu Met Ala Asp Ile His Trp Asn
 405 410 415
 Gly Ser Phe Ser Arg Gln Asp Ile Gly Tyr Arg Ala Ile Ala Arg Glu
 420 425 430
 Gln Gly Glu
 435

<210> 8227

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 8227

Ser Arg His Gly Gly His Val Gly Asn Leu Pro Arg Glu Arg Arg Arg
 1 5 10 15
 Asn Leu Pro Gln Lys Arg Gly Gly Ile Met Tyr Gln Pro Asp Phe Pro
 20 25 30
 Pro Val Pro Phe Arg Leu Gly Leu Tyr Pro Val Val Asp Ser Val Ala
 35 40 45
 Trp Ile Ala Arg Leu Leu Glu Ala Gly Val Arg Thr Ile Gln Leu Arg
 50 55 60
 Ile Lys Asp Lys Arg Asp Glu Glu Val Glu Ala Asp Val Ile Ala Ala
 65 70 75 80
 Ile Ala Leu Gly Arg Arg Tyr His Ala Arg Leu Phe Ile Asn Asp Tyr
 85 90 95
 Trp Arg Leu Ala Val Lys His Gln Ala Tyr Gly Val His Leu Gly Gln
 100 105 110
 Glu Asp Leu Glu Thr Thr Asp Leu Asn Ala Ile Arg Asp Val Gly Leu
 115 120 125
 Arg Leu Gly Val Ser Thr His Asp Asp Met Glu Ile Asp Val Ala Leu
 130 135 140
 Ala Ala Arg Pro Ser Tyr Ile Ala Leu Gly His Val Phe Pro Thr Gln
 145 150 155 160
 Thr Lys Gln Met Pro Ser Ala Pro Gln Gly Leu Thr Gln Leu Ala Ala
 165 170 175
 His Val Lys Arg Leu Ala Asp Tyr Pro Thr Val Ala Ile Gly Gly Ile
 180 185 190
 Ser Leu Glu Arg Ala Pro Ala Val Leu Glu Thr Gly Val Gly Ser Ile
 195 200 205
 Ala Val Val Ser Ala Ile Thr Gln Ala Ala Asp Trp Gln Ala Ala Thr
 210 215 220
 Ala Arg Leu Leu Gln Leu Ala Gly Ala Gly Asp Glu Arg Ser
 225 230 235

<210> 8228

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 8228

Ser Arg Glu Arg Arg Trp Arg Ser Ile Asn Arg Ser Cys Arg Ala Ser
 1 5 10 15
 Gly Gly Asn Ile Ser Arg Ser Met Lys Ala Thr Arg Ser Cys Cys Phe
 20 25 30
 Arg Leu Ser Gln Gly Ala Glu Met Leu Arg Ile Ala Asp Lys Val Phe
 35 40 45
 Asp Ser His Leu Phe Thr Gly Thr Gly Lys Phe Ala Ser Pro Gln Leu
 50 55 60
 Met Val Asp Ala Ile Arg Glu Ser Gly Ser Gln Leu Val Thr Leu Ala
 65 70 75 80
 Met Lys Arg Val Asp Leu Arg Gln His Asn Asp Ala Ile Leu Ala Pro

85 90 95
 Leu Arg Glu Ala Gly Val Thr Leu Leu Pro Asn Thr Ser Gly Ala Lys
 100 105 110
 Thr Ala Glu Glu Ala Ile Phe Ala Ala Gln Leu Ala Arg Glu Ala Leu
 115 120 125
 Gly Thr Arg Trp Leu Lys Leu Glu Ile His Pro Asp Ala Arg Trp Leu
 130 135 140
 Leu Pro Asp Pro Ile Glu Thr Leu Lys Ala Ala Glu Lys Leu Val Gln
 145 150 155 160
 Gln Gly Phe Thr Val Leu Pro Tyr Cys Gly Ala Asp Pro Val Leu Cys
 165 170 175
 Lys Arg Leu Glu Glu Val Gly Cys Ala Ala Val Met Pro Leu Gly Ala
 180 185 190
 Pro Ile Gly Ser Asn Gln Gly Leu Glu Thr Arg Ala Met Leu Glu Ile
 195 200 205
 Ile Ile Glu Gln Ala Thr Val Pro Val Val Val Asp Ala Gly Ile Gly
 210 215 220
 Val Pro Ser His Ala Ala Gln Ala Leu Glu Met Gly Ala Asp Ala Val
 225 230 235 240
 Leu Val Asn Thr Ala Ile Ala Val Ala Asp Pro Val Met Met Ala
 245 250 255
 Arg Ala Phe Arg Leu Ala Val Glu Ser Gly Leu Leu Ala Arg Gln Ser
 260 265 270
 Gly Pro Gly Ser Arg Cys Val Gln Ala Gln Ala Thr Ser Pro Leu Thr
 275 280 285
 Asp Phe Leu Glu Ala Leu
 290 295

<210> 8229

<211> 1389

<212> PRT

<213> Enterobacter cloacae

<400> 8229

Ile Ala Met Lys Trp Phe Lys Arg Asp Ser Asn Arg Tyr Cys Gly Lys
 1 5 10 15
 Tyr Ser Ile Phe Arg Ser Thr Lys Trp Cys Cys Thr Asn Cys Pro Phe
 20 25 30
 Val Gly Gln Met Gly Arg Leu Val Ser Glu Leu Arg Asn Pro Met Val
 35 40 45
 Tyr Ser Tyr Thr Glu Lys Lys Arg Ile Arg Lys Asp Phe Gly Lys Arg
 50 55 60
 Pro Gln Val Leu Asp Ile Pro Tyr Leu Leu Ser Ile Gln Leu Asp Ser
 65 70 75 80
 Phe Gln Lys Phe Ile Glu Gln Asp Pro Glu Gly Gln Tyr Gly Leu Glu
 85 90 95
 Ala Ala Phe Arg Ser Val Phe Pro Ile Gln Ser Tyr Ser Gly Asn Ser
 100 105 110
 Glu Leu Gln Tyr Val Ser Tyr Arg Leu Gly Glu Pro Val Phe Asp Val
 115 120 125
 Gln Glu Cys Gln Ile Arg Gly Val Thr Tyr Ser Ala Pro Leu Arg Val
 130 135 140
 Lys Leu Arg Leu Val Ile Tyr Glu Arg Glu Ala Pro Glu Gly Thr Val
 145 150 155 160
 Lys Asp Ile Lys Glu Gln Glu Val Tyr Met Gly Glu Ile Pro Leu Met
 165 170 175
 Thr Asp Asn Gly Thr Phe Val Ile Asn Gly Thr Glu Arg Val Ile Val
 180 185 190
 Ser Gln Leu His Arg Ser Pro Gly Val Phe Phe Asp Ser Asp Lys Gly
 195 200 205
 Lys Thr His Ser Ser Gly Lys Val Leu Tyr Asn Ala Arg Ile Ile Pro

210	215	220
Tyr Arg Gly Ser Trp	Leu Asp Phe Glu Phe Asp	Pro Lys Asp Asn Leu
225	230	235
Phe Val Arg Ile Asp	Arg Arg Arg Lys Leu	Pro Ala Thr Ile Ile Leu
245	250	255
Arg Ala Leu Asn Tyr Thr Thr	Glu Gln Ile Leu Asp	Leu Phe Phe Glu
260	265	270
Lys Val Ile Phe Glu Ile Arg	Asp Asn Lys Leu Gln	Met Glu Leu Val
275	280	285
Pro Glu Arg Leu Arg Gly Glu Thr Ala	Ser Phe Asp Ile Glu Ala Asp	
290	295	300
Gly Lys Val Tyr Val Glu Lys Gly Arg Arg	Ile Thr Ala Arg His Ile	
305	310	315
Arg Gln Leu Glu Lys Asp Asp Ile Lys His	Ile Glu Val Pro Val Glu	
325	330	335
Tyr Ile Ala Gly Lys Val Ala Ala Lys	Asp Tyr Val Asp Glu Ser Thr	
340	345	350
Gly Glu Leu Ile Cys Pro Ala Asn Met	Glu Leu Ser Leu Asp Leu Leu	
355	360	365
Ala Lys Leu Ser Gln Ala Gly His Lys Arg	Ile Glu Thr Leu Phe Thr	
370	375	380
Asn Asp Leu Asp His Gly Pro Tyr Ile Ser	Glu Thr Val Arg Val Asp	
385	390	395
Pro Thr Asn Asp Arg Leu Ser Ala Leu Val	Glu Ile Tyr Arg Met Met	
405	410	415
Arg Pro Gly Glu Pro Pro Thr Arg Glu Ala	Ala Glu Ser Leu Phe Glu	
420	425	430
Asn Leu Phe Phe Ser Glu Asp Arg Tyr Asp	Leu Ser Ala Val Gly Arg	
435	440	445
Met Lys Phe Asn Arg Ser Leu Leu Arg Asp	Glu Ile Glu Gly Ser Gly	
450	455	460
Ile Leu Ser Lys Asp Asp Ile Ile Glu Val	Met Lys Lys Leu Ile Asp	
465	470	475
Ile Arg Asn Gly Lys Gly Glu Val Asp Asp	Ile Asp His Leu Gly Asn	
485	490	495
Arg Arg Ile Arg Ser Val Gly Glu Met Ala	Glu Asn Gln Phe Arg Val	
500	505	510
Gly Leu Val Arg Val Glu Arg Ala Val Lys	Glu Arg Leu Ser Leu Gly	
515	520	525
Asp Leu Asp Thr Leu Met Pro Gln Asp Met	Ile Asn Ala Lys Pro Ile	
530	535	540
Ser Ala Ala Val Lys Glu Phe Phe Gly Ser	Ser Gln Leu Ser Gln Phe	
545	550	555
Met Asp Gln Asn Asn Pro Leu Ser Glu Ile	Thr His Lys Arg Arg Ile	
565	570	575
Ser Ala Leu Gly Pro Gly Gly Leu Thr Arg	Glu Arg Ala Gly Phe Glu	
580	585	590
Val Arg Asp Val His Pro Thr His Tyr Gly	Arg Val Cys Pro Ile Glu	
595	600	605
Thr Pro Glu Gly Pro Asn Ile Gly Leu Ile	Asn Ser Leu Ser Val Tyr	
610	615	620
Ala Gln Thr Asn Glu Tyr Gly Phe Leu Glu	Thr Pro Tyr Arg Lys Val	
625	630	635
Thr Asp Gly Val Val Thr Asp Glu Ile His	Tyr Leu Ser Ala Ile Glu	
645	650	655
Glu Gly Asn Tyr Val Ile Ala Gln Ala Asn	Ser Asn Leu Asp Asp Glu	
660	665	670
Gly His Phe Val Glu Asp Leu Val Thr Cys	Arg Ser Lys Gly Glu Ser	
675	680	685
Ser Leu Phe Ser Arg Asp Gln Val Asp Tyr	Met Asp Val Ser Thr Gln	
690	695	700

Gln Val Val Ser Val Gly Ala Ser Leu Ile Pro Phe Leu Glu His Asp
 705 710 715 720
 Asp Ala Asn Arg Ala Leu Met Gly Ala Asn Met Gln Arg Gln Ala Val
 725 730 735
 Pro Thr Leu Arg Ala Asp Lys Pro Leu Val Gly Thr Gly Met Glu Arg
 740 745 750
 Ala Val Ala Val Asp Ser Gly Val Thr Ala Val Ala Lys Arg Gly Gly
 755 760 765
 Thr Val Gln Tyr Val Asp Ala Ser Arg Ile Val Ile Lys Val Asn Glu
 770 775 780
 Asp Glu Met Tyr Pro Gly Glu Ala Gly Ile Asp Ile Tyr Asn Leu Thr
 785 790 795 800
 Lys Tyr Thr Arg Ser Asn Gln Asn Thr Cys Ile Asn Gln Met Pro Cys
 805 810 815
 Val Ser Leu Gly Glu Pro Val Glu Arg Gly Asp Val Leu Ala Asp Gly
 820 825 830
 Pro Ser Thr Asp Leu Gly Glu Leu Ala Leu Gly Gln Asn Met Arg Val
 835 840 845
 Ala Phe Met Pro Trp Asn Gly Tyr Asn Phe Glu Asp Ser Ile Leu Val
 850 855 860
 Ser Glu Arg Val Val Gln Glu Asp Arg Phe Thr Thr Ile His Ile Gln
 865 870 875 880
 Glu Leu Ala Cys Val Ser Arg Asp Thr Lys Leu Gly Pro Glu Glu Ile
 885 890 895
 Thr Ala Asp Ile Pro Asn Val Gly Glu Ala Ala Leu Ser Lys Leu Asp
 900 905 910
 Glu Ser Gly Ile Val Tyr Ile Gly Ala Glu Val Thr Gly Gly Asp Ile
 915 920 925
 Leu Val Gly Lys Val Thr Pro Lys Gly Glu Thr Gln Leu Thr Pro Glu
 930 935 940
 Glu Lys Leu Leu Arg Ala Ile Phe Gly Glu Lys Ala Ser Asp Val Lys
 945 950 955 960
 Asp Ser Ser Leu Arg Val Pro Asn Gly Val Ser Gly Thr Val Ile Asp
 965 970 975
 Val Gln Val Phe Thr Arg Asp Gly Val Glu Lys Asp Lys Arg Ala Leu
 980 985 990
 Glu Ile Glu Glu Met Gln Leu Lys Gln Ala Lys Lys Asp Leu Ser Glu
 995 1000 1005
 Glu Leu Gln Ile Leu Glu Ala Gly Leu Phe Ser Arg Ile Tyr Ala Val
 1010 1015 1020
 Leu Val Ala Gly Gly Val Glu Ala Glu Lys Leu Asp Lys Leu Pro Arg
 1025 1030 1035 1040
 Asp Arg Trp Leu Glu Leu Gly Leu Thr Asp Glu Glu Lys Gln Asn Gln
 1045 1050 1055
 Leu Glu Gln Leu Ala Glu Gln Tyr Asp Glu Leu Lys His Glu Phe Glu
 1060 1065 1070
 Lys Lys Leu Glu Ala Lys Arg Arg Lys Ile Thr Gln Gly Asp Asp Leu
 1075 1080 1085
 Ala Pro Gly Val Leu Lys Ile Val Lys Val Tyr Leu Ala Val Lys Arg
 1090 1095 1100
 Gln Ile Gln Pro Gly Asp Lys Met Ala Gly Arg His Gly Asn Lys Gly
 1105 1110 1115 1120
 Val Ile Ser Lys Ile Asn Pro Ile Glu Asp Met Pro His Asp Ala Asn
 1125 1130 1135
 Gly Thr Pro Val Asp Ile Val Leu Asn Pro Leu Gly Val Pro Ser Arg
 1140 1145 1150
 Met Asn Ile Gly Gln Ile Leu Glu Thr His Leu Gly Met Ala Ala Lys
 1155 1160 1165
 Gly Ile Gly Asp Lys Ile Asn Ala Met Leu Lys Gln Gln Gln Glu Val
 1170 1175 1180
 Ala Lys Leu Arg Glu Phe Ile Gln Arg Ala Tyr Asp Leu Gly Thr Asp

1185 1190 1195 1200
 Val Arg Gln Lys Val Asp Leu Asn Thr Phe Ser Asp Glu Glu Val Leu
 1205 1210 1215
 Arg Leu Ala Glu Asn Leu Arg Lys Gly Met Pro Ile Ala Thr Pro Val
 1220 1225 1230
 Phe Asp Gly Ala Lys Glu Ala Glu Ile Lys Glu Leu Leu Gln Leu Gly
 1235 1240 1245
 Gly Leu Pro Thr Ser Gly Gln Ile Thr Leu Phe Asp Gly Arg Thr Gly
 1250 1255 1260
 Glu Gln Phe Glu Arg Pro Val Thr Val Gly Tyr Met Tyr Met Leu Lys
 1265 1270 1275 1280
 Leu Asn His Leu Val Asp Asp Lys Met His Ala Arg Ser Thr Gly Ser
 1285 1290 1295
 Tyr Ser Leu Val Thr Gln Gln Pro Leu Gly Gly Lys Ala Gln Phe Gly
 1300 1305 1310
 Gly Gln Arg Phe Gly Glu Met Glu Val Trp Ala Leu Glu Ala Tyr Gly
 1315 1320 1325
 Ala Ala Tyr Thr Leu Gln Glu Met Leu Thr Val Lys Ser Asp Asp Val
 1330 1335 1340
 Asn Gly Arg Thr Lys Met Tyr Lys Asn Ile Val Asp Gly Asn His Gln
 1345 1350 1355 1360
 Met Glu Pro Gly Met Pro Glu Ser Phe Asn Val Leu Leu Lys Glu Ile
 1365 1370 1375
 Arg Ser Leu Gly Ile Asn Ile Glu Leu Glu Asp Glu
 1380 1385

<210> 8230

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 8230

Phe Ser Ile Arg Asp Ile Ile Met Leu Gln Asn Pro Ile His Leu Arg
 1 5 10 15
 Leu Glu Lys Leu Glu Ser Trp Gln His Val Thr Phe Met Ala Cys Leu
 20 25 30
 Cys Glu Arg Met Tyr Pro Asn Tyr Ala Ala Phe Cys Lys Gln Thr Ala
 35 40 45
 Phe Gly Glu Gly Gln Ile Tyr Arg Arg Ile Leu Asp Leu Ile Trp Glu
 50 55 60
 Thr Leu Thr Val Lys Asp Ala Lys Val Asn Phe Asp Ser Gln Leu Glu
 65 70 75 80
 Lys Leu Glu Glu Ala Ile Pro Ala Ala Asp Asp Phe Asp Leu Tyr Gly
 85 90 95
 Val Tyr Pro Ala Ile Asp Ala Cys Val Ala Leu Ser Glu Leu Ile His
 100 105 110
 Ser Arg Leu Ser Gly Glu Thr Leu Glu His Ala Ile Glu Val Ser Lys
 115 120 125
 Ala Ser Ile Thr Thr Val Ala Met Leu Glu Met Thr Gln Glu Gly Arg
 130 135 140
 Glu Met Thr Asp Glu Glu Leu Arg Ala Asn Pro Ala Val Glu Gln Glu
 145 150 155 160
 Trp Asp Ile Gln Trp Glu Ile Phe Arg Leu Leu Ala Glu Cys Glu Glu
 165 170 175
 Arg Asp Ile Glu Leu Ile Lys Gly Leu Arg Ala Asp Leu Arg Glu Ala
 180 185 190
 Gly Glu Ser Asn Ile Gly Ile Ile Phe Asn Gln
 195 200

<210> 8231

<211> 92

<212> PRT

<213> *Enterobacter cloacae*

<400> 8231

Leu Met Asn Lys Thr Gln Leu Ile Asp Val Ile Ala Asp Lys Ala Asp
 1 5 10 15
 Leu Ser Lys Val Gln Ala Lys Ala Ala Leu Glu Ser Thr Leu Ala Ala
 20 25 30
 Ile Thr Glu Ser Leu Lys Glu Gly Asp Ala Val Gln Leu Val Gly Phe
 35 40 45
 Gly Thr Phe Lys Val Asn His Arg Ala Glu Arg Thr Gly Arg Asn Pro
 50 55 60
 Gln Thr Gly Lys Glu Ile Lys Ile Ala Ala Asn Val Pro Ala Phe
 65 70 75 80
 Val Ser Gly Lys Ala Leu Lys Asp Ala Val Lys
 85 90

<210> 8232

<211> 1422

<212> PRT

<213> *Enterobacter cloacae*

<400> 8232

Arg Pro Thr Ala Glu Cys Ala Asn Ser Asp Gly Ser Lys Ser Val Lys
 1 5 10 15
 Asp Leu Leu Lys Phe Leu Lys Ala Gln Thr Lys Thr Glu Glu Phe Asp
 20 25 30
 Ala Ile Lys Ile Ala Leu Ala Ser Pro Asp Met Ile Arg Ser Trp Ser
 35 40 45
 Phe Gly Glu Val Lys Lys Pro Glu Thr Ile Asn Tyr Arg Thr Phe Lys
 50 55 60
 Pro Glu Arg Asp Gly Leu Phe Cys Ala Arg Ile Phe Gly Pro Val Lys
 65 70 75 80
 Asp Tyr Glu Cys Leu Cys Gly Lys Tyr Lys Arg Leu Lys His Arg Gly
 85 90 95
 Val Ile Cys Glu Lys Cys Gly Val Glu Val Thr Gln Thr Lys Val Arg
 100 105 110
 Arg Glu Arg Met Gly His Ile Glu Leu Ala Ser Pro Thr Ala His Ile
 115 120 125
 Trp Phe Leu Lys Ser Leu Pro Ser Arg Ile Gly Leu Leu Asp Met
 130 135 140
 Pro Leu Arg Asp Ile Glu Arg Val Leu Tyr Phe Glu Ser Tyr Val Val
 145 150 155 160
 Ile Glu Gly Gly Met Thr Asn Leu Glu Arg Asn Gln Ile Leu Thr Glu
 165 170 175
 Glu Gln Tyr Leu Asp Ala Leu Glu Glu Phe Gly Asp Glu Phe Asp Ala
 180 185 190
 Lys Met Gly Ala Glu Ala Ile Gln Ala Leu Leu Lys Ser Met Asp Leu
 195 200 205
 Glu Gln Glu Cys Glu Thr Leu Arg Glu Glu Leu Asn Glu Thr Asn Ser
 210 215 220
 Glu Thr Lys Arg Lys Lys Leu Thr Lys Arg Ile Lys Leu Leu Glu Ala
 225 230 235 240
 Phe Val Gln Ser Gly Asn Lys Pro Glu Trp Met Ile Leu Thr Val Leu
 245 250 255
 Pro Val Leu Pro Pro Asp Leu Arg Pro Glu Val Pro Leu Asp Gly Gly
 260 265 270
 Arg Phe Ala Thr Ser Asp Leu Asn Asp Leu Tyr Arg Arg Val Ile Asn
 275 280 285
 Arg Asn Asn Arg Leu Lys Arg Leu Leu Asp Leu Ala Pro Asp Ile
 290 295 300

Ile Val Arg Asn Glu Lys Arg Met Leu Gln Glu Ala Val Asp Ala Leu
 305 310 315 320
 Leu Asp Asn Gly Arg Arg Gly Arg Ala Ile Thr Gly Ser Asn Lys Arg
 325 330 335
 Pro Leu Lys Ser Leu Ala Asp Met Ile Lys Gly Lys Gln Gly Arg Phe
 340 345 350
 Arg Gln Asn Leu Leu Gly Lys Arg Val Asp Tyr Ser Gly Arg Ser Val
 355 360 365
 Ile Thr Val Gly Pro Tyr Leu Arg Leu His Gln Cys Gly Leu Pro Lys
 370 375 380
 Lys Met Ala Leu Glu Leu Phe Lys Pro Phe Ile Tyr Gly Lys Leu Glu
 385 390 395 400
 Leu Arg Gly Leu Ala Thr Thr Ile Lys Ala Ala Lys Lys Met Val Glu
 405 410 415
 Arg Glu Glu Ala Val Val Trp Asp Ile Leu Asp Glu Val Ile Arg Glu
 420 425 430
 His Pro Val Leu Leu Asn Arg Ala Pro Thr Leu His Arg Leu Gly Ile
 435 440 445
 Gln Ala Phe Glu Pro Val Leu Ile Glu Gly Lys Ala Ile Gln Leu His
 450 455 460
 Pro Leu Val Cys Ala Ala Tyr Asn Ala Asp Phe Asp Gly Asp Gln Met
 465 470 475 480
 Ala Val His Val Pro Leu Thr Leu Glu Ala Gln Leu Glu Ala Arg Ala
 485 490 495
 Leu Met Met Ser Thr Asn Asn Ile Leu Ser Pro Ala Asn Gly Glu Pro
 500 505 510
 Ile Ile Val Pro Ser Gln Asp Val Val Leu Gly Leu Tyr Thr Met Thr
 515 520 525
 Arg Asp Cys Val Asn Ala Lys Gly Glu Gly Met Val Leu Thr Gly Pro
 530 535 540
 Lys Glu Ala Glu Arg Ile Tyr Arg Ala Gly Leu Ala Ser Leu His Ala
 545 550 555 560
 Arg Val Lys Val Arg Ile Thr Glu Tyr Glu Lys Asp Glu Asn Gly Glu
 565 570 575
 Phe Val Ala His Thr Ser Leu Lys Asp Thr Thr Val Gly Arg Ala Ile
 580 585 590
 Leu Trp Met Ile Val Pro Lys Gly Leu Pro Phe Ser Ile Val Asn Gln
 595 600 605
 Ala Leu Gly Lys Lys Ala Ile Ser Lys Met Leu Asn Thr Cys Tyr Arg
 610 615 620
 Ile Leu Gly Leu Lys Pro Thr Val Ile Phe Ala Asp Gln Thr Met Tyr
 625 630 635 640
 Thr Gly Phe Ala Tyr Ala Ala Arg Ser Gly Ala Ser Val Gly Ile Asp
 645 650 655
 Asp Met Val Ile Pro Glu Lys Lys His Glu Ile Ile Ser Glu Ala Glu
 660 665 670
 Ala Glu Val Ala Glu Ile Gln Glu Gln Phe Gln Ser Gly Leu Val Thr
 675 680 685
 Ala Gly Glu Arg Tyr Asn Lys Val Ile Asp Ile Trp Ala Ala Ala Asn
 690 695 700
 Asp Arg Val Ser Lys Ala Met Met Asp Asn Leu Gln Thr Glu Thr Val
 705 710 715 720
 Ile Asn Arg Asp Gly Val Glu Glu Gln Gln Val Ser Phe Asn Ser Ile
 725 730 735
 Tyr Met Met Ala Asp Ser Gly Ala Arg Gly Ser Ala Ala Gln Ile Arg
 740 745 750
 Gln Leu Ala Gly Met Arg Gly Leu Met Ala Lys Pro Asp Gly Ser Ile
 755 760 765
 Ile Glu Thr Pro Ile Thr Ala Asn Phe Arg Glu Gly Leu Asn Val Leu
 770 775 780
 Gln Tyr Phe Ile Ser Thr His Gly Ala Arg Lys Gly Leu Ala Asp Thr

785					790					795					800
Ala	Leu	Lys	Thr	Ala	Asn	Ser	Gly	Tyr	Leu	Thr	Arg	Arg	Leu	Val	Asp
				805					810					815	
Val	Ala	Gln	Asp	Leu	Val	Val	Thr	Glu	Asp	Asp	Cys	Gly	Thr	Leu	Glu
			820					825					830		
Gly	Ile	Thr	Met	Thr	Pro	Val	Ile	Glu	Gly	Gly	Asp	Val	Lys	Glu	Pro
		835					840					845			
Leu	Arg	Asp	Arg	Val	Leu	Gly	Arg	Val	Thr	Ala	Glu	Asp	Ile	Leu	Lys
	850					855					860				
Pro	Gly	Thr	Ala	Asp	Ile	Leu	Val	Pro	Arg	Asn	Thr	Leu	Leu	His	Glu
865					870					875				880	
Gln	Trp	Cys	Asp	Leu	Leu	Glu	Ala	Asn	Ser	Val	Asp	Ser	Val	Lys	Val
			885						890					895	
Arg	Ser	Val	Val	Ser	Cys	Asp	Thr	Asp	Phe	Gly	Val	Cys	Ala	His	Cys
			900					905					910		
Tyr	Gly	Arg	Asp	Leu	Ala	Arg	Gly	His	Ile	Ile	Asn	Lys	Gly	Glu	Ala
	915						920					925			
Ile	Gly	Val	Ile	Ala	Ala	Gln	Ser	Ile	Gly	Glu	Pro	Gly	Thr	Gln	Leu
	930					935					940				
Thr	Met	Arg	Thr	Phe	His	Ile	Gly	Gly	Ala	Ala	Ser	Arg	Ala	Ala	Ala
945					950				955					960	
Glu	Ser	Ser	Ile	Gln	Val	Lys	Asn	Lys	Gly	Ser	Ile	Lys	Leu	Ser	Asn
			965						970					975	
Ala	Lys	Ser	Val	Val	Asn	Ser	Ser	Gly	Lys	Leu	Val	Ile	Thr	Ser	Arg
			980					985				990			
Asn	Thr	Glu	Leu	Lys	Leu	Ile	Asp	Glu	Phe	Gly	Arg	Thr	Lys	Glu	Ser
	995						1000					1005			
Tyr	Lys	Val	Pro	Tyr	Gly	Ala	Val	Met	Ala	Lys	Gly	Asp	Gly	Glu	Gln
	1010					1015					1020				
Val	Ala	Gly	Gly	Glu	Thr	Val	Ala	Asn	Trp	Asp	Pro	His	Thr	Met	Pro
1025					1030					1035					1040
Val	Ile	Thr	Glu	Val	Ser	Gly	Phe	Ile	Arg	Phe	Thr	Asp	Met	Ile	Asp
			1045						1050					1055	
Gly	Gln	Thr	Ile	Thr	Arg	Gln	Thr	Asp	Glu	Leu	Thr	Gly	Leu	Ser	Ser
			1060					1065				1070			
Leu	Val	Val	Leu	Asp	Ser	Ala	Glu	Arg	Thr	Thr	Gly	Gly	Lys	Asp	Leu
			1075				1080					1085			
Arg	Pro	Ala	Leu	Lys	Ile	Val	Asp	Ala	Gln	Gly	Asn	Asp	Val	Leu	Ile
	1090					1095					1100				
Pro	Gly	Thr	Asp	Met	Pro	Ala	Gln	Tyr	Phe	Leu	Pro	Gly	Lys	Ala	Ile
1105					1110					1115				1120	
Val	Gln	Leu	Glu	Asp	Gly	Val	Gln	Ile	Ser	Ser	Gly	Asp	Thr	Leu	Ala
			1125						1130					1135	
Arg	Ile	Pro	Gln	Glu	Ser	Gly	Gly	Thr	Lys	Asp	Ile	Thr	Gly	Gly	Leu
	1140						1145					1150			
Pro	Arg	Val	Ala	Asp	Leu	Phe	Glu	Ala	Arg	Arg	Pro	Lys	Glu	Pro	Ala
	1155						1160					1165			
Ile	Leu	Ala	Glu	Ile	Ser	Gly	Ile	Ile	Ser	Phe	Gly	Lys	Glu	Thr	Lys
	1170					1175						1180			
Gly	Lys	Arg	Arg	Leu	Val	Ile	Thr	Pro	Val	Asp	Gly	Ser	Glu	Pro	Tyr
1185					1190					1195				1200	
Glu	Glu	Met	Ile	Pro	Lys	Trp	Arg	Gln	Leu	Asn	Val	Phe	Glu	Gly	Glu
			1205						1210				1215		
Arg	Val	Glu	Arg	Gly	Asp	Val	Val	Ser	Asp	Gly	Pro	Glu	Ala	Pro	His
			1220					1225				1230			
Asp	Ile	Leu	Arg	Leu	Arg	Gly	Val	His	Ala	Val	Thr	Arg	Tyr	Ile	Val
	1235						1240					1245			
Asn	Glu	Val	Gln	Asp	Val	Tyr	Arg	Leu	Gln	Gly	Val	Lys	Ile	Asn	Asp
	1250					1255					1260				
Lys	His	Ile	Glu	Val	Ile	Val	Arg	Gln	Met	Leu	Arg	Lys	Ala	Thr	Ile
1265					1270					1275				1280	

Glu Asn Ala Gly Ser Ser Asp Phe Leu Glu Gly Glu Gln Val Glu Tyr
 1285 1290
 Ser Arg Val Lys Ile Ala Asn Arg Asp Leu Glu Ala Asn Gly Lys Ile
 1300 1305 1310
 Gly Ala Thr Phe Ser Arg Asp Leu Leu Gly Ile Thr Lys Ala Ser Leu
 1315 1320 1325
 Ala Thr Glu Ser Phe Ile Ser Ala Ala Ser Phe Gln Glu Thr Thr Arg
 1330 1335 1340
 Val Leu Thr Glu Ala Ala Val Ala Gly Lys Arg Asp Glu Leu Arg Gly
 1345 1350 1355 1360
 Leu Lys Glu Asn Val Ile Val Gly Arg Leu Ile Pro Ala Gly Thr Gly
 1365 1370 1375
 Tyr Ala Tyr His Gln Asp Arg Met Arg Arg Arg Ala Ala Gly Glu Leu
 1380 1385 1390
 Pro Ala Ala Pro Gln Val Thr Ala Glu Asp Ala Ser Ala Ser Leu Ala
 1395 1400 1405
 Glu Leu Leu Asn Ala Gly Leu Gly Gly Ser Asp Asn Glu
 1410 1415 1420

<210> 8233

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 8233

Arg Thr Asp Ala Ile Arg Asn Cys Lys Met Thr Glu Leu Lys Asn Asp
 1 5 10 15
 Arg Tyr Leu Arg Ala Leu Leu Arg Gln Pro Val Asp Val Thr Pro Val
 20 25 30
 Trp Met Met Arg Gln Ala Gly Arg Tyr Leu Pro Glu Tyr Lys Ala Thr
 35 40 45
 Arg Ala Gln Ala Gly Asp Phe Met Ser Leu Cys Lys Asn Ala Glu Leu
 50 55 60
 Ala Cys Glu Val Thr Leu Gln Pro Leu Arg Arg Phe Pro Leu Asp Ala
 65 70 75 80
 Ala Ile Leu Phe Ser Asp Ile Leu Thr Ile Pro Asp Ala Met Gly Leu
 85 90 95
 Gly Leu Tyr Phe Glu Thr Gly Glu Gly Pro Arg Phe Thr Ser Pro Ile
 100 105 110
 Lys Ser Lys Ala Asp Val Asp Lys Leu Pro Ile Pro Asp Pro Glu Gly
 115 120 125
 Glu Leu Ser Tyr Val Met Asn Ala Val Arg Thr Ile Arg Arg Glu Leu
 130 135 140
 Lys Gly Asp Val Pro Leu Ile Gly Phe Ser Gly Ser Pro Trp Thr Leu
 145 150 155 160
 Ala Thr Tyr Met Val Glu Gly Gly Ser Ser Lys Ala Phe Thr Val Ile
 165 170 175
 Lys Lys Met Met Tyr Ala Glu Pro Leu Ala Leu His Ala Leu Leu Asp
 180 185 190
 Lys Leu Ala Lys Ser Val Thr Leu Tyr Leu Asn Ala Gln Ile Lys Ala
 195 200 205
 Gly Ala Gln Ser Val Met Ile Phe Asp Thr Trp Gly Gly Val Leu Thr
 210 215 220
 Gly Arg Asp Tyr Gln Gln Phe Ser Leu Tyr Tyr Met His Lys Ile Val
 225 230 235 240
 Asp Gly Leu Leu Arg Glu Asn Glu Gly Arg Arg Val Pro Val Thr Leu
 245 250 255
 Phe Thr Lys Gly Gly Gly Gln Trp Leu Glu Ala Met Ala Ala Thr Gly
 260 265 270
 Cys Asp Ala Leu Gly Leu Asp Trp Thr Thr Asp Ile Ala Asp Ala Arg
 275 280 285

Arg Arg Val Gly Asp Lys Val Ala Leu Gln Gly Asn Met Asp Pro Ser
 290 295 300
 Met Leu Tyr Ala Gln Pro Ala Arg Ile Glu Glu Glu Val Ser Thr Ile
 305 310 315 320
 Leu Ser Gly Phe Gly Gln Gly Glu Gly His Val Phe Asn Leu Gly His
 325 330 335
 Gly Ile His Gln Asp Val Pro Pro Glu His Ala Gly Val Phe Val Glu
 340 345 350
 Ala Val His Arg Leu Ser Ala Gln Tyr His Lys
 355 360

<210> 8234

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 8234

Gly Val Val Met Asp Leu Ala Ser Leu Arg Ala Gln Gln Ile Glu Leu
 1 5 10 15
 Ala Ser Ser Val Ile Arg Glu Asp Arg Leu Asp Thr Asp Pro Arg
 20 25 30
 Tyr Ile Gly Gly Ala Asp Val Gly Phe Glu Gln Gly Gly Glu Val Thr
 35 40 45
 Arg Ala Ala Met Val Val Leu Lys Tyr Pro Ser Leu Glu Leu Val Glu
 50 55 60
 Tyr Lys Val Ala Arg Ile Ala Thr Thr Met Pro Tyr Ile Pro Gly Phe
 65 70 75 80
 Leu Ser Phe Arg Glu Tyr Pro Ala Leu Leu Ala Ala Trp Glu Gln Leu
 85 90 95
 Ser Gln Lys Pro Asp Leu Leu Phe Val Asp Gly His Gly Ile Ser His
 100 105 110
 Pro Arg Arg Leu Gly Val Ala Ser His Phe Gly Leu Leu Val Asp Val
 115 120 125
 Pro Thr Ile Gly Val Ala Lys Lys Arg Leu Cys Gly Ala Phe Glu Pro
 130 135 140
 Leu Ser Ala Glu Pro Gly Ala Leu Ala Pro Leu Ile His Lys Gly Glu
 145 150 155 160
 Gln Leu Ala Trp Val Trp Arg Ser Lys Ala Arg Cys Asn Pro Leu Phe
 165 170 175
 Ile Ala Thr Gly His Arg Val Ser Met Asp Ser Ala Leu Ala Trp Val
 180 185 190
 Gln Arg Cys Met Lys Gly Tyr Arg Leu Pro Glu Pro Thr Arg Trp Ala
 195 200 205
 Asp Ala Val Ala Ser Ser Arg Pro Ala Phe Ile Arg Trp Gln Glu Ile
 210 215 220
 Gln Pro
 225

<210> 8235

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8235

Val Lys Thr Thr Arg Met Glu His Pro Gly Ala Ala Ala Arg Leu Phe
 1 5 10 15
 Lys Glu Phe Ala Lys Ala Asn Ala Lys Phe Glu Val Lys Ala Ala Ala
 20 25 30
 Phe Glu Gly Glu Leu Ile Pro Ala Ser Gln Ile Asp Arg Leu Ala Thr
 35 40 45
 Leu Pro Thr Tyr Glu Glu Ala Ile Ala Arg Leu Met Ala Thr Met Lys

50 55 60
 Glu Ala Ala Ala Gly Lys Leu Val Arg Thr Leu Ala Ala Val Arg Asp
 65 70 75 80
 Ala Lys Glu Ala Ala
 85

<210> 8236
 <211> 122
 <212> PRT
 <213> Enterobacter cloacae

<400> 8236
 Met Ser Ile Thr Lys Asp Gln Ile Ile Glu Ala Val Ala Ala Met Ser
 1 5 10 15
 Val Met Asp Val Val Glu Leu Val Ser Ala Met Glu Glu Lys Phe Gly
 20 25 30
 Val Ser Ala Ala Ala Val Ala Val Ala Ala Gly Pro Ala Glu Ala
 35 40 45
 Ala Glu Glu Lys Thr Glu Phe Asp Val Ile Leu Lys Ala Ala Gly Ala
 50 55 60
 Asn Lys Val Ala Val Ile Lys Ala Val Arg Gly Ala Thr Gly Leu Gly
 65 70 75 80
 Leu Lys Glu Ala Lys Asp Leu Val Glu Ser Ala Pro Ala Ala Leu Lys
 85 90 95
 Glu Gly Val Ser Lys Asp Asp Ala Glu Ala Leu Lys Lys Ser Leu Glu
 100 105 110
 Glu Ala Gly Ala Glu Val Glu Val Lys
 115 120

<210> 8237
 <211> 265
 <212> PRT
 <213> Enterobacter cloacae

<400> 8237
 Ser Glu Gly Ser Ala Ile Asp Met Asp Arg Ile Ile Glu Lys Ser Asp
 1 5 10 15
 Leu Gly Trp Trp Ile Val Ser His Glu Gln Lys Leu Trp Leu Pro Gly
 20 25 30
 Gly Glu Ile Pro Tyr Gly Ala Ala Glu Ile Phe Asp Leu Val Gly Gln
 35 40 45
 Pro Ala Leu Arg Ile Gly Glu Trp Gln Gly Asp Pro Val Trp Leu Ile
 50 55 60
 Leu Gln Ala Arg Arg Gln Asp Met Gly Ser Val Arg Gln Val Leu Asp
 65 70 75 80
 Arg Asp Val Gly Leu Phe Gln Leu Ala Gly Arg Gly Val Gln Leu Ala
 85 90 95
 Glu Phe Tyr Arg Ser His Lys Tyr Cys Gly Tyr Cys Gly His Thr Met
 100 105 110
 His Pro Ser Lys Thr Glu Trp Ala Met Leu Cys Gly His Cys Arg Glu
 115 120 125
 Arg Tyr Tyr Pro Gln Ile Ala Pro Cys Ile Ile Val Ala Ile Arg Arg
 130 135 140
 Asp Asp Ser Ile Leu Leu Ala Gln His Thr Arg His Arg Asn Gly Ile
 145 150 155 160
 His Thr Val Leu Ala Gly Phe Val Glu Val Gly Glu Thr Leu Glu Gln
 165 170 175
 Ala Val Ala Arg Glu Val Met Glu Glu Ser Gly Ile Lys Val Lys Asn
 180 185 190
 Leu Arg Tyr Val Thr Ser Gln Pro Trp Pro Phe Pro Met Ser Leu Met
 195 200 205

Thr Ala Phe Met Ala Glu Tyr Asp Ser Gly Glu Ile Val Ile Asp Lys
 210 215 220
 Lys Glu Leu Leu Glu Ala Asn Trp Tyr Arg Tyr Asp Asp Leu Pro Leu
 225 230 235 240
 Leu Pro Pro Pro Gly Thr Val Ala Arg Arg Leu Ile Glu Asp Thr Val
 245 250 255
 Ala Met Cys Arg Ala Glu Tyr Glu
 260 265

<210> 8238

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 8238

Val Arg Arg Val Ala Val Asn Ser Phe Asn Glu Gly Ala Ala Thr Pro
 1 5 10 15
 Leu Leu Ser Phe Trp Arg Gly Pro Leu Ala Leu Gly Val Leu Leu
 20 25 30
 Leu Ser Ala Cys Ser His Asp Ser Ser Leu Pro Pro Phe Thr Ala Ser
 35 40 45
 Gly Tyr Ala Asp Asn Gln Gly Ala Val Arg Ile Trp Arg Lys Asp Ser
 50 55 60
 Ser Asp Glu Val His Met Leu Thr Ala Phe Ser Pro Trp His Asn Gly
 65 70 75 80
 Asn Thr Ser Thr Ala Glu Tyr Arg Trp Gln Gly Asp Ala Leu Ser Leu
 85 90 95
 Ile Glu Leu Asn Ile Tyr Ser Lys Thr Pro Glu His Val Lys Val Arg
 100 105 110
 Phe Asp Asp His Gly Glu Leu Ser Phe Met Gln His Glu Val Ser Gly
 115 120 125
 Leu Lys Lys Gln Leu Ser Ser Asp Gln Val Ala Leu Tyr Ser Tyr Arg
 130 135 140
 Ala Glu Gln Leu Arg Gln Thr Ser Asp Ala Leu Arg Gln Gly Arg Val
 145 150 155 160
 Val Leu Arg Gln Gly Arg Trp His Ala Asp Gly Thr Val Thr Thr Cys
 165 170 175
 Glu Gly Gln Thr Val Lys Pro Glu Leu Glu Ser Trp Ala Thr Glu His
 180 185 190
 Ile Gln Arg Arg Gln Arg His Ser Val Glu Val Ser Val Ala Trp
 195 200 205
 Leu Glu Ala Pro Glu Gly Ser Gln Leu Leu Leu Val Ala Asn Glu Asp
 210 215 220
 Phe Cys Thr Trp Gln Pro Thr Glu Lys Ser Phe
 225 230 235

<210> 8239

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 8239

Ala Pro Pro Gly Ile Arg Val Arg Thr Ser Leu Ala Pro Ser Val Arg
 1 5 10 15
 Val Thr Ala Leu Ser Cys Trp Ser Ala Ile Ala Ala Thr Leu Arg Arg
 20 25 30
 Ala Asn Gly Leu Lys Trp Asn Ala Leu Thr Thr Cys Ser Glu Ala Asp
 35 40 45
 Met Thr Met Glu Leu Ser Asp Pro Glu Met Met Arg Tyr Asn Arg Gln
 50 55 60
 Ile Val Leu Arg Gly Phe Asp Phe Glu Gly Gln Glu Ala Leu Lys Ala

65 70 75 80
 Ala Ser Val Leu Val Val Gly Leu Gly Gly Leu Gly Cys Ala Ala Ala
 85 90 95
 Gln Tyr Leu Ala Ala Gly Val Gly Ser Met Thr Leu Leu Asp Phe
 100 105 110
 Asp Thr Val Ser Val Ser Asn Leu Gln Arg Gln Thr Leu His Ser Asp
 115 120 125
 Ala Thr Val Gly Gln Pro Lys Val Glu Ser Ala Arg Thr Ala Leu Ala
 130 135 140
 Arg Ile Asn Pro Asn Val Gln Phe Thr Leu Ile Asp Ala Met Leu Asp
 145 150 155 160
 Asp Asp Ala Leu Phe Ala Gln Ile Ala Arg His Asp Leu Val Leu Asp
 165 170 175
 Cys Thr Asp Asn Val Ala Ile Arg Asn Gln Leu Asn Ala Gly Cys Phe
 180 185 190
 Ala His Lys Thr Pro Leu Ile Ser Gly Ala Ala Ile Arg Met Glu Gly
 195 200 205
 Gln Ile Thr Val Phe Thr Tyr Ala Glu Gly Glu Pro Cys Tyr Arg Cys
 210 215 220
 Leu Ser Arg Leu Phe Gly Glu Asn Ala Leu Thr Cys Val Glu Ala Gly
 225 230 235 240
 Val Met Ala Pro Leu Val Gly Val Ile Gly Ser Leu Gln Ala Met Glu
 245 250 255
 Ala Ile Lys Val Leu Ala His Tyr Gly Thr Pro Ala Ala Gly Lys Ile
 260 265 270
 Val Met Tyr Asp Ala Met Thr Cys Gln Phe Arg Glu Met Lys Leu Met
 275 280 285
 Arg Asn Pro Gly Cys Glu Val Cys Glu Gly
 290 295

<210> 8240

<211> 305

<212> PRT

<213> *Enterobacter cloacae*

<400> 8240

Ser Glu Gly Lys Lys Met Ile Phe Asn Ile Gln Arg Tyr Ser Thr His
 1 5 10 15
 Asp Gly Pro Gly Ile Arg Thr Val Val Phe Leu Lys Gly Cys Ser Leu
 20 25 30
 Gly Cys Arg Trp Cys Gln Asn Pro Glu Ser Arg Ser Arg Ser Arg Asp
 35 40 45
 Val Leu Phe Asp Ala Arg Leu Cys Leu Asp Gly Cys Glu Leu Cys Gln
 50 55 60
 Gln Ala Ala Pro Gly Cys Val Glu Arg Ala Leu Asn Gly Leu Val Ile
 65 70 75 80
 His Arg Glu Lys Leu Asn Asp Glu Thr Leu Thr Ala Leu Thr Asp Cys
 85 90 95
 Cys Pro Thr Gln Ala Leu Thr Val Cys Gly Glu Glu Lys Gln Val Glu
 100 105 110
 Glu Ile Met Ala Thr Val Leu Arg Asp Lys Pro Phe Tyr Asp Arg Ser
 115 120 125
 Gly Gly Gly Ile Thr Leu Ser Gly Gly Glu Pro Phe Met Asn Pro Asp
 130 135 140
 Leu Ala His Ala Leu Phe Lys Ala Ser His Glu Gln Gly Ile His Ser
 145 150 155 160
 Ala Val Glu Thr Cys Leu His Val Pro Trp His Tyr Ile Glu Pro Ser
 165 170 175
 Leu Pro Tyr Val Asp Leu Phe Leu Ala Asp Leu Lys His Val Asp Gly
 180 185 190
 Asp Val Phe Lys Gln Trp Thr Asp Gly Ser Ala Lys Arg Ile Leu Asp

305

<211> 801

<213> Ent

<213> Enterobacter cloacae

Thr Ser Arg Glu Ala Arg Leu Ile Val Asp Val Leu His Met Lys Thr
1 5 10 15

Leu Lys Asn Trp Thr Leu Asp Thr Gln Ser Ala Asn His Leu Glu Leu
20 25 30

Leu Val Asp Ser Gln His Arg Leu Cys Leu Tyr Val Leu Glu Glu Asn
35 40 45

Leu Phe Arg Val Leu Ile Lys Arg Lys Gly Glu Leu Ala Leu Asp Arg
50 55 60

Thr	Trp	Ser	Ile	Ala	Pro	Glu	Lys	Asp	Val	Pro	Trp	Glu	Gly	Arg	Arg
65					70					75					80
Arg	Arg	Arg	Ile	Ser	Gln	Pro	Gln	Gln	Gln	Val	Trp	Trp	Trp	Trp	Trp

Arg Asp Asp Ile Ser Gly Phe Ser Cys Pro Ala Trp Thr Leu Thr Gln
85 90 95
Gln Asp Asp Thr Leu Thr Val Ala Thr Gly Glu Leu Arg Val Thr Met

Gln Asp Asp Thr Leu Thr Val Ala Thr Glu Gln Leu Arg Val Thr Val
100 105 110
His Gln Pro Leu Trp Leu Glu Trp His Tyr Arg Asp Asp Ala Gly Gly

His Gln Pro Leu Trp Leu Glu Trp His Tyr Arg Asn Asp Ala Gly Glu
115 120 125
Trp Gln Pro Leu Val Asn Asp Arg Pro Thr Ser Ala Tyr Leu Leu Asn

Ala His Gly Asp Gly Val Ala His Tyr Leu Ser Arg Arg Lys Asp Glu

Ala His Gly Asp Gly Val Ala His Tyr Leu Ser Arg Arg Lys Asp Glu
145 150 155 160

Arg Phe Tyr Gly Leu Gly Glu Lys Ala Gly Asp Leu Gln Arg Asn Glu

Lys Arg Tyr Glu Met Arg Asn Leu Asp Ala Met Gly Tyr Asn Ala Ala

180 185 190

Ser Thr Asp Pro Leu Tyr Lys His Ile Pro Phe Thr Leu Thr Arg Arg

Asp Asp Val Ser Tyr Gly Leu Phe Tyr Asp Asn Leu Ser Ser Cys Trp

210 215 220
Leu Asp Leu Gly Asn Glu Ile Asp Asn Tyr His Thr Ala Tyr Arg Arg

Trp Gln Ala Glu Ala Gly Asp Ile Asp Tyr Tyr Leu Phe Thr Gly Lys

Arg Val Leu Asp Val Thr Lys Ala Phe Val Arg Leu Thr Gly Lys Thr

Leu Phe Gly 260 Pro Lys Trp Ser Leu 265 Gly Tyr Ser Gly Ser 270 Thr Met His

Tyr Thr Asp Ala Pro Asp Ala Gln Asn Gln Leu Met Asn Phe Ile Arg

Leu Cys Glu Glu His Ala Ile Pro Cys Asp Ser Phe Gln Leu Ser Ser

305											310											315											320			
Gly	Tyr	Thr	Ser	Ile	Asn	Gly	Lys	Arg	Tyr	Val	Phe	Asn	Trp	Asn	Tyr	325	Gln	Pro	Lys	Val	Met	Ser	Gln	Ala	Phe	His	Asp	Ala	330	Val	Phe	Asn	Trp	Asn	Tyr	335
Asp	Lys	Val	Pro	Gln	Pro	Lys	Val	Met	Ser	Gln	Ala	Phe	His	Asp	Ala	340	Gln	Pro	Lys	Val	Met	Ser	Gln	Ala	Phe	His	Asp	Ala	345	Gln	Ala	Phe	His	Asp	Ala	350
Gly	Leu	Arg	Leu	Ala	Ala	Asn	Ile	Lys	Pro	Cys	Leu	Leu	Gln	Asp	His	355	Leu	Arg	Glu	Val	Ala	Glu	Arg	Gly	Leu	Phe	Ile	Arg	Asp	Ser	360	Leu	Arg	Asp	Ser	365
Pro	Arg	Tyr	Gly	Glu	Val	Ala	Glu	Arg	Gly	Leu	Phe	Ile	Arg	Asp	Ser	370	Thr	Asp	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	375	Thr	Asp	Ala	Pro	380
Glu	Thr	Asp	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Asp	Glu	Gly	Ser	385	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	390	Leu	Arg	Ala	Pro	395
His	Leu	Asp	Phe	Thr	Asn	Pro	Gln	Thr	Val	Gln	Trp	Trp	Gln	Asn	Gly	405	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	410	Leu	Arg	Ala	Pro	415
Val	Thr	Thr	Gln	Leu	Leu	Glu	Met	Gly	Ile	Asp	Ser	Thr	Trp	Asn	Asp	420	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	425	Leu	Arg	Ala	Pro	430
Asn	Asn	Glu	Tyr	Glu	Val	Trp	Asp	Gly	Glu	Ala	Arg	Cys	Tyr	Gly	Phe	435	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	440	Leu	Arg	Ala	Pro	445
Gly	Lys	Glu	Ile	Ala	Ile	Lys	His	Ile	Arg	Pro	Val	Met	Pro	Leu	Leu	450	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	455	Leu	Arg	Ala	Pro	460
Met	Met	Arg	Ala	Ser	Leu	Glu	Ala	Gln	Gln	Arg	Phe	Ala	Glu	Pro	Lys	465	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	470	Leu	Arg	Ala	Pro	475
Arg	Pro	Tyr	Leu	Ile	Ser	Arg	Ser	Gly	Cys	Ala	Gly	Met	Gln	Arg	Tyr	485	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	490	Leu	Arg	Ala	Pro	495
Val	Gln	Thr	Trp	Ser	Gly	Asp	Asn	Arg	Thr	Asn	Trp	Asp	Thr	Leu	Arg	500	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	505	Leu	Arg	Ala	Pro	510
Tyr	Asn	Ile	Arg	Met	Gly	Leu	Gly	Met	Ser	Leu	Ser	Gly	Leu	Phe	Asn	515	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	520	Leu	Arg	Ala	Pro	525
Val	Gly	His	Asp	Val	Gly	Gly	Phe	Ser	Gly	Asp	Lys	Pro	Asp	Ala	Glu	530	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	535	Leu	Arg	Ala	Pro	540
Leu	Phe	Val	Arg	Trp	Val	Gln	Asn	Gly	Val	Met	His	Pro	Arg	Phe	Thr	545	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	550	Leu	Arg	Ala	Pro	555
Ile	His	Ser	Trp	Asn	Asp	Asp	His	Thr	Val	Asn	Glu	Pro	Trp	Met	Tyr	555	Leu	Arg	Ala	Pro	Glu	Arg	Ser	Ser	Phe	Trp	Asp	Glu	Gly	Ser	560	Leu	Arg	Ala	Pro	565
Pro	Gly	Val	Thr	Pro	Ala	Ile	Arg	Gly	Ala	Ile	Glu	Leu	Arg	Tyr	Arg	570	Leu	Arg	Ala	Pro	Glu	Arg	Ser</													

<210> 8242
 <211> 443
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8242

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Pro Met Ser Asn Val Thr His Pro Pro Lys Ile Gly Phe Val Ser Leu
1      5      10      15
Gly Cys Pro Lys Asn Leu Val Asp Ser Glu Arg Ile Leu Thr Glu Leu
20      25      30
Arg Thr Glu Gly Tyr Asp Val Val Pro Ser Tyr Asp Asn Ala Asp Met
35      40      45
Val Ile Val Asn Thr Cys Gly Phe Ile Asp Ser Ala Val Gln Glu Ser
50      55      60
Leu Glu Ala Ile Gly Glu Ala Leu Thr Glu Asn Gly Lys Val Ile Val
65      70      75      80
Thr Gly Cys Leu Gly Ala Lys Glu Asp Gln Ile Arg Glu Val His Pro
85      90      95
Lys Val Leu Glu Ile Thr Gly Pro His Ser Tyr Glu Gln Val Leu Glu
100      105      110
His Val His His Tyr Val Pro Lys Pro Lys His Asn Pro Phe Leu Ser
115      120      125
Leu Val Pro Glu Gln Gly Val Lys Leu Thr Pro Arg His Tyr Ala Tyr
130      135      140
Leu Lys Ile Ser Glu Gly Cys Asn His Arg Cys Thr Phe Cys Ile Ile
145      150      155      160
Pro Ser Met Arg Gly Asp Leu Val Ser Arg Pro Ile Gly Glu Val Leu
165      170      175
Ala Glu Ala Lys Arg Leu Ala Asp Ala Gly Val Lys Glu Leu Leu Val
180      185      190
Ile Ser Gln Asp Thr Ser Ala Tyr Gly Val Asp Val Lys His Arg Ser
195      200      205
Gly Phe His Asn Gly Glu Pro Val Lys Thr Ser Met Val Gly Leu Cys
210      215      220
Glu Gln Leu Ala Lys Leu Gly Ile Trp Thr Arg Leu His Tyr Val Tyr
225      230      235      240
Pro Tyr Pro His Val Asp Asp Val Ile Pro Leu Met Ala Glu Gly Lys
245      250      255
Ile Leu Pro Tyr Leu Asp Ile Pro Leu Gln His Ala Ser Pro Arg Ile
260      265      270
Leu Lys Leu Met Lys Arg Pro Gly Ser Val Asp Arg Gln Leu Ala Arg
275      280      285
Ile Lys Gln Trp Arg Glu Ile Cys Pro Asp Leu Thr Leu Arg Ser Thr
290      295      300
Phe Ile Val Gly Phe Pro Gly Glu Thr Glu Glu Asp Phe Gln Met Leu
305      310      315      320
Leu Asp Phe Leu Lys Glu Ala Arg Leu Asp Arg Val Gly Cys Phe Lys
325      330      335
Tyr Ser Pro Val Glu Gly Ala Thr Ala Asn Glu Leu Ala Asp Gln Val
340      345      350
Pro Glu Glu Val Lys Glu Glu Arg Trp Asn Arg Phe Met Gln Leu Gln
355      360      365
Gln Gln Ile Ser Ala Glu Arg Leu Gln Glu Lys Val Gly Arg Glu Ile
370      375      380
Leu Val Ile Ile Asp Glu Val Asp Glu Glu Gly Ala Ile Gly Arg Ser
385      390      395      400
Met Ala Asp Ala Pro Glu Ile Asp Gly Ala Val Tyr Leu Asn Gly Glu
405      410      415

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Thr Asn Val Lys Pro Gly Asp Ile Ile Arg Val Lys Val Glu Asn Ala
 420 425 430
 Asp Glu Tyr Asp Leu Trp Gly Ser Arg Val
 435 440

<210> 8243

<211> 185

<212> PRT

<213> *Enterobacter cloacae*

<400> 8243

Pro Gln Lys Arg Gln Ala Gly Arg Arg Asp Asn Arg His Ala Tyr Ala
 1 5 10 15
 His Gly Glu Ile Asp His Asp Arg Arg Asp Arg Ser Arg Gln Asn Met
 20 25 30
 Ala Glu Gln Asp Gly Gly Ile Ala Gly Ser His Ala Ala Arg Arg Leu
 35 40 45
 Asp Lys Gly Leu Leu Leu Gln His Gln Arg Val Ala Thr Tyr Gln Thr
 50 55 60
 Arg Glu Ser Gly Asn Arg Glu Tyr Arg His Gly Asp Asp Val Arg
 65 70 75 80
 His Ala Ala Ala His His Arg His His Gly Asn Arg Gln Gln Asn Thr
 85 90 95
 Gly Lys Gly Lys Gln His Ile Thr Asp Thr His Asp Asp Ala Val Pro
 100 105 110
 Pro Ala Phe Val Val Pro Gly Arg Gln Pro Gln His Gly Ala Asn Cys
 115 120 125
 Cys Ala His Gln His Arg Lys Asp Pro Gly Arg Gln Arg Asp Leu Arg
 130 135 140
 Pro Tyr Gln His Ala Ala Glu Asn Ile Ala Pro Glu Arg Val His Ala
 145 150 155 160
 Lys Pro Val His His Arg Arg Ser Ile Val Gln Pro Val Val Ile Glu
 165 170 175
 Val Val Phe Arg Ile Lys Arg Gly
 180 185

<210> 8244

<211> 391

<212> PRT

<213> *Enterobacter cloacae*

<400> 8244

Pro Arg Pro Tyr Glu Asp Lys Leu Met Thr Thr Leu Asn Leu Asn Thr
 1 5 10 15
 Leu Ser Glu Arg Ile Lys Ala His Lys Thr Ala Leu Val His Ile Val
 20 25 30
 Lys Pro Pro Val Cys Thr Glu Arg Ala Gln His Tyr Thr Glu Met Tyr
 35 40 45
 Gln Gln His Met Asp Lys Pro Ile Pro Val Arg Arg Ala Leu Ala Leu
 50 55 60
 Ala His His Leu Ala Lys Arg Thr Ile Trp Ile Lys His Asp Glu Leu
 65 70 75 80
 Ile Ile Gly Asn Gln Ala Ser Glu Val Arg Ala Ala Pro Ile Phe Pro
 85 90 95
 Glu Tyr Thr Val Ser Trp Ile Glu Lys Glu Ile Asp Asp Leu Ala Asp
 100 105 110
 Arg Pro Gly Ala Gly Phe Ala Val Ser Glu Glu Asn Lys Arg Val Leu
 115 120 125
 His Glu Ile Cys Pro Trp Trp Arg Gly Gln Thr Val Gln Asp Arg Cys
 130 135 140
 Tyr Gly Met Phe Thr Asp Glu Gln Lys Gly Leu Leu Glu Thr Gly Ile

145 150 155 160
 Ile Lys Ala Glu Gly Asn Met Thr Ser Gly Asp Ala His Leu Ala Val
 165 170 175
 Asn Phe Pro Leu Val Leu Glu Lys Gly Leu Asp Gly Leu Arg Ala Lys
 180 185 190
 Val Ala Glu Arg Arg Ser Arg Ile Asn Leu Thr Val Leu Glu Asp Leu
 195 200 205
 His Gly Asp Gln Phe Leu Lys Ala Ile Asp Ile Val Leu Glu Ala Val
 210 215 220
 Ser Leu His Ile Lys Arg Phe Ala Asp Leu Ala Arg Glu Met Ala Ser
 225 230 235 240
 Ser Glu Thr Arg Glu Ser Arg Arg Asp Glu Leu Leu Ala Met Ala Glu
 245 250 255
 Asn Cys Asp Val Ile Ala His Glu Pro Pro Lys Thr Phe Trp Gln Ala
 260 265 270
 Leu Gln Leu Cys Tyr Tyr Ile Gln Leu Ile Leu Gln Ile Glu Ser Asn
 275 280 285
 Gly His Ser Val Ser Phe Ala Arg Met Asp Gln Tyr Leu Tyr Pro Tyr
 290 295 300
 Tyr Arg Arg Asp Val Glu Leu Gly Gln Ser Leu Asp Arg Glu His Ala
 305 310 315 320
 Ile Glu Leu Leu His Ser Cys Trp Leu Lys Leu Leu Glu Val Asn Lys
 325 330 335
 Ile Arg Ser Gly Ser His Ser Lys Ala Ser Gly Gly Gln Pro Ala Val
 340 345 350
 Ser Glu Arg His His Arg Arg Pro Glu Ala Gly Gln Arg Arg Ala Asn
 355 360 365
 Gly Arg Gly Gln Pro Ala Leu Leu Arg Asp Ser Gly Ile Leu Arg Ser
 370 375 380
 Pro Ala Phe His Pro Ala
 385 390

<210> 8245

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 8245

Ile Cys Ala Pro Arg His Leu Val Ile Arg Met Phe Gln Asn Ala Val
 1 5 10 15
 Thr Gln Glu His Ser Met Thr Val Lys Val Ile Val Thr Asp Met Asp
 20 25 30
 Gly Thr Phe Leu Asp Asp Ala Lys Gln Tyr Asp Arg Asp Arg Phe Gln
 35 40 45
 Ala Gln Phe Lys Gln Leu Lys Ala Arg Asn Ile Glu Phe Val Val Ala
 50 55 60
 Ser Gly Asn Gln Tyr Tyr Gln Leu Ile Ser Phe Phe Pro Glu Leu Lys
 65 70 75 80
 Asp Gln Ile Ser Phe Val Ala Glu Asn Gly Ala Leu Val Phe Asp His
 85 90 95
 Gly Glu Gln Ile Phe His Gly Glu Leu Thr Arg His Glu Ser Gln Ile
 100 105 110
 Val Ile Gly Glu Leu Leu Lys Asp Lys Gly Leu Asn Phe Val Ala Cys
 115 120 125
 Gly Leu Glu Ser Ala Tyr Val Ser Asp Lys Ala Pro Asp Ala Phe Val
 130 135 140
 Ala Leu Met Ser Lys His Tyr His Arg Leu Lys Arg Ile Ser Asp Tyr
 145 150 155 160
 Arg Asp Ile Asp Asp Val Leu Phe Lys Phe Ser Leu Asn Leu Pro Asp
 165 170 175
 Ser Asp Ile Pro Asn Leu Val Asp Lys Leu His Val Ser Leu Asp Gly

180 185 190
 Ile Met Lys Pro Val Thr Ser Gly Phe Gly Phe Val Asp Leu Ile Ile
 195 200 205
 Pro Gly Leu His Lys Ala Asn Gly Ile Ser Arg Leu Leu Lys Arg Trp
 210 215 220
 Lys Ile Ser Pro Gln Glu Cys Val Ala Ile Gly Asp Ser Gly Asn Asp
 225 230 235 240
 Ala Glu Met Leu Lys Leu Val Lys Tyr Ser Phe Ala Met Asp Asn Ala
 245 250 255
 Ala Glu Ser Ile Lys Glu Ile Ser Arg Tyr Ser Thr Asp Asp Asn Asn
 260 265 270
 His Gln Gly Ala Leu Asn Val Ile Gln Ala Val Leu Asp Asn His Ser
 275 280 285
 Pro Phe Asp Val
 290

<210> 8246

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 8246

His Leu Asn Leu Arg Pro Leu Thr Val Arg Leu Val Glu Ser Lys Met
 1 5 10 15
 Ser Gln Asp Ile Asn Asn Thr Ile Ala Thr Ser Lys Thr Arg Arg Val
 20 25 30
 Ile Lys Asn Leu Arg Trp Tyr Val Leu Val Leu Phe Leu Leu Gly Val
 35 40 45
 Thr Val Asn Tyr Ile Thr Arg Asn Ser Leu Gly Ile Leu Ala Pro Glu
 50 55 60
 Leu Lys Glu Ser Leu Gly Ile Thr Thr Glu Gln Tyr Ser Trp Ile Val
 65 70 75 80
 Gly Ala Phe Gln Ile Ala Tyr Thr Ile Phe Gln Pro Leu Cys Gly Trp
 85 90 95
 Leu Ile Asp Val Ile Gly Leu Lys Ile Gly Phe Met Val Cys Ala Gly
 100 105 110
 Ile Trp Ala Leu Met Cys Ile Phe His Ala Gly Ala Gly Ser Trp Leu
 115 120 125
 His Leu Ala Ile Leu Arg Phe Phe Met Gly Ala Ser Glu Ala Ala Ala
 130 135 140
 Thr Pro Ala Asn Ala Lys Thr Ile Gly Glu Trp Phe Pro Lys Ser Glu
 145 150 155 160
 Arg Pro Val Ala Ala Gly Trp Ala Gly Val Gly Phe Ser Ile Gly Ala
 165 170 175
 Met Leu Ala Pro Pro Ile Ile Tyr Phe Ala His Ala Ser Phe Gly Trp
 180 185 190
 Gln Gly Ala Phe Met Phe Thr Gly Val Leu Ala Leu Leu Trp Val Ile
 195 200 205
 Leu Trp Trp Ala Phe Tyr His Asn Pro Glu Gln His Pro Asn Leu Ser
 210 215 220
 Lys Asp Glu Leu Ala Phe Ile Lys Gln Asp Asn Glu Pro Ala Pro Val
 225 230 235 240
 Lys Leu Pro Phe Leu Thr Ala Leu Lys Thr Val Ser Lys Asn Lys Arg
 245 250 255
 Phe Tyr Gly Ile Ala Ile Pro Ala Phe Met Ala Glu Pro Ala Trp Ala
 260 265 270
 Val Leu Ser Phe Trp Val Pro Leu Tyr Leu Ala Lys Glu His Gly Met
 275 280 285
 Asp Leu Lys Gln Ile Ala Met Phe Ala Trp Leu Pro Phe Leu Ala Ala
 290 295 300
 Asp Leu Gly Ser Val Ala Ser Gly Tyr Leu Thr Arg Leu Tyr Thr Arg

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305          310          315          320
Leu Phe Gly Cys Ser Arg Val Asn Ser Val Val Ala Ser Ser Val Thr
          325          330          335
Gly Ala Phe Leu Met Ile Ser Leu Ala Ile Val Ala Ile Thr Arg Asp
          340          345          350
Pro Tyr Ile Thr Ile Val Leu Ile Ser Ile Gly Gly Phe Gly His Gln
          355          360          365
Ile Ile Ser Cys Met Leu Ser Ala Leu Val Val Glu Ser Phe Asp Lys
          370          375          380
Gly Gln Met Ala Thr Val Asn Gly Met Arg Gly Ser Ala Ala Trp Ile
385          390          395          400
Ala Ser Phe Leu Phe Ser Leu Leu Ile Gly Val Thr Ala Asp Lys Ile
          405          410          415
Gly Phe Asn Pro Leu Phe Ile Ala Met Gly Phe Phe Asp Leu Ile Gly
          420          425          430
Ala Leu Phe Leu Val Ala Phe Ile Ala Glu Arg Arg Ala Lys Arg Ala
          435          440          445

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<210> 8247

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 8247

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Met Glu Leu Lys Gly Ala Ser Gly Trp Cys Ser Ala Ala Cys Ser Pro
1          5          10          15
His Pro Asn Pro Leu Pro Gln Gly Glu Gly Ile Lys Cys Arg Pro Gly
          20          25          30
Lys Ala Lys Pro Pro Pro Gly Tyr Phe Leu Thr Leu Asp Thr Phe Thr
          35          40          45
Ala Gln Val Ile Phe Val Val Thr Gly Glu Val His His Ala Leu Trp
50          55          60
Arg Asn Phe Asp His Ala Gly Arg Gln Arg Ala Asp Glu Leu Thr Val
65          70          75          80
Val Arg Asp Glu Asp Gln Gly Ala Leu Ile His Leu Gln Arg His Val
          85          90          95
Gln Gly Phe Asp Arg Phe His Ile Gln Val Val Ser Arg Phe Val His
          100          105          110
His Gln Asn Ile Arg Phe Phe His His Gln Leu Ala Glu Gln His Thr
          115          120          125
Ala Leu Phe Thr Thr Gly Glu His Phe Gly Gly Leu Phe Asp Val Val
130          135          140
Leu Ala Glu Gln Gln Thr Pro Gln Asn Ala Ala Tyr Arg Leu Leu Ile
145          150          155          160
Val Ala Phe Leu Leu Pro Leu Ala His Pro Val Glu Asp Ser Gln Ile
          165          170          175
Val Phe Glu Phe Ile Phe Met Val Leu Arg Val Val Thr Asn Leu Arg
          180          185          190
Val Phe Arg Pro Phe His Gly Ser Val Val Arg Leu Gln Phe Thr His
          195          200          205
Gln Gly Phe Gln His Ser Gly Phe Thr His Ala Val Gly Ala Glu Asp
210          215          220
Gly Asn Leu Leu Ala His Phe Gln Gln Gln Val Glu Val Phe Glu Gln
225          230          235          240
Arg Ala Phe Ile Glu Ala Phe Gly Glu Ser Phe His Phe Gln Arg Val
          245          250          255
Thr Glu Gln Leu Leu Val Leu Leu Glu Ala Asp Glu Arg Val Leu Thr
          260          265          270
Ala Gly Gly Phe Asn Leu Phe Gln Leu Asp Phe Val Asp Leu Thr Arg

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275 280 285
 Thr Arg Gly Arg Leu Thr Arg Leu Arg Gly Val Gly Ala Glu Ala Ala
 290 295 300
 Asp Glu Gly Leu Gln Val Arg Asn Leu Arg Phe Leu Leu Gly Val Val
 305 310 315 320
 Gly Gln Gln Thr Phe Thr Cys Leu Gly Cys Arg Arg His Val Leu Ile
 325 330 335
 Val Val Ala Arg Ile Asn Ala Gln Leu Ala Val Val Gln Ile Arg His
 340 345 350
 Val Gly Thr His His Val Gln Glu Met Thr Val Val Arg Asn Asp Asp
 355 360 365
 His Gly Ala Val Ala Ile Val Gln Arg Leu Leu Gln Pro Ala Asp Gly
 370 375 380
 Val Asp Val Gln Val Val Gly Arg Phe Val Glu Gln Gln Asp Val Arg
 385 390 395 400
 Val Arg Glu Gln Arg Leu Arg Gln Gln His Thr
 405 410

<210> 8248

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 8248

Leu Leu Gly Leu Ser His His Gly Glu Lys Leu Thr Arg Ile His Ile
 1 5 10 15
 Ser Ser Gly Val Asn Met Ile Thr Leu Trp Gly Arg Asn Asn Ser Thr
 20 25 30
 Asn Val Lys Lys Val Leu Trp Thr Leu Glu Glu Leu Asp Leu Pro Phe
 35 40 45
 Asn Gln Ile Met Ala Gly Met Ala Phe Gly Val Asn Lys Asp Ala Asp
 50 55 60
 Tyr Leu Ala Met Asn Pro Asn Gly Leu Val Pro Leu Leu Arg Asp Asp
 65 70 75 80
 Glu Thr Asp Ala Thr Leu Trp Glu Ser Asn Thr Ile Val Arg Tyr Leu
 85 90 95
 Ala Ala Gln Tyr Gly Gln Gly Arg Leu Trp Val Glu Asn Pro Ala Gln
 100 105 110
 Arg Ala Gln Gly Glu Lys Trp Met Asp Trp Ala Asn Gln Thr Leu Ser
 115 120 125
 Pro Thr His Arg Val Ile Leu Met Gly Leu Ile Arg Thr Pro Glu Ala
 130 135 140
 Asp Arg Asp Tyr Pro Ala Ile His Ala Ala Gln Asp Ala Cys Glu Ser
 145 150 155 160
 Leu Phe Ala Met Met Asp Asp Glu Leu Ala Lys His Thr Trp Phe Ser
 165 170 175
 Gly Asp Thr Phe Gly Val Gly Asp Ile Ala Val Ala Pro Phe Val Trp
 180 185 190
 Asn Leu Thr Asn Met Gly Leu Ser Trp Thr Pro Arg Pro His Leu Glu
 195 200 205
 Arg Trp Ile Gln Gln Leu Ser Glu Arg Pro Ala Tyr Arg Asn Val Val
 210 215 220
 Met Ile Pro Val Thr
 225 230

<210> 8249

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 8249

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Pro His Phe Ser Ala Ile Met Ser Ala Phe Val Val Thr Pro Gln Glu
1      5      10
Pro Thr Met Asp Phe Thr Ala Gly Leu Met Pro Leu Glu Thr Ala Leu
20     25     30
Ser Gln Met Leu Asp Arg Ile Thr Pro Leu His Asp Val Glu Thr Leu
35     40     45
Pro Leu Val Arg Cys Phe Gly Arg Ile Ala Ala Arg Asp Ile Val Ser
50     55     60
Pro Leu Asn Val Pro Gly Phe Asp Asn Ala Ala Met Asp Gly Tyr Ala
65     70     75     80
Val Arg Leu Ala Asp Leu Gln Thr Gly Gln Pro Leu Pro Val Ala Gly
85     90     95
Lys Ala Phe Ala Gly Gln Pro Phe Asn Gly Glu Trp Pro Ala Asp Thr
100    105    110
Cys Val Arg Ile Met Thr Gly Ala Pro Val Pro Thr Gly Cys Glu Ala
115    120    125
Val Val Met Gln Glu Glu Thr Glu Gln Thr Asp Asp Gly Val Arg Phe
130    135    140
Thr Ala Ser Val Lys Ala Gly Gln Asn Ile Arg His Ile Gly Glu Asp
145    150    155    160
Ile Thr Leu Gly Ala Thr Val Phe Ala Ala Gly Gln Lys Leu Thr Val
165    170    175
Ala Glu Leu Pro Val Leu Ala Ser Leu Gly Ile Ala Glu Ile Asp Val
180    185    190
Val Arg Lys Val Arg Val Ala Val Phe Ser Thr Gly Asp Glu Leu Gln
195    200    205
Leu Pro Gly Gln Pro Leu Asn Glu Gly Gln Ile Tyr Asp Thr Asn Arg
210    215    220
Leu Ala Val His Leu Met Leu Glu Gln Leu Gly Cys Glu Val Ile Asn
225    230    235    240
Leu Gly Ile Ile Pro Asp Asp Pro Gln Lys Leu Arg Ala Ala Phe Ile
245    250    255
Asp Ala Asp Ala Ser Ala Asp Val Val Ile Ser Ser Gly Gly Val Ser
260    265    270
Val Gly Glu Ala Asp Tyr Thr Lys Asn Leu Leu Glu Glu Leu Gly Glu
275    280    285
Ile Ala Phe Trp Lys Leu Ala Ile Lys Pro Gly Lys Pro Phe Ala Phe
290    295    300
Gly Lys Leu Pro His Ser Trp Phe Cys Gly Leu Pro Gly Asn Pro Val
305    310    315    320
Ser Ala Ala Leu Thr Phe Tyr Gln Leu Val Ile Pro Leu Leu Ala Lys
325    330    335
Leu Ser Gly Asn Asn Ala Ser Pro Leu Pro Glu Arg Val Arg Val Arg
340    345    350
Ala Ala Thr Arg Leu Lys Lys Ser Pro Gly Arg Leu Asp Phe Gln Arg
355    360    365
Gly Ile Leu Ala Arg Asn Ala Asp Gly Glu Leu Glu Val Ser Thr Thr
370    375    380
Gly His Gln Gly Ser His Ile Phe Ser Ser Phe Ser Gln Gly Asn Cys
385    390    395    400
Phe Ile Val Leu Glu Arg Asp Arg Gly His Val Glu Ala Gly Glu Trp
405    410    415
Val Glu Val Glu Arg Phe Asn His Leu Phe Gly Gly
420    425

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<210> 8250

<211> 485

<212> PRT

<213> Enterobacter cloacae

<400> 8250

Thr Lys Ser Ala Pro Ala Arg Thr Pro Lys Pro Leu Ala Gly Ser Pro
 1 5 10 15
 Leu Tyr Gln Asn Val Thr Ile Gly Gly Gln Lys Leu Val Asn Gly Glu
 20 25 30
 Pro Met Asp Ala Val Asn Pro Leu Ser Tyr Ala Ile Leu Glu Ser Cys
 35 40 45
 Gly Arg Leu Arg Ser Thr Gln Pro Asn Leu Ser Val Arg Tyr His Ala
 50 55 60
 Gly Met Ser Asn Asp Phe Leu Asp Ala Cys Val Gln Val Ile Arg Cys
 65 70 75 80
 Gly Phe Gly Met Pro Ala Phe Asn Asn Asp Glu Ile Val Ile Pro Glu
 85 90 95
 Phe Ile Lys Leu Gly Val Glu Arg Asp Asp Ala Tyr Asp Tyr Ala Ala
 100 105 110
 Ile Gly Cys Ile Glu Thr Ala Val Gly Gly Lys Trp Gly Tyr Arg Cys
 115 120 125
 Thr Gly Met Ser Phe Ile Asn Phe Ala Arg Val Met Leu Ala Ala Leu
 130 135 140
 Glu Gly Gly Arg Asp Ala Thr Ser Gly Lys Val Phe Leu Pro Gln Glu
 145 150 155 160
 Lys Ala Leu Ser Ala Gly Asn Phe Asp Asn Phe Glu Glu Val Met Ala
 165 170 175
 Ala Trp Asp Thr Gln Ile Arg Tyr Tyr Thr Arg Lys Ser Ile Glu Ile
 180 185 190
 Glu Tyr Val Val Asp Thr Met Leu Glu Glu Asn Val His Asp Ile Leu
 195 200 205
 Cys Ser Ala Leu Val Asp Asp Cys Ile Glu Arg Ala Lys Ser Ile Lys
 210 215 220
 Gln Gly Gly Ala Lys Tyr Asp Trp Val Ser Gly Leu Gln Val Gly Ile
 225 230 235 240
 Ala Asn Leu Gly Asn Ser Leu Ala Ala Val Lys Lys Leu Val Phe Asp
 245 250 255
 Gln Gly Val Ile Gly Gln Gln Gln Leu Ala Ala Ala Leu Ala Asp Asp
 260 265 270
 Phe Glu Gly Leu Thr His Glu Gln Leu Arg Gln Arg Leu Ile Asn Gly
 275 280 285
 Ala Pro Lys Tyr Gly Asn Asp Asp Asp Ser Val Asp Leu Leu Leu Thr
 290 295 300
 Arg Ala Tyr Glu Thr Tyr Ile Glu Glu Leu Lys Gln Tyr His Asn Pro
 305 310 315 320
 Arg Tyr Gly Arg Gly Pro Ile Gly Gly Asn Tyr Tyr Ala Gly Thr Ser
 325 330 335
 Ser Ile Ser Ala Asn Val Pro Phe Gly Ala Ala Thr Met Ala Thr Pro
 340 345 350
 Asp Gly Arg Lys Ala His Thr Pro Leu Ala Glu Gly Ala Ser Pro Ala
 355 360 365
 Ser Gly Thr Asp His Leu Gly Pro Thr Ala Val Ile Gly Ser Val Gly
 370 375 380
 Lys Leu Pro Thr Glu Ala Ile Leu Gly Gly Val Leu Leu Asn Gln Lys
 385 390 395 400
 Leu Asn Pro Ser Thr Leu Glu Asn Asp Ser Asp Arg Gln Lys Leu Met
 405 410 415
 Val Leu Leu Arg Thr Phe Phe Glu Val His Lys Gly Trp His Ile Gln
 420 425 430
 Tyr Asn Ile Val Ser Arg Glu Thr Leu Leu Glu Ala Lys Lys His Pro
 435 440 445
 Asp Gln Tyr Arg Asp Leu Val Val Arg Val Ala Gly Tyr Ser Ala Phe
 450 455 460
 Phe Thr Ala Leu Ser Pro Asp Ala Gln Asp Asp Ile Ile Ala Arg Thr
 465 470 475 480
 Glu His Thr Leu

485

<210> 8251

<211> 431

<212> PRT

<213> *Enterobacter cloacae*

<400> 8251

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Thr Phe Leu Leu Ser Asn Glu Arg Cys Glu Ala Val Met Thr Phe Thr
1      5      10      15
Ser Glu Thr Leu Pro Ala Asp His Lys Ala Ala Ile Arg Gln Leu Lys
20      25      30
Arg Glu Leu Arg Ala Gln Ile Gly Asp Val Gln Ala Val Phe Asp Lys
35      40      45
Leu Ser Asp Ser Ile Ala Thr Arg Val Ala Glu Ile Asn Ala Leu Lys
50      55      60
Asn Lys Gly Glu Ser Val Trp Pro Val Ile Pro Phe Asn Asp Val Lys
65      70      75      80
Asn Gly Thr Ile Thr Asp Ala Gln Arg Glu Ala Val Lys Arg Arg Gly
85      90      95
Cys Ala Val Ile Lys Gly His Phe Pro Arg Glu Gln Ala Leu Ala Trp
100      105      110
Asp Gln Ser Met Leu Asp Tyr Leu Asp Leu Asn Lys Phe Asp Glu Val
115      120      125
Tyr Lys Gly Pro Gly Asp Asn Phe Phe Gly Thr Leu Thr Ala Ser Arg
130      135      140
Pro Glu Ile Tyr Pro Ile Tyr Trp Ser Gln Ala Gln Met Gln Ala Arg
145      150      155      160
Gln Ser Glu Glu Met Ala Gln Val Gln Ser Phe Leu Asn Arg Leu Trp
165      170      175
Thr Phe Glu Ser Asn Gly Lys Gln Trp Phe Asp Pro Asp Val Ser Val
180      185      190
Ile Tyr Pro Asp Arg Ile Arg Arg Arg Pro Pro Gly Thr Thr Ser Lys
195      200      205
Gly Leu Gly Ala His Thr Asp Ser Gly Ala Leu Glu Arg Trp Leu Leu
210      215      220
Pro Ala Tyr Gln Gln Val Phe Ala Arg Val Phe Asp Gly Asn Val Glu
225      230      235      240
Lys Tyr Asp Pro Trp Asn Ala Ala His Asp Thr Glu Val Glu Glu Tyr
245      250      255
Thr Val Asp Asn Thr Thr Lys Cys Ser Val Phe Arg Thr Phe Gln Gly
260      265      270
Trp Thr Ala Leu Ser Asp Met Ile Pro Gly Gln Gly Leu Leu His Val
275      280      285
Val Pro Ile Pro Glu Ala Met Ala Tyr Ile Leu Leu Arg Pro Leu Leu
290      295      300
Asp Asp Val Pro Glu Asp Glu Leu Cys Gly Val Ala Pro Gly Arg Val
305      310      315      320
Leu Pro Val Ser Glu Lys Trp His Pro Leu Leu Ile Glu Ala Leu Thr
325      330      335
Ser Ile Pro Ala Leu Glu Ala Gly Asp Ser Val Trp Trp His Cys Asp
340      345      350
Val Ile His Ser Val Ala Pro Val Asp Asn Gln Gln Gly Trp Gly Asn
355      360      365
Val Met Tyr Ile Pro Ala Ala Pro Met Cys Glu Lys Asn Leu Ala Tyr
370      375      380
Ala Lys Lys Val Lys Glu Ala Leu Glu Thr Gly Ala Ser Pro Gly Asp
385      390      395      400
Phe Pro Arg Glu Asp Tyr Glu Lys Thr Trp Gln Asp Arg Phe Thr Val
405      410      415
Asn Asp Leu Asn Ile His Gly Lys Arg Ala Leu Gly Met Val

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420

425

430

<210> 8252

<211> 629

<212> PRT

<213> Enterobacter cloacae

<400> 8252

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Ile Arg Gly His Cys Val Pro His Arg Glu Glu Leu Asp Asn Cys Glu
1          5          10          15
Val Leu Ala Val His Gln Leu Asn Ile Ala Phe Gln Glu Glu Arg Gln
20          25          30
Phe Ile Pro Ala Val Gln Asn Leu Ser Phe Ser Leu Arg Arg Gly Glu
35          40          45
Thr Leu Ala Ile Val Gly Glu Ser Gly Ser Gly Lys Ser Val Thr Ala
50          55          60
Leu Ala Leu Met Arg Leu Leu Glu Gln Thr Gly Gly Gln Val Thr Ser
65          70          75          80
Glu Arg Met Leu Leu Arg Arg Arg Asn Arg Gln Val Ile Asp Leu Asn
85          90          95
Glu Leu Ser Ala Ser Arg Met Gln Gly Val Arg Gly Ala Asp Ile Ala
100         105         110
Met Ile Phe Gln Glu Pro Met Thr Ser Leu Asn Pro Val Phe Pro Val
115         120         125
Gly Glu Gln Ile Ala Glu Ser Ile Arg Leu His Gln Gly Leu Ser Gly
130         135         140
Asp Glu Ala Leu Asn Glu Ala Lys Arg Met Leu Glu Leu Val Arg Ile
145         150         155         160
Pro Glu Ala His Ala Ile Leu Ser Arg Tyr Pro His Gln Leu Ser Gly
165         170         175
Gly Met Arg Gln Arg Val Met Ile Ala Met Ala Leu Ser Cys Arg Pro
180         185         190
Ala Val Leu Ile Ala Asp Glu Pro Thr Thr Ala Leu Asp Val Thr Ile
195         200         205
Gln Ala Gln Ile Leu Gln Leu Ile Lys Val Leu Gln Gln Glu Met Glu
210         215         220
Met Gly Val Ile Phe Ile Thr His Asp Met Gly Val Val Ala Asp Ile
225         230         235         240
Ala Asp Arg Val Leu Val Met His Gln Gly Asn Ala Val Glu Thr Gly
245         250         255
Thr Val Glu Gln Val Phe His Ala Pro Val His Ser Tyr Thr Lys Ala
260         265         270
Leu Leu Ala Ala Val Pro Arg Leu Gly Ala Met Asn Gly Ser Asp Phe
275         280         285
Pro Arg Arg Phe Pro Leu Ile Ser Gln Thr Glu Gln Gly Lys Gln Glu
290         295         300
Asp Glu Thr Glu Gln Asp Thr Val Val Pro Gly Arg Pro Ile Leu Glu
305         310         315         320
Val Arg Asp Leu Val Thr Arg Phe Pro Leu Arg Ser Gly Ile Leu Asn
325         330         335
Arg Val Lys Arg Glu Val His Ala Val Glu Asn Val Ser Phe Asp Leu
340         345         350
Trp Pro Gly Glu Thr Leu Ala Leu Val Gly Glu Ser Gly Cys Gly Lys
355         360         365
Ser Thr Thr Gly Arg Ala Leu Leu Arg Leu Val Ala Ser Gln Glu Gly
370         375         380
Ser Ile Thr Phe Asn Gly Glu Arg Ile Asp Thr Leu Pro Asn Ser Lys
385         390         395         400
Leu Gln Ala Val Arg Arg Asp Ile Gln Phe Ile Phe Gln Asp Pro Tyr
405         410         415
Ala Ser Leu Asp Pro Arg His Thr Val Gly Tyr Ser Ile Met Glu Pro

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420 425 430
 Leu Arg Val His Asn Leu Leu Asp Gly Glu Asp Ala Gln Arg Arg Val
 435 440 445
 Ala Trp Leu Leu Glu Arg Val Gly Leu Lys Pro Glu His Ala Trp Arg
 450 455 460
 Tyr Pro His Glu Phe Ser Gly Glu Arg Gln Arg Ile Cys Ile Ala
 465 470 475 480
 Arg Ala Leu Ala Leu Asn Pro Lys Val Val Ile Ala Asp Glu Ser Val
 485 490 495
 Ser Ala Leu Asp Val Ser Ile Arg Ala Gln Ile Ile Asn Leu Leu Leu
 500 505 510
 Asp Leu Gln Arg Asp Leu Gly Ile Ala Phe Leu Phe Ile Ser His Asp
 515 520 525
 Met Ala Val Val Glu Arg Ile Ser His Arg Val Ala Val Met Tyr Met
 530 535 540
 Gly Gln Ile Val Glu Ile Gly Pro Arg Arg Ala Val Phe Glu Asn Pro
 545 550 555 560
 Gln His Pro Tyr Thr Arg Lys Leu Met Ala Ala Val Pro Val Ala Asp
 565 570 575
 Pro Glu His Arg His Ala Gln Arg Val Leu Leu Gln Asp Glu Met Pro
 580 585 590
 Ser Asn Ile Arg Lys Arg Gly Glu Thr Leu Glu Arg Val Ala Leu Arg
 595 600 605
 Glu Val Gly Pro Gly His Phe Val Ala Pro Pro Arg Gln Gly Asn Ala
 610 615 620
 Phe Ser Arg Leu
 625

<210> 8253
 <211> 138
 <212> PRT
 <213> Enterobacter cloacae

<400> 8253
 Gly Asn Met Ala Asp Arg Gly Gly Asn Ser Met Ser Val Asp Arg Leu
 1 5 10 15
 Lys Arg Asp Leu Leu Asn Lys Leu Ile Asn Ala Arg Ile Asp Leu Ala
 20 25 30
 Ala Tyr Leu Gln Leu Arg Lys Ala Lys Gly Tyr Met Ser Val Ser Glu
 35 40 45
 Ser Glu Asn Leu Arg Asp Asn Phe Phe Glu Leu Cys Asn Phe Met Arg
 50 55 60
 Glu Lys Ala Pro Ile Leu Lys Ala His Tyr Ala Glu Ser Glu Leu Val
 65 70 75 80
 Ala Leu Arg Arg Ala Ala Glu Val Leu Ser Ile Ala Gly Val Cys Leu
 85 90 95
 Met Asn Gly Arg His Asp Cys Pro Asn Phe Ile Ala Val Asn Ala Asp
 100 105 110
 Lys Leu Glu Asn Cys Leu Thr Thr Leu Ala Leu Cys Ile Met Cys Leu
 115 120 125
 Asn Lys Pro Glu Thr Leu Ala Arg His
 130 135

<210> 8254
 <211> 230
 <212> PRT
 <213> Enterobacter cloacae

<400> 8254
 Val Gln Ala Lys Phe Glu Gly Asp Ile Met Glu Leu Tyr Leu Asp Thr
 1 5 10 15

Ser Asp Val Ala Ala Val Lys Lys Leu Ala Arg Ile Phe Pro Leu Ala
 20 25 30
 Gly Val Thr Thr Asn Pro Ser Ile Val Ala Ala Gly Lys Thr Pro Leu
 35 40 45
 Glu Glu Leu Leu Pro Ala Leu His Asp Ala Leu Gly Gly Lys Gly Arg
 50 55 60
 Leu Phe Ala Gln Val Met Ala Lys Thr Ala Glu Gly Met Val Glu Asp
 65 70 75 80
 Ala Arg Lys Leu Arg Ala Ile Ile Asn Asp Leu Val Val Lys Val Pro
 85 90 95
 Val Thr Ala Glu Gly Leu Ala Ala Ile Lys Met Leu Lys Ala Glu Gly
 100 105 110
 Ile Pro Thr Leu Gly Thr Ala Val Tyr Gly Ala Ala Gln Gly Met Leu
 115 120 125
 Ser Ala Leu Ala Gly Ala Glu Tyr Val Ala Pro Tyr Val Asn Arg Val
 130 135 140
 Asp Ala Gln Gly Gly Asp Gly Ile Gln Thr Val Val Glu Met Gln Gln
 145 150 155 160
 Leu Leu Thr Leu His Ala Pro Gln Ser Lys Val Leu Ala Ala Ser Phe
 165 170 175
 Lys Thr Pro Arg Gln Ala Leu Asp Cys Leu Leu Ala Gly Cys Glu Ser
 180 185 190
 Ile Thr Leu Pro Leu Asp Val Ala Gln Gln Phe Ile Thr Ser Pro Ala
 195 200 205
 Val Asp Ala Ala Ile Val Lys Phe Glu Gln Asp Trp Gln Gly Ala Phe
 210 215 220
 Gly Arg Thr Ser Ile
 225 230

<210> 8255

<211> 315

<212> PRT

<213> *Enterobacter cloacae*

<400> 8255

Cys Glu Met Ser Lys Ala Val Ile Ala Ile His Gly Gly Ala Gly Ala
 1 5 10 15
 Ile Thr Arg Ala Gln Leu Ser Pro Glu Gln Glu Lys Arg Tyr Ile Asp
 20 25 30
 Ala Leu Asn Ala Ile Val Glu Thr Gly Gln Arg Met Leu Glu Ala Gly
 35 40 45
 Asp Ser Ala Leu Asp Val Val Thr Glu Ala Val Arg Leu Leu Glu Glu
 50 55 60
 Cys Pro Leu Phe Asn Ala Gly Ile Gly Ser Val Phe Thr Arg Asp Glu
 65 70 75 80
 Thr His Glu Leu Asp Ala Cys Val Met Asp Gly Val Thr Leu Lys Ala
 85 90 95
 Gly Ala Val Ala Gly Val Ser Arg Leu Arg Asn Pro Val Leu Ala Ala
 100 105 110
 Arg Leu Val Met Glu Gln Ser Pro His Val Leu Leu Ala Gly Ala Gly
 115 120 125
 Ala Glu Lys Phe Ala Val Glu His Gly Met Asp Thr Val Ser Pro Glu
 130 135 140
 Leu Phe Ser Thr Glu Glu Arg Tyr Arg Gln Leu Leu Glu Ala Arg Thr
 145 150 155 160
 Ala Gly Met Thr Gln Leu Asp His Ala Ala Pro Leu Asp Glu Arg Ser
 165 170 175
 Lys Met Gly Thr Val Gly Ala Val Ala Leu Asp Lys Ala Gly Asn Leu
 180 185 190
 Ala Ala Ala Thr Ser Thr Gly Gly Met Thr Asn Lys Leu Pro Gly Arg
 195 200 205

Val Gly Asp Ser Pro Leu Pro Gly Ala Gly Cys Tyr Ala Asn Asn Ala
 210 215 220
 Thr Ala Ala Val Ser Cys Thr Gly Thr Gly Glu Val Phe Ile Arg Ala
 225 230 235 240
 Leu Ala Ala Tyr Asp Ile Thr Ala Leu Met Asp Tyr Gly Gly Leu Ser
 245 250 255
 Leu Ser Glu Ala Cys Glu Arg Val Val Met Glu Lys Leu Pro Ala Leu
 260 265 270
 Gly Gly Ile Gly Gly Leu Ile Ala Val Asp Arg Glu Gly Asn Val Ala
 275 280 285
 Leu Pro Phe Asn Ser Glu Gly Met Tyr Arg Ala Trp Gly Tyr Ala Gly
 290 295 300
 Asp Ala Pro Ser Thr Gly Ile Tyr Arg Glu
 305 310 315

<210> 8256

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 8256

Arg Gly Phe Lys Ile Lys Leu Met Leu Asn Tyr Val Cys Lys Arg Leu
 1 5 10 15
 Leu Gly Leu Ile Pro Thr Leu Leu Ile Val Ala Val Leu Val Phe Leu
 20 25 30
 Phe Val His Met Leu Pro Gly Asp Pro Ala Arg Leu Ile Ala Gly Pro
 35 40 45
 Glu Ala Asp Ala Thr Val Ile Glu Leu Val Arg Lys Gln Leu Gly Leu
 50 55 60
 Asp Gln Pro Leu Tyr Arg Gln Phe Leu Arg Tyr Ile Gly Asn Val Leu
 65 70 75 80
 Gln Gly Asp Phe Gly Ile Ser Met Val Ser Arg Arg Pro Val Ser Glu
 85 90 95
 Glu Ile Ala Ser Arg Phe Met Pro Thr Phe Trp Leu Thr Ile Ala Ser
 100 105 110
 Met Ser Trp Ala Val Val Phe Gly Leu Gly Ala Gly Ile Val Ala Ala
 115 120 125
 Val Trp Arg Asn Arg Trp Pro Asp Lys Leu Gly Met Ala Leu Ala Val
 130 135 140
 Thr Gly Ile Ser Phe Pro Ala Phe Ala Leu Gly Met Leu Leu Met Gln
 145 150 155 160
 Ile Phe Ser Val Glu Leu Gly Trp Leu Pro Thr Val Gly Ala Asp Thr
 165 170 175
 Trp Lys His Tyr Ile Leu Pro Ser Met Thr Leu Gly Ala Ala Val Ala
 180 185 190
 Ala Val Met Ala Arg Phe Thr Arg Ala Ser Phe Val Asp Val Leu Ser
 195 200 205
 Glu Asp Tyr Ile Arg Thr Ala Arg Ala Lys Gly Val Ser Glu Lys Trp
 210 215 220
 Val Ile Leu Lys His Gly Phe Arg Asn Ala Met Ile Pro Val Val Thr
 225 230 235 240
 Met Met Gly Leu Gln Phe Gly Phe Leu Leu Gly Gly Ser Ile Val Val
 245 250 255
 Glu Lys Val Phe Asn Trp Pro Gly Leu Gly Arg Leu Leu Val Asp Ser
 260 265 270
 Val Asp Met Arg Asp Tyr Pro Val Ile Gln Ala Glu Val Leu Leu Phe
 275 280 285
 Ser Leu Glu Phe Ile Leu Ile Asn Leu Val Val Asp Val Leu Tyr Ala
 290 295 300
 Ala Ile Asn Pro Ala Ile Arg Tyr Lys
 305 310

<210> 8257
 <211> 384
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8257
 Ser Leu Ser His Met Ser Ile Lys Glu Cys Val Met Pro Arg Ser Ser
 1 5 10 15
 Leu Ile Phe Leu Pro Val Leu Leu Phe Pro Leu Ser Leu Leu Ala Ala
 20 25 30
 Pro Glu Thr Val Lys Val Asp Val Leu Gln Thr Lys Leu Asp His Pro
 35 40 45
 Trp Ser Leu Ala Phe Leu Pro Asp Asn Lys Gly Leu Leu Ile Thr Leu
 50 55 60
 Lys Asp Gly Gln Leu Lys His Trp Gln Ala Gly Lys Gly Leu Ser Asp
 65 70 75 80
 Pro Ile Val Gly Val Pro Lys Val Trp Ala Ser Gly Gln Gly Gly Leu
 85 90 95
 Leu Asp Val Ala Leu Ala Pro Asp Phe Ala Gln Ser Arg Arg Val Trp
 100 105 110
 Leu Ser Phe Ala Glu Ala Gly Asn Asp Gly Lys Ala Gly Thr Ala Val
 115 120 125
 Gly Tyr Gly Arg Leu Ser Asp Asp Leu Ser Arg Ile Glu Gly Phe Gln
 130 135 140
 Val Val Phe Arg Gln Met Pro Lys Leu Ser Thr Gly Asn His Phe Gly
 145 150 155 160
 Gly Arg Leu Val Phe Asp Gly Lys Gly His Leu Phe Ile Gly Leu Gly
 165 170 175
 Glu Asn Asn Gln Arg Pro Thr Ala Gln Asp Leu Asp Lys Leu Gln Gly
 180 185 190
 Lys Val Val Arg Leu Thr Glu Asp Gly Lys Val Pro Pro Asp Asn Pro
 195 200 205
 Phe Val Asn Thr Ala Gly Ala Arg Pro Glu Ile Trp Ser Tyr Gly Ile
 210 215 220
 Arg Asn Pro Gln Gly Met Ala Met Asn Pro Trp Ser Asp Thr Leu Trp
 225 230 235 240
 Leu Asn Glu His Gly Pro Arg Gly Gly Asp Glu Ile Asn Ile Pro Glu
 245 250 255
 Lys Gly Lys Asn Tyr Gly Trp Pro Leu Ala Thr His Gly Ile Asn Tyr
 260 265 270
 Ser Gly Leu Lys Ile Pro Glu Ala Lys Gly Glu His Val Glu Gly Thr
 275 280 285
 Glu Lys Pro Leu Phe Val Trp Lys Val Ser Pro Ala Val Ser Gly Met
 290 295 300
 Ala Phe Tyr Asn Ser Asp Val Phe Pro Gln Trp Lys Asn Lys Leu Phe
 305 310 315 320
 Ile Gly Ala Leu Lys Glu Lys Asp Val Ile Val Leu Ser Val Lys Gly
 325 330 335
 Asn Ser Val Thr Glu Asp Gly Arg Ile Leu Gly Asp Lys Asp Gln Arg
 340 345 350
 Ile Arg Asp Val Arg Val Gly Pro Asp Gly Tyr Leu Tyr Val Leu Thr
 355 360 365
 Asp Glu Thr Asp Gly Gln Leu Trp Lys Val Ser Pro Ser Gly Ser
 370 375 380

<210> 8258
 <211> 115
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8258

Cys Ala Ile Thr His Arg Phe Leu Arg His Gly Asp Cys Asp Val Ile
 1 5 10 15
 Phe Arg Met Asp Thr Arg Val Ala Phe Met Thr Gln Lys Thr Ser Ser
 20 25 30
 Leu Arg Ser Leu Ala Ala Gly Ser Ala Leu Leu Phe Leu Phe Ala Pro
 35 40 45
 Thr Leu His Ala Ala Glu Gln Thr Ala Pro Glu Ala Pro Pro Val Asp
 50 55 60
 Ala Arg Ala Trp Ile Leu Met Asp Tyr Ala Ser Gly Lys Val Leu Ala
 65 70 75 80
 Glu Gly Asn Ala Asp Glu Lys Leu Asp Pro Ala Ser Leu Thr Lys Ile
 85 90 95
 Met Thr Ser Tyr Val Val Gly Val Phe Thr His Val Gly Arg Ser Ile
 100 105 110
 Arg Asp His
 115

<210> 8259

<211> 544

<212> PRT

<213> *Enterobacter cloacae*

<400> 8259

Cys Arg Val Tyr His Thr Phe Arg Arg Asn Leu Ser Val Leu Val Thr
 1 5 10 15
 Ser Asn Val Thr Met Gln Phe Gly Ser Lys Pro Leu Phe Glu Asn Ile
 20 25 30
 Ser Val Lys Phe Gly Gly Gly Asn Arg Tyr Gly Leu Ile Gly Ala Asn
 35 40 45
 Gly Ser Gly Lys Ser Thr Phe Met Lys Ile Leu Gly Gly Asp Leu Glu
 50 55 60
 Pro Thr Leu Gly Asn Val Ser Leu Asp Pro Asn Glu Arg Ile Gly Lys
 65 70 75 80
 Leu Arg Gln Asp Gln Phe Ala Phe Glu Glu Phe Thr Val Leu Asp Thr
 85 90 95
 Val Ile Met Gly His Ala Glu Leu Trp Glu Val Lys Gln Glu Arg Asp
 100 105 110
 Arg Ile Tyr Gly Leu Ala Glu Met Ser Glu Glu Asp Gly Tyr Lys Val
 115 120 125
 Ala Asp Leu Glu Thr Gln Tyr Gly Glu Met Asp Gly Tyr Ser Ala Glu
 130 135 140
 Ala Arg Ala Gly Glu Leu Leu Leu Gly Val Gly Ile Pro Val Glu Gln
 145 150 155 160
 His Tyr Gly Pro Met Ser Glu Val Ala Pro Gly Trp Lys Leu Arg Val
 165 170 175
 Leu Leu Ala Gln Ala Leu Phe Ser Asn Pro Asp Ile Leu Leu Leu Asp
 180 185 190
 Glu Pro Thr Asn Asn Leu Asp Ile Asp Thr Ile Arg Trp Leu Glu Gln
 195 200 205
 Thr Leu Asn Asp Arg Asp Ser Thr Met Ile Ile Ile Ser His Asp Arg
 210 215 220
 His Phe Leu Asn Met Val Cys Thr His Met Ala Asp Leu Asp Tyr Gly
 225 230 235 240
 Glu Leu Arg Val Tyr Pro Gly Asn Tyr Asp Glu Tyr Met Thr Ala Ala
 245 250 255
 Thr Gln Ala Arg Glu Arg Leu Leu Ala Asp Asn Ala Lys Lys Lys Ala
 260 265 270
 Gln Ile Ala Asp Leu Gln Ser Phe Val Ser Arg Phe Ser Ala Asn Ala
 275 280 285
 Ser Lys Ser Arg Gln Ala Thr Ser Arg Ala Arg Gln Ile Asp Lys Ile

290 295 300
 Lys Leu Glu Glu Val Lys Ala Ser Ser Arg Gln Asn Pro Phe Ile Arg
 305 310 315 320
 Phe Glu Gln Asp Lys Lys Leu Phe Arg Asn Ala Leu Glu Val Glu Ala
 325 330 335
 Leu Thr Lys Gly Phe Asp Glu Gly Pro Leu Phe Lys Asn Phe Asn Leu
 340 345 350
 Leu Leu Glu Val Gly Glu Lys Ile Ala Ile Leu Gly Ala Asn Gly Val
 355 360 365
 Gly Lys Ser Thr Met Leu Lys Thr Leu Val Gly Glu Leu Gln Pro Asp
 370 375 380
 Asn Gly Thr Val Lys Trp Ser Glu Asn Ala Gln Ile Gly Tyr Tyr Ala
 385 390 395 400
 Gln Asp His Glu Tyr Glu Phe Glu Asn Asp Leu Thr Val Phe Asp Trp
 405 410 415
 Met Ser Gln Trp Lys Gln Glu Gly Asp Asp Glu Gln Ala Val Arg Ser
 420 425 430
 Ile Leu Gly Arg Leu Leu Phe Ser Gln Asp Asp Ile Lys Lys Pro Ala
 435 440 445
 Lys Val Leu Ser Gly Gly Glu Lys Gly Arg Met Leu Phe Gly Lys Leu
 450 455 460
 Met Met Glu Lys Pro Asn Ile Leu Val Met Asp Glu Pro Thr Asn His
 465 470 475 480
 Leu Asp Met Glu Ser Ile Glu Ser Leu Asn Met Ala Leu Glu Met Tyr
 485 490 495
 Gln Gly Thr Leu Ile Phe Val Ser His Asp Arg Glu Phe Val Ser Ser
 500 505 510
 Leu Ala Thr Arg Val Ile Glu Ile Thr Pro Glu Arg Val Val Asp Phe
 515 520 525
 Thr Gly Asn Tyr Glu Asp Tyr Leu Arg Ser Lys Gly Ile Glu Ser
 530 535 540

<210> 8260

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 8260

His Thr Arg Tyr Glu Asn Phe Phe Ile Ser Gln Met Glu Pro Asp His
 1 5 10 15
 Lys Met Asp Lys Arg Leu Lys Ile Thr Glu Ile Ala Ala Arg Thr Gln
 20 25 30
 Leu Ser Ile Ser Thr Val Ser Arg Val Leu Ala Gly Lys Ala Asn Thr
 35 40 45
 Ser Glu Lys Ala Arg Ala Lys Val Leu Ala Cys Ala Arg Glu Leu Gly
 50 55 60
 Val Met Asp Gly Met Ala Ala Gly Arg Leu Leu Leu Asn Ser Leu Val
 65 70 75 80
 Val Phe Ala Pro Gln Arg Ala Phe Asp Glu Arg Ser Asp Ile Phe Tyr
 85 90 95
 Tyr Arg Val Ile Gln Ser Val Ser Lys Ala Leu Ala Ser His Glu Val
 100 105 110
 Arg Leu Arg Tyr Cys Ala Leu Glu Glu Asn Asp Ser Asp Ala Gln Leu
 115 120 125
 Phe Leu Ala Arg Met Asn Glu Pro Asp Thr Gln Ala Ala Ile Leu Leu
 130 135 140
 Gly Ile Asp Asp Pro His Ile His Asp Leu Ala Val Asp Val Gly Lys
 145 150 155 160
 Pro Cys Met Leu Ile Asn Cys Arg Asp Arg His Met Arg Leu Pro Ala
 165 170 175
 Val Ala Pro Asp His Arg Ala Ile Gly Glu Arg Ala Ala Glu Tyr Leu

180 185 190
 Phe Glu Met Gly His Arg Glu Val Met Asn Val Leu Cys Leu Arg Arg
 195 200 205
 Tyr Thr Met Glu Leu Arg Leu Ser Gly Ile Arg Asp Ala Trp Gln Ser
 210 215 220
 His Asn Leu Ala Phe Asn Asp Lys Arg Asp Leu Leu Val Val Pro Ser
 225 230 235 240
 Phe Ser Ala Arg Glu Thr Glu Gln Leu Val Ser Asp Trp Leu Asn Gln
 245 250 255
 Gln Gln Gly Lys Asp Leu Pro Thr Ala Phe Leu Val Gly Gly Asp Phe
 260 265 270
 Met Ala Ala Gly Thr Ile Ser Ala Leu Lys Asn His Gly Leu Arg Val
 275 280 285
 Pro Gln Asp Val Ser Val Met Ser Ile Asp Gly Phe Asn Leu Ala Ala
 290 295 300
 Ile Gln Asp Val Pro Leu Thr Ala Val His Val Pro Arg Asp Glu Leu
 305 310 315 320
 Gly Thr Glu Ala Val His Met Leu Gln Gln Arg Leu Met Arg Pro Asp
 325 330 335
 Ala Pro Val Gly Thr Leu Leu Leu Asn Gly Thr Leu Thr Val Arg Glu
 340 345 350
 Ser Val Arg Arg Ile Arg Gln Gly Lys Arg Arg Thr Ala Val Glu Arg
 355 360 365
 Glu Gly Leu Tyr Asp Ser
 370 375

<210> 8261
 <211> 541
 <212> PRT
 <213> Enterobacter cloacae

<400> 8261
 Gly Gly Ser Arg Ser Phe Cys Arg Thr Thr Ala Ser Gly Gln Cys Ile
 1 5 10 15
 Leu Ala Val Ile Thr Tyr Asn Arg Gln Glu Asn Thr Met Val Pro Phe
 20 25 30
 Val Ala Arg Gln Trp Leu Leu Ala Ala Ser Val Thr Ala Ala Leu Ala
 35 40 45
 Ala Ala Pro Ala Phe Ala Ala Lys Asp Val Val Val Ala Val Gly Ser
 50 55 60
 Asn Phe Thr Thr Leu Asp Pro Tyr Asp Ala Asn Asp Thr Leu Ser Gln
 65 70 75 80
 Ala Val Ala Lys Ser Phe Tyr Gln Gly Leu Phe Gly Leu Asp Arg Glu
 85 90 95
 Met Lys Leu Lys Asn Val Leu Ala Glu Gly Tyr Thr Val Ser Asp Asp
 100 105 110
 Gly Leu Val Tyr Thr Val Lys Leu Arg Thr Gly Val Lys Phe Gln Asp
 115 120 125
 Gly Thr Asp Phe Asn Ala Glu Ala Val Lys Ile Asn Leu Asp Arg Ala
 130 135 140
 Ser Asn Pro Glu Asn Gly Leu Lys Arg Tyr Asn Leu Tyr Lys Asn Ile
 145 150 155 160
 Ala Ser Thr Glu Ala Val Asp Pro Ala Thr Val Lys Ile Val Leu Lys
 165 170 175
 Glu Pro Phe Ser Ala Phe Ile Asn Ile Leu Ala His Pro Ala Thr Ala
 180 185 190
 Met Ile Ser Pro Ala Ala Leu Lys Lys Tyr Gly Lys Glu Ile Gly Phe
 195 200 205
 His Pro Val Gly Thr Gly Pro Tyr Glu Leu Leu Thr Trp Asn Gln Thr
 210 215 220
 Asp Phe Val Lys Val Lys Lys Phe Ala Gly Tyr Trp Gln Gln Gly Leu

225 230 235 240
 Pro Lys Leu Asp Thr Ile Thr Trp Arg Pro Val Val Asp Asn Asn Thr
 245 250 255
 Arg Ala Ala Met Leu Gln Thr Gly Glu Ala Gln Phe Ala Phe Pro Ile
 260 265 270
 Pro Tyr Glu Gln Ala Ala Leu Leu Ala Lys Asn Ser Lys Leu Glu Leu
 275 280 285
 Val Ala Ser Pro Ser Ile Met Gln Arg Tyr Ile Ser Met Asn Val Thr
 290 295 300
 Gln Lys Pro Phe Asp Asn Pro Lys Val Arg Glu Ala Ile Asn Tyr Ala
 305 310 315 320
 Ile Asn Arg Gln Ala Leu Val Lys Val Ala Phe Ala Gly Tyr Ala Thr
 325 330 335
 Pro Ala Thr Gly Val Met Pro Pro Ala Ile Glu Tyr Ala Gln Ser Tyr
 340 345 350
 Gln Pro Trp Pro Tyr Asp Pro Ala Lys Ala Arg Glu Leu Leu Lys Glu
 355 360 365
 Ala Gly Tyr Pro Asn Gly Phe Ser Thr Thr Leu Trp Ser Ser His Asn
 370 375 380
 His Ser Thr Ala Gln Lys Val Leu Gln Phe Thr Gln Gln Gln Leu Ala
 385 390 395 400
 Gln Val Gly Ile Lys Ala Arg Val Thr Ala Met Asp Ala Gly Gln Arg
 405 410 415
 Ala Ala Glu Val Glu Gly Lys Gly Gln Lys Glu Ser Gly Val Arg Met
 420 425 430
 Phe Tyr Thr Gly Trp Thr Ala Ser Thr Gly Glu Ala Asp Trp Ser Leu
 435 440 445
 Ser Pro Leu Phe Ala Ser Gln Asn Trp Pro Pro Thr Leu Phe Asn Thr
 450 455 460
 Ala Phe Tyr Ser Asn Pro Gln Val Asp Lys Asp Leu Ala Asp Ala Leu
 465 470 475 480
 Lys Thr Thr Lys Pro Glu Glu Lys Ala Arg Leu Tyr Lys Glu Ala Gln
 485 490 495
 Asp Ile Ile Trp Lys Glu Ser Pro Trp Val Pro Leu Val Val Glu Lys
 500 505 510
 Leu Val Ser Ala His Asn Lys Ala Leu Thr Gly Phe Tyr Ile Met Pro
 515 520 525
 Asp Thr Gly Phe Ser Phe Asp Asp Ala Asp Leu Lys
 530 535 540

<210> 8262

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 8262

Trp Trp Met Cys Cys Thr Pro Pro Leu Thr Arg Pro Ser Gly Ile Ser
 1 5 10 15
 Lys Met Arg Leu Leu Asn Trp Arg Arg Gln Ala Ile Leu Asn Ala Met
 20 25 30
 Pro Gly Ile Arg Pro Asp His Ile Arg Thr Pro Trp Ile Glu Phe Trp
 35 40 45
 Arg Arg Phe Arg Arg Gln Pro Val Ala Met Val Ala Gly Leu Phe Val
 50 55 60
 Leu Leu Leu Ile Leu Val Ala Ile Ile Ala Pro Trp Leu Ala Pro Phe
 65 70 75 80
 Asp Ala Glu Asn Tyr Phe Asp Tyr Asp Arg Leu Asn Asp Gly Pro Ser
 85 90 95
 Met Met His Trp Phe Gly Val Asp Ser Leu Gly Arg Asp Ile Phe Ser
 100 105 110
 Arg Val Leu Val Gly Ala Gln Ile Ser Leu Ala Ala Gly Val Phe Ala

115	120	125
Val Leu Met Gly Ala Ala Ile Gly Thr Val Leu Gly Leu Ala Ala Gly		
130	135	140
Tyr Tyr Glu Gly Trp Trp Asp Arg Ile Ile Met Arg Ile Cys Asp Val		
145	150	155
Leu Phe Ala Phe Pro Gly Ile Leu Leu Ala Ile Ala Val Val Ala Val		
165	170	175
Met Gly Ser Gly Met Ala Asn Val Ile Ile Ala Val Ala Val Phe Ser		
180	185	190
Ile Pro Ala Phe Ala Arg Leu Val Arg Gly Asn Thr Leu Val Leu Lys		
195	200	205
Gln Gln Thr Phe Ile Glu Ser Ala Arg Ser Met Gly Ala Ser Asp Ala		
210	215	220
Thr Ile Leu Phe Ser His Ile Leu Pro Gly Thr Val Ser Ser Ile Val		
225	230	235
Val Tyr Phe Thr Met Arg Ile Gly Val Ser Ile Ile Ser Ala Ala Ser		
245	250	255
Leu Ser Phe Leu Gly Leu Gly Ala Gln Pro Pro Thr Pro Glu Trp Gly		
260	265	270
Ala Met Leu Asn Glu Ala Arg Ala Asp Met Val Ile Ala Pro His Val		
275	280	285
Ala Ile Phe Pro Ser Leu Ala Ile Phe Leu Thr Val Leu Ala Phe Asn		
290	295	300
Leu Leu Gly Asp Gly Leu Arg Asp Ala Leu Asp Pro Arg Ile Lys Gly		
305	310	315

<210> 8263

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 8263

Phe Thr Gly Thr Asn Cys Pro Ala Ser Gly Lys Trp Thr Leu Met Ile	
1	5
Glu Leu Leu Leu Pro Gly Trp Leu Ala Gly Ile Met Leu Ala Cys Ala	
	20
Ala Gly Pro Leu Gly Ser Phe Val Val Trp Arg Arg Met Ser Tyr Phe	
	35
Gly Asp Thr Leu Ala His Ala Ser Leu Leu Gly Val Ala Phe Gly Leu	
	50
Leu Leu Asp Val Asn Pro Phe Tyr Ala Val Ile Val Val Thr Leu Leu	
	65
Leu Ala Ala Gly Leu Val Trp Leu Glu Lys Arg Pro His Leu Ala Ile	
	85
Asp Thr Leu Leu Gly Ile Met Ala His Ser Ala Leu Ser Leu Gly Leu	
	100
Val Val Val Ser Leu Met Ser Asn Ile Arg Val Asp Leu Met Ala Tyr	
	115
Leu Phe Gly Asp Leu Leu Ala Val Thr Pro Glu Asp Leu Ile Ser Ile	
	130
Ala Ile Gly Val Ala Val Val Leu Gly Ile Leu Leu Trp Gln Trp Arg	
	145
Ser Leu Leu Ala Met Thr Val Ser Pro Asp Leu Ala Phe Val Asp Gly	
	165
Val Lys Leu Gln Arg Val Lys Leu Leu Leu Met Leu Val Thr Ala Leu	
	180
Thr Ile Gly Val Ala Met Lys Phe Val Gly Ala Leu Ile Ile Thr Ser	
	195
Leu Leu Ile Ile Pro Ala Ala Thr Ala Arg Arg Phe Ala Arg Thr Pro	

210 215 220
 Glu Gln Met Ala Gly Ile Ala Val Ile Ile Gly Met Ile Ala Val Thr
 225 230 235 240
 Gly Gly Leu Thr Phe Ser Ala Phe Tyr Asp Thr Pro Ala Gly Pro Ser
 245 250 255
 Val Val Leu Cys Ala Ala Val Leu Phe Ile Phe Ser Met Met Lys Lys
 260 265 270
 Thr Ala Gln
 275

<210> 8264

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 8264

His Cys Thr Asn Asn Gln Tyr Lys Phe Ser Leu Lys Ile Gln Ser Phe
 1 5 10 15
 Pro Glu Val Phe Met Phe Val Glu Leu Val Tyr Asp Lys Arg Asn Val
 20 25 30
 Asp Gly Leu Val Gly Ala Arg Glu Ile Ile Leu Ala Glu Leu Thr Lys
 35 40 45
 Arg Val His Gln Ile Phe Pro Asp Ala Glu Val Arg Val Lys Pro Met
 50 55 60
 Gln Ala Asn Gly Leu Asn Ser Asp Ala Ser Lys Ser Asp Arg Glu Lys
 65 70 75 80
 Leu Asn Arg Met Leu Glu Glu Met Phe Glu Asp Ala Asn Met Trp Leu
 85 90 95
 Val Asn Asp
 100

<210> 8265

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 8265

Ile Asp Met Thr Thr Leu Val Ser Leu Glu Asn Val Ser Val Ser Phe
 1 5 10 15
 Gly Gln Arg Arg Val Leu Ser Asp Val Ser Leu Asn Leu Lys Pro Gly
 20 25 30
 Lys Ile Leu Thr Leu Leu Gly Pro Asn Gly Ala Gly Lys Ser Thr Leu
 35 40 45
 Val Arg Val Val Leu Gly Leu Val Ala Pro Asp Ala Gly Val Ile Val
 50 55 60
 Arg Glu Asp Lys Leu Arg Ile Gly Tyr Val Pro Gln Lys Leu His Leu
 65 70 75 80
 Asp Ala Thr Leu Pro Leu Thr Val Ser Arg Phe Leu Arg Leu Arg Pro
 85 90 95
 Gly Thr Arg Lys Ala Asp Ile Leu Pro Ala Leu Lys Arg Val Gln Ala
 100 105 110
 Gly His Leu Val Glu Ala Pro Leu Gln Lys Leu Ser Gly Gly Glu Thr
 115 120 125
 Gln Arg Val Leu Leu Ala Arg Ala Leu Leu Ser Ser Pro Gln Leu Leu
 130 135 140
 Val Leu Asp Glu Pro Thr Gln Gly Val Asp Val Asn Gly Gln Val Ala
 145 150 155 160
 Leu Tyr Asp Leu Ile Asp Gln Leu Arg Arg Glu Leu Asn Cys Ala Val
 165 170 175
 Leu Met Val Ser His Asp Leu His Leu Val Met Ala Lys Thr Asp Glu
 180 185 190

Val Leu Cys Leu Asn His His Ile Cys Cys Ser Gly Thr Pro Glu Val
 195 200 205
 Val Ser Met His Pro Glu Phe Ile Ser Met Phe Gly His Arg Gly Ala
 210 215 220
 Glu Gln Leu Gly Ile Tyr Arg His Asn His Asn His Arg His Asp Leu
 225 230 235 240
 Gln Gly Arg Ile Val Leu Arg Arg Gly Asn Gly His Ser
 245 250

<210> 8266

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 8266

Lys Ser Asn His Leu Thr Gly Ala Thr Met Phe Thr Leu Asp Ala Thr
 1 5 10 15
 Lys Thr Ala Leu Val Val Ile Asp Leu Gln Gly Ile Leu Pro Phe
 20 25 30
 Ala Gly Gly Pro His Thr Ala Asp Asp Val Val Ser Arg Ala Ala Arg
 35 40 45
 Leu Ala Glu Lys Cys Arg Ala Ser Gly Ser Pro Val Val Met Val Arg
 50 55 60
 Val Gly Trp Ser Ala Asp Phe Ala Glu Ala Leu Lys Gln Pro Val Asp
 65 70 75 80
 Ala Gln Ala Pro Ala Gln Ala Leu Pro Asp Asn Trp Trp Thr Tyr Pro
 85 90 95
 Val Ser Leu Gly Lys Arg Asp Ser Asp Ile Glu Val Thr Lys Arg Gln
 100 105 110
 Trp Gly Ala Phe Tyr Gly Thr Asp Leu Glu Leu Gln Leu Arg Arg Arg
 115 120 125
 Gly Ile Asp Thr Ile Ile Leu Cys Gly Ile Ser Thr Asn Ile Gly Val
 130 135 140
 Glu Ser Thr Ala Arg Asn Ala Trp Glu Leu Gly Phe Asn Leu Val Ile
 145 150 155 160
 Ala Glu Asp Ala Cys Ser Ala Ala Ser Ala Asp Gln His Gln Cys Ser
 165 170 175
 Met Thr His Ile Phe Pro Arg Ile Gly Arg Val Arg Ser Thr Asp Glu
 180 185 190
 Ile Leu Ser Ala Leu
 195

<210> 8267

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 8267

Ile Lys Val Gly Leu Gly Asp Glu Val Thr Ala Asn Phe Ala Ser Leu
 1 5 10 15
 Glu Ile Gly Ala Lys Lys Pro Ser Ser Ala Ser Phe Val Asp Phe His
 20 25 30
 Phe Leu Gly Thr Asn Asp Tyr Asp Gly Arg Ile Leu Cys Ser Ser Gly
 35 40 45
 Ile Ser Gly Thr Ala Gly Ala Gly Ala Met Thr Tyr Tyr Gly Gly Ser
 50 55 60
 His Arg Phe Val Gly Ser Val Ser Phe Asp His Ser Ala Thr Phe Asn
 65 70 75 80
 Ser Ser Val Asp Ala Lys Gly Ile Val Ala Gly Val Thr Ser Leu Asn
 85 90 95
 Val Arg Ala Ser Ser Asp Thr Gln Tyr Ser His Val Trp Phe Tyr Gly

100 105 110
 Ala Ser Gly Pro Ser Arg Gly Val Ile Tyr Ala Val Lys Asp Gly Ser
 115 120 125
 Ile Arg Leu Arg Pro Asp Asn Asn Asp Asn Gly Gly Ala Asn Gly Tyr
 130 135 140
 Ser Phe Ser Phe Gly Ala Asp Gly Lys Phe Thr Cys Val Thr Met Asn
 145 150 155 160
 Gln Thr Ser Asp Gly Arg Val Lys Phe Asp Lys Glu Pro Val Ser Lys
 165 170 175
 Ala Leu Glu Lys Ile Cys Ser Leu Thr Gly Tyr Thr Phe Gly Ile Gln
 180 185 190
 Leu Thr Glu Ser Glu Ser Val Arg Ser Ala Gly Ile Ile Ala Gln Asp
 195 200 205
 Leu Glu Lys Val Leu Pro Val Ala Val Ser Ser Gly Gly Thr Gly Thr
 210 215 220
 Thr Pro Ala Gly Glu Glu Ile Asn Asp Leu Lys Thr Val Asp Tyr Ser
 225 230 235 240
 Ala Met Ser Ala Leu Tyr Val Glu Ala Ile Lys Glu Leu Thr Glu Arg
 245 250 255
 Leu Lys Ile Ile Glu Lys Glu Leu Ala Asp Leu Arg Gly Ala Thr Val
 260 265 270
 Val

<210> 8268
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 8268
 Pro Val Lys Gly Ile Thr Gly Ala Val Leu Arg Leu Ile Val Leu Leu
 1 5 10 15
 Ala Asp Ser Val Asp Leu Asp Ala Ala Phe Leu Ser Ala Asp Gln Gly
 20 25 30
 Cys Ser Gly Ala Tyr Gly Leu Leu Leu Asn Asn Ala Ser Ala Thr
 35 40 45
 Gly Glu Gln Tyr Arg Tyr Arg Gln Ala Lys Asn His Ile Phe His Ser
 50 55 60
 Gly Tyr Ile Pro Gly Arg Ser
 65 70

<210> 8269
 <211> 132
 <212> PRT
 <213> Enterobacter cloacae

<400> 8269
 Arg Thr Gly Gln His Ala Gly Phe Ala Ser Val Ala Ile Asn Gln Gly
 1 5 10 15
 Ser Leu Thr Met Ala Val Glu Thr Phe Ser Trp Cys Pro Lys Val Ala
 20 25 30
 Ser Gln Val Asp Thr Ser Phe Arg Thr Arg Lys Ala Gln Phe Gly Asp
 35 40 45
 Gly Tyr Ala Gln Val Ala Gly Asp Gly Ile Asn Pro Val Thr Pro Gln
 50 55 60
 Trp Ser Val Ser Phe Thr Gly Asp Glu Ala Tyr Ile Gln Ala Ile Lys
 65 70 75 80
 Asn Phe Leu Asn Arg His Ala Gly Trp Lys Ser Phe Ile Trp Lys Pro
 85 90 95
 Pro Leu Glu Pro Ser Gly Leu Trp Arg Ala Glu Ser Phe Gln Ile Ser
 100 105 110

Thr His Gly Asn Lys Lys Tyr Thr Leu Ser Ser Thr Phe Ile Gln Ala
 115 120 125
 Tyr His Pro
 130

<210> 8270

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 8270

Gly Phe Asp Val Met Glu Arg Lys Thr Val Ile Lys Leu Ser Gly Ser
 1 5 10 15
 Met Ala Gln Arg Phe Gly Arg Thr His Arg Arg Ala Leu Thr Ser Ala
 20 25 30
 Ser Glu Val Phe Arg Ala Leu Ser Asn Thr Ile Asp Gly Phe Asp Ala
 35 40 45
 Tyr Leu Arg Glu Ala Arg Ala Lys Gly Leu Asp Phe Val Ile Phe Arg
 50 55 60
 Asp Arg Arg Asn Ile Gly His Glu Glu Phe Glu Leu Gly Pro Gly
 65 70 75 80
 Asp Glu Leu Arg Ile Ile Pro Val Ile Arg Gly Ser Lys Arg Ala Gly
 85 90 95
 Val Phe Gln Ala Leu Leu Gly Thr Ala Leu Val Ala Ala Ile Trp
 100 105 110
 Met Pro Gly Val Ser Ile Ala Ala Ser Asn Leu Met Phe Ser Val Gly
 115 120 125
 Ala Ala Met Ala Val Gly Gly Val Val Gln Met Leu Ser Pro Gln Val
 130 135 140
 Ser Gly Leu Arg Met Arg Gln Glu Pro Asp Asn Lys Pro Ser Tyr Ala
 145 150 155 160
 Phe Gly Gly Pro Val Asn Thr Thr Ala Ser Gly Asn Pro Val Pro Leu
 165 170 175
 Leu Tyr Gly Gln Arg Glu Ile Gly Gly Ala Ile Ile Ser Ala Gly Val
 180 185 190
 Tyr Ala Glu Asp Gln Gln
 195

<210> 8271

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8271

Arg Arg Lys Arg Lys Thr Asp Met Ala Tyr Lys Arg Pro Val Ser Val
 1 5 10 15
 Leu Val Val Ile Tyr Ala Glu Asp Thr Lys Arg Val Leu Met Leu Gln
 20 25 30
 Arg Arg Asp Asp Pro Asp Phe Trp Gln Ser Val Thr Gly Ser Leu Glu
 35 40 45
 Glu Gly Glu Thr Ala Pro Gln Ala Ala Ala Arg Glu Val Lys Glu Glu
 50 55 60
 Val Ala Ile Asp Val Ala Tyr Glu Gln Leu Thr Leu Lys Asp Cys Gln
 65 70 75 80
 Arg Thr Val Glu Phe Glu Ile Phe Ser His Leu Arg His Arg Tyr Ala
 85 90 95
 Pro Gly Ile Glu Arg Asn Thr Glu Ser Trp Phe Cys Leu Ala Leu Pro
 100 105 110
 His Glu Arg Glu Ile Val Phe Thr Glu His Leu Thr Tyr Arg Trp Val
 115 120 125
 Asp Ala Ala Asp Ala Ala Ala Leu Thr Lys Ser Trp Ser Asn Arg Gln

130 135 140
 Ala Ile Glu Glu Phe Val Ile Asn Ala Ala
 145 150 155

<210> 8272
 <211> 256
 <212> PRT
 <213> Enterobacter cloacae

<400> 8272
 Glu Gly Ala Ile Phe Gly Glu Leu Phe Met Ala Gly His Ser Lys Trp
 1 5 10 15
 Ala Asn Thr Lys His Arg Lys Ala Ala Gln Asp Ala Lys Arg Gly Lys
 20 25 30
 Ile Phe Thr Lys Ile Ile Arg Glu Leu Val Thr Ala Ala Arg Leu Gly
 35 40 45
 Gly Gly Asp Pro Ala Ser Asn Pro Arg Leu Arg Ala Ala Val Asp Lys
 50 55 60
 Ala Leu Ser Asn Asn Met Thr Arg Asp Thr Leu Asn Arg Ala Ile Ala
 65 70 75 80
 Arg Gly Val Gly Gly Asp Glu Asp Ala Asn Met Glu Thr Ile Ile Tyr
 85 90 95
 Glu Gly Tyr Gly Pro Gly Gly Thr Ala Val Met Val Glu Cys Leu Ser
 100 105 110
 Asp Asn Arg Asn Arg Thr Val Ala Glu Val Arg His Ala Phe Thr Lys
 115 120 125
 Thr Gly Gly Asn Leu Gly Thr Asp Gly Ser Val Ala Tyr Leu Phe Ser
 130 135 140
 Lys Lys Gly Val Ile Ser Phe Glu Lys Gly Asp Glu Asp Ala Ile Met
 145 150 155 160
 Glu Ala Ala Leu Glu Ala Gly Ala Glu Asp Val Val Thr Tyr Asp Asp
 165 170 175
 Gly Ala Ile Asp Val Tyr Thr Ala Trp Glu Glu Met Gly Ala Val Arg
 180 185 190
 Asp Ala Leu Glu Ala Ala Gly Leu Lys Ala Asp Asn Ala Glu Val Ser
 195 200 205
 Met Ile Pro Ser Thr Lys Ala Asp Met Asp Ala Glu Thr Ala Pro Lys
 210 215 220
 Leu Leu Arg Leu Ile Asp Met Leu Glu Asp Cys Asp Asp Val Gln Glu
 225 230 235 240
 Val Tyr His Asn Gly Glu Ile Ser Asp Glu Val Ala Ala Thr Leu
 245 250 255

<210> 8273
 <211> 290
 <212> PRT
 <213> Enterobacter cloacae

<400> 8273
 Arg Gly Glu Lys Pro Gly Ala Ala His Gly Ala Tyr Pro Ala Glu Ala
 1 5 10 15
 Pro Cys Glu Pro Ala Gly Arg Arg Arg Gly Cys Ala Gly His Cys Asp
 20 25 30
 Tyr Pro Leu Ser Arg Gln Pro Glu Cys Asp Ala Asn Glu Arg Val Ala
 35 40 45
 Ala Gln Ser Gly Ala Arg Gln Val Thr Ile Met Thr Asn Gln Ala Gly
 50 55 60
 Cys Leu Ser Ser Leu Phe Leu Leu Cys Arg Gln Ile Ile Ser Ser Arg
 65 70 75 80
 Thr Gln Glu Arg His Val Ile Gly Arg Leu Arg Gly Ile Ile Ile Glu
 85 90 95

Lys Gln Pro Pro Leu Val Leu Leu Glu Val Gly Gly Val Gly Tyr Glu
 100 105 110
 Val His Met Pro Met Thr Cys Phe Tyr Glu Leu Pro Glu Ala Gly Lys
 115 120 125
 Glu Ala Val Val Phe Thr Gln Phe Val Val Arg Glu Asp Ala Gln Leu
 130 135 140
 Leu Tyr Gly Phe Asn Asn Lys Gln Glu Arg Thr Leu Phe Arg Glu Leu
 145 150 155 160
 Ile Lys Thr Asn Gly Val Gly Pro Lys Leu Ala Leu Ala Ile Leu Ser
 165 170 175
 Gly Met Ser Ala Pro Gln Phe Val Asn Ala Val Glu Arg Glu Asp Pro
 180 185 190
 Ala Ala Leu Ile Lys Leu Pro Gly Ile Gly Lys Lys Thr Ala Glu Arg
 195 200 205
 Leu Ile Val Glu Met Lys Asp Arg Phe Lys Gly Leu His Gly Asp Leu
 210 215 220
 Phe Thr Pro Ala Ala Asp Leu Val Leu Thr Ser Pro Gly Ala Pro Ala
 225 230 235 240
 Ser Asp Asp Asp Ala Glu Gln Glu Ala Val Ala Ala Leu Val Ala Leu
 245 250 255
 Gly Tyr Lys Pro Gln Glu Ala Ser Arg Met Val Ser Lys Ile Ala Lys
 260 265 270
 Pro Asp Ala Ser Ser Glu Thr Leu Ile Arg Glu Ala Leu Arg Ala Ala
 275 280 285
 Leu
 290

<210> 8274

<211> 1164

<212> PRT

<213> Enterobacter cloacae

<400> 8274

Met Ala Thr Leu Arg Glu Leu Ile Ile Lys Ile Ser Ala Asn Ser Gln
 1 5 10 15
 Ser Phe Gln Thr Glu Ile Ser Arg Ala Ser Arg Met Gly Gln Asp Tyr
 20 25 30
 Tyr Arg Thr Met Gln Asn Gly Gly Arg Gln Ala Ala Ala Ala Arg
 35 40 45
 Glu Ser Glu Arg Ala Leu Ser Asp Leu Thr Ala Gly Phe Ala Ser Ala
 50 55 60
 Gly Arg Ala Ala Ala Ala Thr Ala Ala Phe Ala Thr Gly Lys Leu
 65 70 75 80
 Val Gln Ile Ala Asp Glu Trp Asn Ser Val Asn Ala Arg Leu Lys Gln
 85 90 95
 Ala Ser Ser Ser Ala Asp Asp Phe Ala Ala Ser Gln Arg Gln Leu Met
 100 105 110
 Glu Ile Ser Gln Arg Thr Gly Thr Ala Phe Ser Asp Asn Ala Asn Leu
 115 120 125
 Phe Ser Arg Ala Ala Ala Ser Met Arg Glu Phe Gly Tyr Ser Ser Asp
 130 135 140
 Glu Val Leu Lys Ile Thr Glu Ala Val Ser Thr Gly Leu Lys Leu Ser
 145 150 155 160
 Gly Ala Asn Thr Gln Glu Ala Ser Ser Val Ile Thr Gln Phe Ser Gln
 165 170 175
 Ala Leu Ala Gln Gly Val Leu Arg Gly Glu Glu Phe Asn Ala Val Asn
 180 185 190
 Glu Ala Gly Asp Arg Val Ile Arg Ala Leu Ala Ala Gly Met Gly Val
 195 200 205
 Ala Arg Lys Asp Leu Lys Ser Met Ala Asp Gln Gly Gln Leu Thr Ile
 210 215 220

Asp Lys Val Val Pro Ala Leu Met Ser Gln Leu Gly Ser Leu Gln Gly
 225 230 235 240
 Glu Phe Ala Ser Met Pro Gln Thr Val Ser Gly Ser Leu Gln Lys Val
 245 250 255
 Thr Asn Ser Phe Met Ala Trp Val Gly Gly Val Asn Gln Ala Thr Gly
 260 265 270
 Ala Thr Asp Ala Leu Ser Gly Gly Leu Asp Gly Val Ala Gln Thr Leu
 275 280 285
 Asp Ser Phe Thr Ser Ser Ala Val Ser Gly Ala Leu Ser Asp Val Ala
 290 295 300
 Asp Asn Met Ser Thr Ile Thr Thr Val Ala Gly Ala Leu Val Gly Val
 305 310 315 320
 Gly Leu Ala Arg Tyr Leu Ser Gly Val Val Thr Ser Ala Thr Ser Ala
 325 330 335
 Thr Gly Ala Leu Ile Ser Ala Ala Lys Ser Glu Val Ala Leu Ala Val
 340 345 350
 Ala Gln Asp Lys Ala Ala Gln Ser Ala Val Ala Ala Ser Arg Ala Glu
 355 360 365
 Val Tyr Arg Ala Gln Gln Ala Val Gln Arg Ser Arg Ser Ala Asp Val
 370 375 380
 Gln Ala Ala Gln Gln Glu Lys Ile Ala Ala Ala Glu Ala Lys Val Thr
 385 390 395 400
 Ala Ala Gln Ala Arg Leu Thr Thr Ala Leu Ala Ser Gly Ser Ala Thr
 405 410 415
 Glu Lys Val Arg Ala Arg Thr Ala Leu Glu Arg Ala Gln Ala Gly Leu
 420 425 430
 Val Ala Ala Lys Asn Ala Asp Ala Gln Ala Ile Ala Glu Arg Arg Leu
 435 440 445
 Ala Ser Ala Glu Ala Ala Arg Asp Arg Asn Leu Ala Asn Arg Val Thr
 450 455 460
 Thr Gln Ser Asn Leu Asn Ser Val Thr Ser Val Gly Thr Arg Leu Leu
 465 470 475 480
 Ser Ser Ala Leu Gly Leu Ile Gly Gly Val Pro Gly Leu Val Met Leu
 485 490 495
 Gly Ala Gly Ala Trp Tyr Ala Val Tyr Gln Asn Gln Glu Gln Ala Arg
 500 505 510
 Arg Ser Ala Gln Glu Tyr Ala Ser Thr Ile Asp Glu Val Ser Lys Lys
 515 520 525
 Thr Arg Ala Met Thr Leu Pro Glu Ala Ser Asp Asn Ala Glu Lys Thr
 530 535 540
 Arg Ala Ala Leu Asn Glu Gln Asn Arg Leu Ile Asp Glu Gln Lys Ser
 545 550 555 560
 Lys Val Glu Ser Leu Lys Glu Gln Ile Ala Gly Tyr Gln Ser Val Ile
 565 570 575
 Ser Asn Pro Gly Pro Thr Thr Ser Gly Gly Phe Met Ile Asn His Leu
 580 585 590
 Thr Tyr Leu Asp Thr Val Thr Arg Gly Leu Ala Thr Ala Thr Glu Gln
 595 600 605
 Leu Ser Val Glu Gln Glu Arg Leu Ala Gln Met Gln Gln Glu Ser Ala
 610 615 620
 Ser Ile Gln Gln Val Leu Glu Gly Leu Glu His Arg Arg Val Ala Leu
 625 630 635 640
 Ile Arg Glu Glu Ala Ala Asn Gln Asn Arg Ala Tyr Gln Ser Leu Leu
 645 650 655
 Leu Met Asn Gly Gln His Asp Glu Phe Asn Arg Leu Leu Gly Leu Gly
 660 665 670
 Asn Gln Leu Leu Met Ala Arg Gln Gly Leu Ala Asn Val Pro Leu Arg
 675 680 685
 Leu Pro Gln Ala Asp Leu Asp Lys Lys Gln Thr Asp Ala Leu Glu Lys
 690 695 700
 Ser Arg Arg Asp Leu Glu Leu Ser Arg Leu Lys Gly Glu Ala Lys Glu

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705          710          715          720
Arg Leu Arg Leu Ser Tyr Ala Ala Asp Asp Leu Gly Leu Thr Ser Asp
          725          730          735
Pro Gln Phe Gln Thr Gly Arg Gln Glu Leu Ile Asn Asn Gly Leu Ala
          740          745          750
Glu Trp Arg Asn Asn Glu Ala Asn Lys Pro Lys Ala Lys Gly Gly Lys
          755          760          765
Thr Glu Gly Glu Lys Thr Glu Asp Val Tyr Lys Arg Leu Ile Lys Gln
          770          775          780
Gln Lys Glu Gln Ile Ala Leu Gln Gly Gln Asn Thr Glu Leu Ala Lys
785          790          795          800
Val Lys Tyr Gln Val Ser Gln Gly Glu Leu Ala Ser Leu Thr Glu Ala
          805          810          815
Gln Lys Lys Thr Val Leu Gln Asn Ala Ala Leu Ile Asp Gln Val Lys
          820          825          830
Leu Arg Glu Gln Leu Arg Asn Tyr Glu Ala Asn Leu Ala Asp Ser Asn
          835          840          845
Ala Ser Ala Arg Ala Ala Asn Glu Ala Gln Leu Leu Gly Tyr Gly Gln
          850          855          860
Gly Ala Arg Phe Arg Glu Arg Leu Gln Glu Gln Phe Asn Leu Arg Lys
865          870          875          880
Glu Phe Glu Gln Lys Asn Thr Asp Leu Leu Arg Gln Arg Gln Ala Gly
          885          890          895
Glu Ile Asp Glu Thr Phe Tyr Gln Gln Gly Leu Ala Leu Asn Lys Arg
          900          905          910
Tyr Leu Glu Glu Arg Leu Arg Asp Gln Glu Gly Tyr Tyr Ala Ala Ser
          915          920          925
Asp Ala Gln Arg Asp Asp Trp Met Thr Gly Leu Ser Glu Gly Tyr Ala
930          935          940
Asn Trp Val Asp Glu Ala Thr Asp Tyr Ser Ser Met Ala Ala Asp Gly
945          950          955          960
Met Lys Gln Ala Met Gly Gly Ala Val Thr Thr Ile Thr Asp Met Leu
          965          970          975
Asn Gly Asn Val Asp Ser Trp Lys Asp Trp Gly Val Ser Val Leu Lys
          980          985          990
Ile Ile Gln Asn Val Leu Val Asn Met Ala Val Ala Asn Gly Val Ser
          995          1000          1005
Ser Ile Gly Ser Leu Phe Ser Phe Gly Ala Ser Ser Ala Ala Thr Ala
1010          1015          1020
Ser Ser Gly Thr Ala Ile Gln Asn Ala Gly Ala Asn Phe Thr Phe Asn
1025          1030          1035          1040
Ala Lys Gly Asn Val Tyr Asp Ser Pro Ser Leu Ser Ala Tyr Ser Asn
          1045          1050          1055
Gly Val Phe Gln Thr Pro Gln Leu Phe Ala Phe Ala Lys Gly Ala Gly
          1060          1065          1070
Val Phe Ala Glu Ala Gly Pro Glu Ala Ile Met Pro Leu Thr Arg Ala
          1075          1080          1085
Ala Asp Gly Ser Leu Gly Val Arg Ala Val Gly Ala Pro Gln Val Ser
1090          1095          1100
Gly Gly Val Pro Ser Val Asn Phe Gly Asp Ile Asn Ile Gln Gly Gly
1105          1110          1115          1120
Ser Pro Gln Ala Ala Ser Gln Gly Thr Ala Gly Ala Ala Gly Arg Gln
          1125          1130          1135
Leu Lys Asp Ala Ile Thr Gly Val Ile Asn Glu Gln Ala Ser Met Pro
          1140          1145          1150
Gly Ser Pro Leu Trp Arg Leu Ile Lys Gly Val
          1155          1160

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<210> 8275

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 8275

Thr Ala Gly Leu Trp Gly Leu Pro Arg Arg Phe Thr Ser Glu Arg Ile
 1 5 10 15
 Thr Met Arg Glu Lys Thr Val Ser Ala Ile Leu Ala His Ala Ala Ser
 20 25 30
 Ser Cys Pro Asp Glu Cys Cys Gly Val Val Ile Gln Lys Gly Arg Val
 35 40 45
 Glu Lys Tyr Ile Pro Cys Arg Asn Gln Ala Glu Ser Pro Thr Glu Gln
 50 55 60
 Phe Glu Leu Ser Pro Glu Asp Tyr Ala Ala Ala Glu Glu Gln Gly Thr
 65 70 75 80
 Val Val Ala Ile Val His Ser His Pro Gly Asp Gly Ala Thr Thr Gln
 85 90 95
 Pro Ser Glu Leu Asp Met Leu Met Cys Asp Ala Thr Glu Leu Pro Trp
 100 105 110
 Val Ile Ala Ser Trp Pro Glu Gly Asp Ile Arg Thr Val Met Pro Arg
 115 120 125
 Gly Asp Arg Pro Leu Thr Gly Arg Gln Phe Val Leu Gly His Ala Asp
 130 135 140
 Cys Trp Ser Leu Ile Met Asp Tyr Phe Arg Thr Glu His Gly Ile Thr
 145 150 155 160
 Leu Pro Asn Tyr Ser Val Asp Arg His Trp Trp Glu Gln Gly Glu Asn
 165 170 175
 Leu Tyr Met Asp Asn Trp Tyr Glu Cys Gly Phe Arg Glu Phe Asp Gly
 180 185 190
 Pro Ser Gln Pro Gly Asp Met Val Ile Met Gln Val Gln Ser Thr Val
 195 200 205
 Pro Asn His Ala Gly Ile Leu Leu Glu Gly Asn Val Leu Leu His His
 210 215 220
 Met Tyr Gly Gln Leu Ser Gln Arg Ile Pro Tyr Gly Gly Tyr Tyr Arg
 225 230 235 240
 Asp Arg Thr Ile Lys Ile Leu Arg Tyr Lys Asp Leu Met
 245 250

<210> 8276

<211> 1291

<212> PRT

<213> Enterobacter cloacae

<400> 8276

Arg Trp Leu Phe Tyr Gly Arg Asp Met Thr Thr Thr Ile Ile Lys Gly
 1 5 10 15
 Arg Gly Lys Gly Gly Ser Asn Gln Thr Arg Thr Pro Ile Glu Ala Pro
 20 25 30
 Asp Ser Ile Gln Ser Ile Ala Arg Ala Lys Val Leu Ile Ala Leu Gly
 35 40 45
 Glu Gly Glu Phe Ala Gly Gly Leu Asp Gly Lys Asn Ile Phe Leu Gly
 50 55 60
 Asp Ser Ser Ser Tyr Thr Pro Leu Gln Asn Ala Asp Gly Ser Tyr Asn
 65 70 75 80
 Phe Asn Asn Val Lys Tyr Glu Phe Arg Ser Gly Thr Gln Asp Gln Asp
 85 90 95
 Tyr Ile Gln Gly Phe Pro Gly Ile Glu Asn Glu Leu Gln Val Ser Tyr
 100 105 110
 Glu Leu Lys Gln Ala Val Pro Tyr Val Arg Ala Val Ser Asn Thr Gln
 115 120 125
 Leu Ser Ala Leu Arg Ile Arg Leu Gly Trp Pro Thr Leu Leu Leu Gln
 130 135 140
 Lys Asn Asn Gly Asp Lys Val Gly Thr Arg Val Glu Tyr Ala Ile Asp

145						150						155						160
Leu	Ser	Val	Asp	Gly	Gly	Pro	Tyr	Glu	Thr	Val	Val	Asn	Gly	Ala	Val			
165						170						175						
Asp	Asp	Lys	Thr	Thr	Ser	Leu	Tyr	Glu	Arg	Ser	His	Arg	Val	Asn	Leu			
180						185						190						
Pro	Lys	Ala	Ser	Thr	Gly	Trp	Gln	Leu	Arg	Val	Arg	Arg	Ile	Thr	Pro			
195						200						205						
Asp	Ser	Thr	Ser	Val	Asn	Ile	Val	Asp	Thr	Met	Arg	Val	Val	Ala	Val			
210						215						220						
Thr	Glu	Ile	Ile	Asp	Ala	Lys	Leu	Arg	Tyr	Val	Asn	Thr	Ala	Leu	Leu			
225						230						235						
Tyr	Val	Glu	Phe	Asp	Ala	Thr	Gln	Phe	Pro	Asn	Gly	Ile	Pro	Gln	Val			
245						250						255						
Val	Cys	Asn	Pro	Lys	Gly	Arg	Ile	Ile	Arg	Val	Pro	Asp	Thr	Tyr	Asp			
260						265						270						
Pro	Glu	Thr	Arg	Thr	Tyr	Ser	Gly	Thr	Trp	Glu	Gly	Val	Phe	Lys	Trp			
275						280						285						
Ala	Trp	Thr	Asp	Asn	Pro	Ala	Trp	Ile	Tyr	Tyr	Asp	Ile	Ile	Leu	Asn			
290						295						300						
Glu	Arg	Phe	Gly	Leu	Gly	Gln	Arg	Ile	Asp	Ala	Thr	Gln	Ile	Asp	Lys			
305						310						315						
Trp	Glu	Leu	Tyr	Arg	Ile	Ala	Gln	Tyr	Cys	Asp	Gln	Leu	Val	Pro	Asp			
325						330						335						
Gly	Lys	Gly	Gly	Ser	Gly	Thr	Glu	Pro	Arg	Phe	Arg	Cys	Asn	Val	Tyr			
340						345						350						
Ile	Gln	Asp	Arg	Asn	Asp	Ala	Trp	Thr	Val	Leu	Arg	Asp	Leu	Ala	Gly			
355						360						365						
Ile	Phe	Arg	Gly	Met	Thr	Tyr	Trp	Gly	Asp	Asn	Lys	Met	Tyr	Val	Leu			
370						375						380						
Ala	Asp	Met	Pro	Arg	Asp	Val	Trp	His	Ile	Tyr	Asn	His	Ala	Ser	Val			
385						390						395						
Val	Glu	Gly	Lys	Phe	Thr	Phe	Ala	Asp	Pro	Ser	Glu	Thr	Thr	Arg	Asn			
405						410						415						
Thr	Ala	Ala	Leu	Val	Asn	Trp	Ser	Asp	Pro	Ala	Asn	His	Tyr	Lys	Asp			
420						425						430						
Thr	Pro	Glu	Pro	Val	Tyr	Asp	Asn	Asp	Leu	Ala	Met	Arg	Phe	Asp	Tyr			
435						440						445						
Arg	Gln	Leu	Glu	Met	Thr	Ala	Ile	Gly	Cys	Thr	Arg	Gln	Ser	Glu	Ala			
450						455						460						
Asn	Arg	Arg	Gly	Arg	Trp	Ala	Leu	Leu	Thr	Asn	Gly	Ile	Gly	Glu	Val			
465						470						475						
Val	Thr	Phe	Ser	Thr	Gly	Met	Asp	Val	Pro	Pro	Val	Gly	Glu	Val	Ile			
485						490						495						
Gly	Val	Ala	Ala	Asn	Glu	Leu	Ala	Gly	Arg	Thr	Ile	Gly	Gly	Arg	Val			
500						505						510						
Ser	Gly	Val	Asn	Gly	Arg	Asn	Ile	Thr	Leu	Asp	Arg	Ala	Ala	Asp	Val			
515						520						525						
Lys	Ala	Gly	Asn	Arg	Leu	Phe	Leu	Asn	Leu	Pro	Ser	Gly	Thr	Ala	Gln			
530						535						540						
Ala	Arg	Thr	Val	Gln	Ala	Val	Asn	Gly	Asn	Thr	Val	Thr	Val	Thr	Thr			
545						550						555						
Pro	Tyr	Ser	Glu	Thr	Pro	Glu	Ala	Glu	Cys	Asn	Trp	Gly	Val	Asp	Ser			
565						570						575						
Asp	Asp	Leu	Phe	Ile	Al													

Ser Tyr Ser Thr Val Asn Gln Asn Ile Ala Ile Thr Thr Met Arg Val
 645 650 655
 Ala Trp Asp Ser Val Gln Gly Ala Val Ala Tyr Glu Ala Glu Trp Arg
 660 665 670
 Arg Asp Ser Gly Asn Trp Ile Ser Val Pro Arg Thr Ser Ser Leu Gly
 675 680 685
 Phe Glu Val Gln Gly Ile Tyr Ser Gly Arg Tyr Leu Val Arg Val Arg
 690 695 700
 Ala Val Asn Ala Ser Asp Val Ser Ser Val Trp Val Thr Ser Ser Glu
 705 710 715 720
 Val Asn Leu Thr Gly Lys Val Gly Asn Pro Lys Pro Val Gly Phe
 725 730 735
 Ile Ala Ser Asp Asn Val Val Phe Gly Ile Glu Leu Ser Trp Gly Phe
 740 745 750
 Pro Ala Asn Thr Asp Asp Thr Leu Lys Thr Glu Ile Gln Tyr Ser Leu
 755 760 765
 Thr Gly Thr Glu Asp Asp Ala Met Leu Leu Ala Asp Val Pro Tyr Pro
 770 775 780
 Gln Arg Lys Tyr Gln Gln Met Gly Leu Lys Ala Gly Gln Thr Phe Trp
 785 790 795 800
 Tyr Arg Ala Gln Leu Val Asp Arg Ser Gly Asn Glu Ser Gly Tyr Thr
 805 810 815
 Asp Phe Val Arg Gly Gln Ala Ser Ile Asp Val Ser Asp Ile Thr Asp
 820 825 830
 Ala Ile Leu Glu Glu Ile Lys Asp Ser Glu Val Phe Lys Asp Leu Ile
 835 840 845
 Glu Ser Ala Val Asp Ser Asn Glu Lys Leu Ala Glu Leu Ser Asp Ala
 850 855 860
 Ile Lys Glu Asn Ala Asp Gly Leu Ala Ala Val Gly Ser Asn Lys
 865 870 875 880
 Gln Thr Ala Glu Ala Ile Ile Gly Asn Ala Leu Ala Ile Ala Asp Val
 885 890 895
 Ile Val Arg Gln Thr Ala Gln Gln Gly Ala Asn Ser Ala Thr Phe Glu
 900 905 910
 Gln Leu Arg Glu Val Ile Ala Thr Glu Thr Glu Ala Arg Val Thr Asp
 915 920 925
 Val Thr Arg Leu Glu Ala Lys Thr Ala Gln Asn Glu Ala Gly Val Thr
 930 935 940
 Glu Val Arg Gln Ala Leu Ser Asp Glu Ala Gln Ala Arg Ala Thr Ala
 945 950 955 960
 Val Asp Gln Leu Thr Ala Ser Thr Gln Val Ile Ser Asp Lys Ala Asp
 965 970 975
 Ser Ala Ser Ser Lys Ala Asp Ala Ala Ser Gly Lys Ala Asp Ala Ala
 980 985 990
 Glu Gln Ala Ser Ser Gln Asn Thr Ala Asp Ile Thr Thr Leu Arg Gln
 995 1000 1005
 Val Val Thr Asp Thr Thr Ser Ser Met Ala Ser Arg Leu Glu Glu Leu
 1010 1015 1020
 Gly Ala Arg Thr Asp Thr Ala Ser Gly Gly Ile Gln Asn Asn Ala Ile
 1025 1030 1035 1040
 Ala Leu Ile Thr Ser Thr Leu Ala Gln Val Asp Gln Arg Val Arg Leu
 1045 1050 1055
 Ser Ala Gln Tyr Gly Asp Ser Lys Ala Ser Ile Asp Arg Leu Asp Asn
 1060 1065 1070
 Val Met Ala Ser Asp Arg Glu Ala Thr Ala Arg Ser Leu Leu Ser Leu
 1075 1080 1085
 Gln Thr Asp Val Asn Gly Asn Lys Ala Ser Ile Asn Ser Leu Asn Gln
 1090 1095 1100
 Thr Phe Ser Asp Tyr Gln Gln Ala Thr Ala Thr Gln Ile Asn Gly Ile
 1105 1110 1115 1120
 Thr Ala Thr Ile Asn Gly His Thr Ser Ala Ile Thr Thr Asn Ala Gln

1125 1130 1135
 Ala Ile Ala Asn Val Asn Gly Asp Leu Lys Ala Met Tyr Ser Ile Lys
 1140 1145 1150
 Val Gly Leu Ser Ser Asn Gly Gln Tyr Tyr Ala Ala Gly Met Gly Ile
 1155 1160 1165
 Gly Val Glu Asn Thr Pro Ser Gly Met Gln Ser Gln Val Ile Phe Leu
 1170 1175 1180
 Ala Asp Arg Phe Ala Val Thr His Gln Ala Gly Ala Thr Val Thr Leu
 1185 1190 1195 1200
 Pro Phe Val Ile Gln Asn Gly Gln Val Ile Ile Arg Asp Thr Val Ile
 1205 1210 1215
 Gly Asp Ala Thr Ile Thr Arg Ala Lys Leu Ala Glu Thr Ile Ser Ser
 1220 1225 1230
 Val Asn Tyr Val Gln Asn Gln Ala Gly Leu Ser Ile Asn Phe Arg Thr
 1235 1240 1245
 Gly Thr Leu Glu Asn Tyr Gly Ser Thr Ala Gly Glu Gly Ala Met Lys
 1250 1255 1260
 Gln Thr Asn Gln Thr Ile Ser Val Lys Asp Ala Asn Asn Val Leu Arg
 1265 1270 1275 1280
 Val Gln Ile Gly Arg Ile Thr Gly Thr Trp
 1285 1290

<210> 8277

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 8277

Phe Phe Cys Arg Lys Tyr Trp Val Lys Asn Met Gln Ile Gly Tyr Val
 1 5 10 15
 Arg Val Ser Thr Asn Asp Gln Asn Thr Asp Leu Gln Arg Gln Ala Leu
 20 25 30
 Glu Arg Ala Gly Cys Glu Gln Val Phe Glu Glu Lys Met Ser Gly Thr
 35 40 45
 Val Ala Asn Arg Pro Ala Leu Lys Lys Leu Leu Arg Thr Leu Asn Glu
 50 55 60
 Gly Asp Thr Leu Val Val Trp Lys Leu Asp Arg Leu Gly Arg Ser Met
 65 70 75 80
 Arg Asn Leu Val Leu Val Asp Glu Leu Arg Gln Arg Gly Ile His
 85 90 95
 Phe Lys Ser Leu Thr Asp Ser Ile Asp Thr Ser Ser Pro Met Gly Arg
 100 105 110
 Phe Ile Phe His Ile Met Ser Ala Leu Ala Glu Met Glu Arg Glu Leu
 115 120 125
 Ile Val Glu Arg Thr Arg Ala Gly Leu Ala Ala Arg Glu Lys Gly
 130 135 140
 Arg Ile Gly Gly Arg Arg Pro Lys Leu Thr Pro Glu Gln Trp Ala Gln
 145 150 155 160
 Ala Gly Arg Leu Ile Ala Asn Gly Val Asp Arg Lys Gln Val Ala Ile
 165 170 175
 Ile Tyr Asp Val Ala Val Cys Thr Leu Tyr Lys Lys Phe Pro Val Asn
 180 185 190
 Lys Asp Val Thr Arg Thr Ser Thr His
 195 200

<210> 8278

<211> 181

<212> PRT

<213> Enterobacter cloacae

<400> 8278

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Ile Arg Tyr Arg Arg Arg Val Met Ser Ile Ile Leu Gly Ile Asp Pro
1          5          10          15
Gly Ser Arg Val Thr Gly Tyr Gly Val Ile Arg Gln Val Gly Arg Gln
20          25          30
Leu Thr Tyr Leu Gly Ser Gly Cys Ile Arg Thr Lys Val Asp Asp Leu
35          40          45
Pro Ser Arg Leu Lys Leu Ile Tyr Ala Gly Val Ser Glu Ile Ile Thr
50          55          60
Gln Phe Gln Pro Asp Tyr Phe Ala Ile Glu Gln Val Phe Met Ala Lys
65          70          75          80
Asn Ala Asp Ser Ala Leu Lys Leu Gly Gln Ala Arg Gly Val Ala Ile
85          90          95
Val Ala Ala Val Asn Gln Asp Leu Pro Val Phe Glu Tyr Ala Ala Arg
100          105          110
Gln Val Lys Gln Thr Val Val Gly Ile Gly Ser Ala Glu Lys Ser Gln
115          120          125
Val Gln His Met Val Arg Thr Leu Leu Lys Leu Pro Ala Asn Pro Gln
130          135          140
Ala Asp Ala Ala Asp Ala Leu Ala Ile Ala Ile Thr His Cys His Val
145          150          155          160
Ser Gln Asn Ala Met Gln Met Ser Glu Ser Arg Leu Asn Leu Ala Arg
165          170          175
Gly Arg Leu Arg
180

```

<210> 8279

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 8279

```

Val Phe Cys Arg Ala Ser Asp Ser Ala Thr Arg Gln Lys Gly Arg Gly
1          5          10          15
Ala Gly Arg Met Arg Pro Lys His Phe Gln Glu Lys Leu Lys Ser Ser
20          25          30
Cys Gln Phe Lys Leu Ala Glu Val Ile Glu Cys Tyr Asn Ile Thr Phe
35          40          45
His Ala Phe Ile Thr Met Ile Ser Arg Ile Met Leu Gln Lys Asn Thr
50          55          60
Leu Leu Phe Ala Ala Leu Ser Ala Ala Leu Trp Gly Thr Thr Ala Gln
65          70          75          80
Asp Val Asn Ala Ala Val Val Ala Ser Leu Lys Pro Leu Gly Phe Ile
85          90          95
Ala Ser Ala Ile Ala Asp Gly Ile Thr Glu Thr Gln Val Leu Leu Pro
100          105          110
Asp Gly Ala Ser Glu His Asp Tyr Ser Leu Arg Pro Ser Asp Val Lys
115          120          125
Arg Leu Gln Asn Ala Asp Leu Val Val Trp Ile Gly Pro Glu Met Glu
130          135          140
Gly Ser Ile Arg Ser Pro Ser Val Asp Gly Gly Ser Ala Ile Val
145          150          155

```

<210> 8280

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 8280

```

Ala Leu Arg Leu Met Ala Arg Gly Ile Leu Pro Asp Ile Tyr Pro Arg
1          5          10          15
Gln Gln Glu Ile Tyr Pro Gln Gln Tyr Ile His Thr Gly Ile Pro Ser

```


20										25										30													
Met	Ser	Ile	Ser	Ser	Asp	Val	Gln	Lys	Leu	Glu	Pro	Gly	Lys	Arg	Val																		
Arg	Leu	Ile	Glu	Val	Asp	Gly	Ser	Ala	Phe	Gly	Ala	Gly	Ile	Leu	Arg																		
Phe	His	Asn	Glu	Thr	Ile	Pro	His	Thr	Glu	Ala	Glu	Ile	Ile	Ala	Ala																		
Gly	Gly	Asp	Glu	Ser	Lys	Leu	Glu	Pro	Lys	Ser	Val	Trp	Trp	Gln	Gly																		
Glu	Glu	Tyr	Gly	Ala	Trp	Pro	Tyr	Glu	Leu	Thr	Gly	Ile	Ser	Val	Ser																		
Ser	Asp	Gly	Gln	Ser	Ser	Arg	Pro	Ser	Leu	Thr	Val	Ala	Asn	Ile	Ser																		
Gly	Thr	Ile	Gly	Ser	Leu	Cys	Arg	Arg	Phe	Gln	Gly	Met	Ala	Lys	Ala																		
Lys	Val	Ile	Ile	His	Asp	Thr	Phe	Ala	His	Tyr	Leu	Asp	Ala	Arg	Asn																		
Phe	Pro	Asp	Gly	Asn	Pro	Thr	Ala	Asn	Pro	Asn	Glu	Glu	Arg	Lys	Gln																		
Val	Tyr	Tyr	Ile	Asp	Arg	Lys	Ser	Gly	Ser	Asp	Asp	Glu	Thr	Val	Glu																		
Phe	Glu	Leu	Ser	Ser	Pro	Ala	Asp	Leu	Arg	Gly	Gln	Leu	Ile	Pro	Thr																		
Arg	Gln	Ile	Gln	Pro	Met	Cys	Thr	Trp	Cys	Met	Arg	Gly	Trp	Tyr	Lys																		
Thr	Gly	Asn	Gly	Cys	Thr	Tyr	Ala	Gly	Gln	Asn	Gly	Trp	Phe	Asp	Lys																		
225																																	
Asp	Gly	Asn	Arg	Val	Asp	Asp	Pro	Ser	Gln	Asp	Val	Cys	Ser	Gly	Leu																		
Leu	Ser	Thr	Gly	Cys	Lys	Pro	Arg	Phe	Gly	Glu	Asn	Glu	Gln	Leu	Asp																		
Tyr	Gly	Gly	Phe	Pro	Gly	Ala	Ser	Leu	Leu	Arg	Gly																						

<210> 8281

<211> 607

<212> PRT

<213> Enterobacter cloacae

<400> 8281

Pro	Ala	Arg	Gln	Ala	Thr	Ile	Ser	Leu	Arg	Leu	Ile	Lys	Gly	Tyr	Leu
1															
Met	Arg	Thr	Glu	Tyr	Cys	Gly	Gln	Leu	Arg	Gln	Ser	His	Val	Gly	Gln
Gln	Val	Thr	Leu	Cys	Gly	Trp	Val	Asn	Arg	Arg	Arg	Asp	Leu	Gly	Ser
Leu	Ile	Phe	Ile	Asp	Met	Arg	Asp	Arg	Glu	Gly	Ile	Val	Gln	Val	Phe
Phe	Asp	Pro	Asp	Arg	Ala	Asp	Ala	Leu	Lys	Leu	Ala	Ser	Glu	Leu	Arg
65															
Asn	Glu	Phe	Cys	Ile	Gln	Val	Thr	Gly	Thr	Val	Arg	Ala	Arg	Asp	Glu
Lys	Asn	Val	Asn	Ala	Asp	Met	Ala	Thr	Gly	Ala	Ile	Glu	Val	Leu	Ala
Ser	Asp	Leu	Thr	Ile	Ile	Asn	Arg	Ala	Glu	Ala	Leu	Pro	Leu	Asp	Ser
Asn	His	Val	Asn	Thr	Glu	Glu	Ala	Arg	Leu	Lys	Tyr	Arg	Tyr	Leu	Asp
Leu	Arg	Arg	Pro	Glu	Met	Ala	Gln	Arg	Leu	Lys	Thr	Arg	Ala	Lys	Ile
145															
Thr	Ser	Leu	Val	Arg	Arg	Phe	Met	Asp	Asp	His	Gly	Phe	Leu	Asp	Ile

165 170 175
 Glu Thr Pro Met Leu Thr Lys Ala Thr Pro Glu Gly Ala Arg Asp Tyr
 180 185 190
 Leu Val Pro Ser Arg Val His Lys Gly Lys Phe Tyr Ala Leu Pro Gln
 195 200 205
 Ser Pro Gln Leu Phe Lys Gln Leu Leu Met Met Ser Gly Phe Asp Arg
 210 215 220
 Tyr Tyr Gln Ile Val Lys Cys Phe Arg Asp Glu Asp Leu Arg Ala Asp
 225 230 235 240
 Arg Gln Pro Glu Phe Thr Gln Ile Asp Val Glu Thr Ser Phe Met Thr
 245 250 255
 Ala Glu Gln Val Arg Glu Val Met Glu Ala Leu Val Arg Ser Leu Trp
 260 265 270
 Asn Asp Val Lys Gly Val Glu Leu Gly Asp Phe Pro Ile Met Thr Phe
 275 280 285
 Ala Glu Ala Glu Arg Arg Tyr Gly Ser Asp Lys Pro Asp Leu Arg Asn
 290 295 300
 Pro Met Glu Leu Val Asp Val Ala Asp Leu Val Lys Ala Val Glu Phe
 305 310 315 320
 Ala Val Phe Ala Gly Pro Ala Asn Asp Pro Lys Gly Arg Val Ala Ala
 325 330 335
 Leu Arg Val Pro Gly Gly Ala Ala Leu Ser Arg Lys Gln Ile Asp Asp
 340 345 350
 Tyr Gly Asn Phe Ile Lys Ile Tyr Gly Ala Lys Gly Leu Ala Tyr Ile
 355 360 365
 Lys Val Thr Glu Arg Ala Lys Gly Leu Glu Gly Ile Thr Ser Pro Val
 370 375 380
 Ala Lys Phe Leu Asn Ala Asp Ile Val Glu Ala Ile Leu Glu Arg Thr
 385 390 395 400
 Gly Ala Gln Asp Gly Asp Met Ile Phe Phe Gly Ala Asp Asn Lys Lys
 405 410 415
 Val Val Ala Asp Ala Met Gly Ala Leu Arg Leu Lys Leu Gly Lys Asp
 420 425 430
 Leu Asn Leu Thr Asp Glu Ser Lys Trp Ala Pro Leu Trp Val Ile Asp
 435 440 445
 Phe Pro Met Phe Glu Asp Asp Gly Glu Gly Leu Thr Ala Met His
 450 455 460
 His Pro Phe Thr Ser Pro Lys Asp Met Thr Pro Ala Glu Leu Lys Ala
 465 470 475 480
 Ala Pro Glu Asp Ala Val Ala Asn Ala Tyr Asp Met Val Ile Asn Gly
 485 490 495
 Tyr Glu Val Gly Gly Ser Val Arg Ile His Ser Gly Glu Met Gln
 500 505 510
 Gln Thr Val Phe Gly Ile Leu Gly Ile Asn Glu Gln Glu Gln Arg Glu
 515 520 525
 Lys Phe Gly Phe Leu Leu Asp Ala Leu Lys Tyr Gly Thr Pro Pro His
 530 535 540
 Ala Gly Leu Ala Phe Gly Leu Asp Arg Leu Thr Met Leu Leu Thr Gly
 545 550 555 560
 Thr Asp Asn Ile Arg Asp Val Ile Ala Phe Pro Lys Thr Thr Ala Ala
 565 570 575
 Ala Cys Leu Met Thr Glu Ala Pro Ser Phe Ala Asn Pro Ala Ala Leu
 580 585 590
 Ala Glu Leu Gly Ile Glu Val Val Lys Lys Glu Glu Lys Asn
 595 600 605

<210> 8282

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 8282

Arg Met Ile Glu Ala Asp Arg Leu Val Ser Ala Gly Thr Ile Gln Pro
 1 5 10 15
 Asp Asp Val Val Asp Arg Ala Ile Arg Pro Lys Leu Leu Asp Glu Tyr
 20 25 30
 Ile Gly Gln Pro Gln Val Arg Ser Gln Met Glu Ile Phe Ile Gln Ala
 35 40 45
 Ala Lys Leu Arg Gly Asp Ala Leu Asp His Leu Leu Ile Phe Gly Pro
 50 55 60
 Pro Gly Leu Gly Lys Thr Thr Leu Ala Asn Ile Val Ala Asn Glu Met
 65 70 75 80
 Gly Val Asn Leu Arg Thr Thr Ser Gly Pro Val Leu Glu Lys Ala Gly
 85 90 95
 Asp Leu Ala Ala Met Leu Thr Asn Leu Glu Pro His Asp Val Leu Phe
 100 105 110
 Ile Asp Glu Ile His Arg Leu Ser Pro Val Val Glu Glu Val Leu Tyr
 115 120 125
 Pro Ala Met Glu Asp Tyr Gln Leu Asp Ile Met Ile Gly Glu Gly Pro
 130 135 140
 Ala Ala Arg Ser Ile Lys Ile Asp Leu Pro Pro Phe Thr Leu Ile Gly
 145 150 155 160
 Ala Thr Thr Arg Ala Gly Ser Leu Thr Ser Pro Leu Arg Asp Arg Phe
 165 170 175
 Gly Ile Val Gln Arg Leu Glu Phe Tyr Gln Val Pro Asp Leu Gln His
 180 185 190
 Ile Val Gly Arg Ser Ala Arg Tyr Met Gly Leu Asp Met Ser Glu Glu
 195 200 205
 Gly Ala Phe Glu Val Ala Lys Arg Ser Arg Gly Thr Pro Arg Ile Ala
 210 215 220
 Asn Arg Leu Leu Arg Arg Val Arg Asp Phe Ala Glu Val Lys His Asp
 225 230 235 240
 Gly Thr Ile Ser Ala Glu Ile Ala Ala Gln Ala Leu Asp Met Leu Asn
 245 250 255
 Val Asp Ala Glu Gly Phe Asp Tyr Met Asp Arg Lys Leu Leu Leu Ala
 260 265 270
 Val Leu Asp Lys Phe Phe Gly Gly Pro Val Gly Leu Asp Asn Leu Ala
 275 280 285
 Ala Ala Ile Gly Glu Glu Arg Glu Thr Ile Glu Asp Val Leu Glu Pro
 290 295 300
 Tyr Leu Ile Gln Gln Gly Phe Leu Gln Arg Thr Pro Arg Gly Arg Met
 305 310 315 320
 Ala Thr Val Arg Ala Trp Asn His Phe Gly Ile Thr Pro Pro Ala Met
 325 330 335
 Pro

<210> 8283

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 8283

Arg Arg Gln Arg Thr Thr Asp Arg Arg Ala Gly Ser Gly Pro Gly Ser
 1 5 10 15
 Gly Arg Thr Asp Pro Asp Gly Arg Thr Gly Asp Ser Gln Pro Asp Asp
 20 25 30
 Gly Ala Gly Thr Gly Arg Pro Val Val Pro Leu Pro Asp Asp Gly Arg
 35 40 45
 Arg Val Glu Ala Arg Gly Ala Asp Leu Gln Gln Gly Cys Glu Ala Ala
 50 55 60
 Phe Leu Leu Arg Arg Val Arg Thr Arg Arg Cys Ala Met Ser Ala Tyr

65		70		75		80									
Thr	Val	Ser	Gln	Leu	Ala	His	Asn	Ala	Gly	Val	Ser	Val	His	Ile	Val
			85						90					95	
Arg	Asp	Tyr	Leu	Val	Arg	Gly	Leu	Leu	Arg	Pro	Val	Ala	Cys	Thr	Thr
		100					105						110		
Gly	Gly	Tyr	Gly	Val	Phe	Asp	Asp	Ala	Ala	Leu	Gln	Arg	Leu	Cys	Phe
		115					120					125			
Val	Arg	Ala	Ala	Phe	Glu	Ala	Gly	Ile	Gly	Leu	Asp	Ala	Leu	Ala	Arg
		130					135				140				
Leu	Cys	Arg	Ala	Leu	Asp	Ala	Ala	Asp	Gly	Ala	Gln	Ala	Ala	Ala	Gln
145				150						155					160
Leu	Ala	Val	Leu	Arg	Gln	Leu	Val	Glu	Arg	Arg	Arg	Ala	Ala	Leu	Ala
			165						170					175	
His	Leu	Asp	Ala	Gln	Leu	Ala	Ser	Met	Pro	Ala	Glu	Arg	Ala	His	Glu
		180						185					190		
Glu	Ala	Leu	Pro												
		195													

<210> 8284

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 8284

Ser	Ala	Pro	Ile	Ser	Thr	Met	Leu	Asn	Thr	Arg	Val	His	Gln	Ser	Glu
			5						10					15	
Val	Ser	Met	Ala	Ala	Asp	Thr	Pro	Arg	Ile	Pro	Glu	Gln	Gly	Val	Ala
		20						25				30			
Thr	Leu	Pro	Asp	Glu	Ala	Trp	Glu	Arg	Ala	Arg	Arg	Arg	Ala	Glu	Ile
		35					40					45			
Ile	Ser	Pro	Leu	Ala	Gln	Ser	Glu	Thr	Val	Gly	His	Glu	Ala	Ala	Asp
	50					55				60					
Met	Ala	Ala	Gln	Ala	Leu	Gly	Leu	Ser	Arg	Arg	Gln	Val	Tyr	Val	Leu
65				70					75					80	
Ile	Arg	Arg	Ala	Arg	Gln	Gly	Ser	Gly	Leu	Val	Thr	Asp	Leu	Val	Pro
			85					90					95		
Gly	Gln	Ser	Gly	Gly	Gly	Lys	Gly	Lys	Gly	Arg	Leu	Pro	Glu	Pro	Val
		100					105					110			
Glu	Arg	Val	Ile	His	Glu	Leu	Leu	Gln	Lys	Arg	Phe	Leu	Thr	Lys	Gln
		115					120					125			
Lys	Arg	Ser	Leu	Ala	Ala	Phe	His	Arg	Glu	Val	Thr	Gln	Val	Cys	Lys
		130				135					140				
Ala	Gln	Lys	Leu	Arg	Val	Pro	Ala	Arg	Asn	Thr	Val	Ala	Leu	Arg	Ile
145				150					155					160	
Ala	Ser	Leu	Asp	Pro	Arg	Lys	Val	Ile	Arg	Arg	Glu	Gly	Gln	Asp	
			165					170					175		
Ala	Ala	Arg	Asp	Leu	Gln	Gly	Val	Gly	Gly	Glu	Pro	Pro	Ala	Val	Thr
		180					185					190			
Ala	Pro	Leu	Glu	Gln	Val	Gln	Ile	Asp	His	Thr	Val	Ile	Asp	Leu	Ile
		195				200					205				
Val	Val	Asp	Asp	Arg	Asp	Arg	Gln	Pro	Ile	Gly	Arg	Pro	Tyr	Leu	Thr
		210				215				220					
Leu	Ala	Ile	Asp	Val	Phe	Thr	Arg	Cys	Val	Leu	Gly	Met	Val	Val	Thr
225				230					235					240	
Leu	Glu	Ala	Pro	Ser	Ala	Val	Ser	Val	Gly	Leu	Cys	Leu	Val	His	Val
			245						250				255		
Ala	Cys	Asp	Lys	Arg	Pro	Trp	Leu	Glu	Gly	Leu	Asn	Val	Glu	Met	Asp
		260					265					270			
Trp	Gln	Met	Ser	Gly	Lys	Pro	Leu	Leu	Leu	Tyr	Leu	Asp	Asn	Ala	Ala
		275				280				285					
Glu	Phe	Lys	Ser	Glu	Ala	Leu	Arg	Arg	Gly	Cys	Glu	Gln	His	Gly	Ile

290	295	300
Arg Leu Asp Tyr Arg Pro	Leu Gly Gln Pro His	Tyr Gly Gly Ile Val
305	310	315
Glu Arg Ile Ile Gly Thr	Ala Met Gln Met Ile	His Asp Glu Leu Pro
	325	330
Gly Thr Thr Phe Ser Asn	Pro Asp Gln Arg Gly	Asp Tyr Asp Ser Glu
	340	345
Asn Lys Ala Ala Leu Thr	Leu Arg Glu Leu Glu	Arg Trp Leu Thr Leu
	355	360
Ala Val Gly Thr Tyr His	Gly Ser Val His Asn	Gly Leu Leu Gln Pro
	370	375
Pro Ala Ala Arg Trp Ala	Glu Ala Val Ala Arg	Val Gly Val Pro Ala
	385	390
Val Val Thr Arg Ala Thr	Ser Phe Leu Val Asp	Phe Leu Pro Ile Leu
	405	410
Arg Arg Thr Leu Thr Arg	Thr Gly Phe Val Ile	Asp His Ile His Tyr
	420	425
Tyr Ala Asp Gly His Cys	Cys Lys	
	435	440

<210> 8285

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 8285

Asn Val Arg Pro Leu	Asn Lys Thr Lys	Gly Cys Leu Ile Ala	Asn Phe
1	5	10	15
Ala Thr Val Pro Ala	Asp Ala Leu Lys	Pro Trp Ile Ala	Arg Arg Glu
	20	25	30
Arg Trp Pro Ser Phe	Leu Ile Arg Arg	Asp Pro Arg Asp	Ile Ser Arg
	35	40	45
Ile Trp Val Leu Glu	Pro Glu Gly Gln His	Tyr Leu Glu Ile	Pro Tyr
	50	55	60
Arg Thr Leu Ser His	Pro Ala Val Thr	Leu Trp Glu Gln	Arg Gln Ala
	65	70	75
Leu Ala Lys Leu Arg	Gln Gln Gly Arg	Glu Gln Val Asp	Glu Ser Ala
	85	90	95
Leu Phe Arg Met Ile	Gly Gln Met Arg	Glu Ile Val Thr	Ser Ala Gln
	100	105	110
Lys Ala Thr Arg Lys	Ala Arg Arg Asp	Ala Asp Arg Arg	Gln His Leu
	115	120	125
Lys Thr Ser Ala Arg	Pro Asp Lys Pro	Val Pro Pro Asp	Thr Asp Ile
	130	135	140
Ala Asp Pro Gln Ala	Asp Asn Leu Pro	Pro Ala Lys Pro	Phe Asp Gln
	145	150	155
Ile Glu Glu Trp			160

165

<210> 8286

<211> 521

<212> PRT

<213> Enterobacter cloacae

<400> 8286

His Cys Phe Pro Ser	Gly Tyr Gly Gly	Arg Asn Gln Gly	Val Ile Asn
1	5	10	15
Val Ala Ile Leu Ser	Ala Ile Arg Arg	Trp His Phe Arg	Asp Gly Ala
	20	25	30
Ser Ile Arg Glu Ile	Ala Arg Arg Ser	Gly Leu Ser Arg	Asn Thr Val
	35	40	45

Arg Lys Tyr Leu Gln Ser Lys Val Val Glu Pro Gln Tyr Pro Ala Arg
 50 55 60
 Asp Ser Val Gly Lys Leu Ser Pro Phe Glu Pro Lys Leu Arg Gln Trp
 65 70 75 80
 Leu Ser Thr Glu His Lys Lys Thr Lys Lys Leu Arg Arg Asn Leu Arg
 85 90 95
 Ser Met Tyr Arg Asp Leu Val Ala Leu Gly Phe Thr Gly Ser Tyr Asp
 100 105 110
 Arg Val Cys Ala Phe Ala Arg Gln Trp Lys Asp Ser Glu Gln Phe Lys
 115 120 125
 Ala Gln Thr Ser Gly Lys Gly Cys Phe Ile Pro Leu Arg Phe Ala Cys
 130 135 140
 Gly Glu Ala Phe Gln Phe Asp Trp Ser Glu Asp Phe Ala Arg Ile Ala
 145 150 155 160
 Gly Lys Gln Val Lys Leu Gln Ile Ala Gln Phe Lys Leu Ala His Ser
 165 170 175
 Arg Ala Phe Val Leu Arg Ala Tyr Tyr Gln Gln Lys His Glu Met Leu
 180 185 190
 Phe Asp Ala His Trp His Ala Phe Gln Ile Phe Gly Gly Ile Pro Lys
 195 200 205
 Arg Gly Ile Tyr Asp Asn Met Lys Thr Ala Val Asp Ser Val Gly Arg
 210 215 220
 Gly Lys Glu Arg Arg Val Asn Gln Arg Phe Thr Ala Met Val Ser His
 225 230 235 240
 Tyr Leu Phe Asp Ala Gln Phe Cys Asn Pro Ala Ser Gly Trp Glu Lys
 245 250 255
 Gly Gln Ile Glu Lys Asn Val Gln Asp Ser Arg Gln Arg Leu Trp Gln
 260 265 270
 Gly Ala Pro Asp Phe Gln Ser Leu Ala Asp Leu Asn Val Trp Leu Glu
 275 280 285
 His Arg Cys Lys Ala Leu Trp Ser Glu Leu Arg His Pro Glu Leu Asp
 290 295 300
 Gln Thr Val Gln Glu Ala Phe Ala Asp Glu Gln Gly Glu Leu Met Ala
 305 310 315 320
 Leu Pro Asn Ala Phe Asp Ala Phe Val Glu Gln Thr Lys Arg Val Thr
 325 330 335
 Ser Thr Cys Leu Val His His Glu Gly Asn Arg Tyr Ser Val Pro Ala
 340 345 350
 Ser Tyr Ala Asn Arg Ala Ile Ser Leu Arg Ile Tyr Ala Asp Lys Leu
 355 360 365
 Val Met Ala Ala Glu Gly Gln His Ile Ala Glu His Pro Arg Leu Phe
 370 375 380
 Gly Ser Gly His Ala Arg Arg Gly His Thr Gln Tyr Asp Trp His His
 385 390 395 400
 Tyr Leu Ser Val Leu Gln Lys Lys Pro Gly Ala Leu Arg Asn Gly Ala
 405 410 415
 Pro Phe Ala Glu Leu Pro Pro Ala Phe Lys Lys Leu Gln Ser Ile Leu
 420 425 430
 Leu Gln Arg Pro Gly Gly Asp Arg Asp Met Val Glu Ile Leu Ala Leu
 435 440 445
 Val Leu His His Asp Glu Gly Ala Val Leu Ser Ala Val Glu Leu Ala
 450 455 460
 Leu Glu Cys Gly Lys Pro Ser Lys Glu His Val Leu Asn Leu Leu Gly
 465 470 475 480
 Arg Leu Thr Glu Glu Pro Pro Pro Lys Pro Ile Pro Ile Pro Lys Gly
 485 490 495
 Leu Arg Leu Thr Leu Glu Pro Gln Ala Asn Val Asn Arg Tyr Asp Ser
 500 505 510
 Leu Arg Arg Ala His Asp Ala Ala
 515 520

<210> 8287
 <211> 340
 <212> PRT
 <213> Enterobacter cloacae

<400> 8287

Gln Ala Met Lys Thr Ala Thr Ala Pro Leu Pro Pro Leu Arg Ser Val
 1 5 10 15
 Lys Val Leu Asp Gln Leu Arg Glu Arg Ile Arg Tyr Leu His Tyr Ser
 20 25 30
 Leu Pro Thr Glu Gln Ala Tyr Val His Trp Val Arg Ala Phe Ile Arg
 35 40 45
 Phe His Gly Val Arg His Pro Ala Thr Leu Gly Ser Ser Glu Val Glu
 50 55 60
 Ala Phe Leu Ser Trp Leu Ala Asn Glu Arg Lys Val Ser Val Ser Thr
 65 70 75 80
 His Arg Gln Ala Leu Ala Ala Leu Leu Phe Tyr Gly Lys Val Leu
 85 90 95
 Cys Thr Asp Leu Pro Trp Leu Gln Glu Ile Gly Arg Pro Arg Pro Ser
 100 105 110
 Arg Arg Leu Pro Val Val Leu Thr Pro Asp Glu Val Val Arg Ile Leu
 115 120 125
 Gly Phe Leu Glu Gly Glu His Arg Leu Phe Ala Gln Leu Leu Tyr Gly
 130 135 140
 Thr Gly Met Arg Ile Ser Glu Gly Leu Gln Leu Arg Val Lys Asp Leu
 145 150 155 160
 Asp Phe Asp His Gly Thr Ile Ile Val Arg Glu Gly Lys Gly Ser Lys
 165 170 175
 Asp Arg Ala Leu Met Leu Pro Glu Ser Leu Ala Pro Ser Leu Arg Glu
 180 185 190
 Gln Leu Ser Arg Ala Arg Ala Trp Trp Leu Lys Asp Gln Ala Glu Gly
 195 200 205
 Arg Ser Gly Val Ala Leu Pro Asp Ala Leu Glu Arg Lys Tyr Pro Arg
 210 215 220
 Ala Gly His Ser Trp Pro Trp Phe Trp Val Phe Ala Gln His Thr His
 225 230 235 240
 Ser Thr Asp Pro Arg Ser Gly Val Val Arg Arg His His Met Tyr Asp
 245 250 255
 Gln Thr Phe Gln Arg Ala Phe Lys Arg Ala Val Glu Gln Ala Gly Ile
 260 265 270
 Thr Lys Pro Ala Thr Pro His Thr Leu Arg His Ser Phe Ala Thr Ala
 275 280 285
 Leu Leu Arg Ser Gly Tyr Asp Ile Arg Thr Val Gln Asp Leu Leu Gly
 290 295 300
 His Ser Asp Val Ser Thr Thr Met Ile Tyr Thr His Val Leu Lys Val
 305 310 315 320
 Gly Gly Ala Gly Val Arg Ser Pro Leu Asp Ala Leu Pro Pro Leu Thr
 325 330 335
 Ser Glu Arg
 340

<210> 8288
 <211> 170
 <212> PRT
 <213> Enterobacter cloacae

<400> 8288

Thr Ser Val Glu His Ile Tyr Ala Ala Gly Asp Cys Thr Asp Gln Pro
 1 5 10 15
 Gln Phe Val Tyr Val Ala Ala Ala Ala Gly Thr Arg Ala Ala Ile Asn
 20 25 30

```

Met Thr Gly Gly Asp Ala Ala Leu Asn Leu Thr Ala Met Pro Ala Val
    35          40          45
Val Phe Thr Asp Pro Gln Val Ala Thr Val Gly Tyr Ser Glu Ala Glu
    50          55          60
Ala His His Asp Gly Ile Lys Thr Asp Ser Arg Thr Leu Thr Leu Asp
    65          70          75          80
Asn Val Pro Arg Ala Leu Ala Asn Phe Asp Thr Arg Gly Phe Ile Lys
    85          90          95
Leu Val Val Glu Glu Gly Ser Gly Arg Leu Ile Gly Val Gln Ala Val
    100          105          110
Ala Pro Glu Ala Gly Glu Leu Ile Gln Thr Ala Ala Leu Ala Ile Arg
    115          120          125
Asn Arg Met Thr Val Gln Glu Leu Ala Asp Gln Leu Phe Pro Tyr Leu
    130          135          140
Thr Met Val Glu Gly Leu Lys Leu Ala Ala Gln Thr Phe Asn Lys Asp
    145          150          155          160
Val Lys Gln Leu Ser Cys Cys Ala Gly
    165          170

```

<210> 8289

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 8289

```

Gln Thr Ala Ala Arg Asp Ala Pro Thr Arg Phe Arg Leu Pro Val Gly
    1          5          10          15
Cys Ala Gly Arg Val Asp Leu Pro Leu Pro Ser Ala Asp Ser Arg Arg
    20          25          30
Arg Ala Gly Arg Asp Asp Arg Arg Cys Leu Pro Trp Arg Ala Leu Gly
    35          40          45
Cys Cys Arg Ala Arg Ala Asp Arg Leu Val Arg Ser Gly Arg Asn Ala
    50          55          60
Ala Ala Ala Arg Leu Pro Gly Arg Ile Met Thr Ser Ser Gln Pro Ala
    65          70          75          80
Gly Trp Thr Ala Ala Glu Leu Ala Gln Ala Ala Ala Arg Gly Gln Leu
    85          90          95
Asp Leu His Tyr Gln Pro Leu Val Asp Leu Arg Asp His Arg Ile Ala
    100          105          110
Gly Ala Glu Ala Leu Met Arg Trp Arg His Pro Arg Leu Gly Leu Leu
    115          120          125
Pro Pro Gly Gln Phe Leu Pro Leu Ala Glu Ser Phe Gly Leu Met Pro
    130          135          140
Glu Ile Gly Ala Trp Val Leu Gly Glu Ala Cys Arg Gln Met His Lys
    145          150          155          160
Trp Gln Gly Pro Ala Trp Gln Pro Phe Arg Leu Ala Ile Asn Val Ser
    165          170          175
Ala Ser Gln Val Gly Pro Thr Phe Asp Asp Glu Val Lys Arg Val Leu
    180          185          190
Ala Asp Met Ala Leu Pro Ala Glu Leu Leu Glu Ile Glu Leu Thr Glu
    195          200          205
Ser Val Ala Phe Gly Asn Pro Ala Leu Phe Ala Ser Phe Asp Ala Leu
    210          215          220
Arg Ala Ile Gly Val Arg Phe Ala Ala Asp Asp Phe Gly Thr Gly Tyr
    225          230          235          240
Ser Cys Leu Gln His Leu Lys Cys Cys Pro Ile Thr Thr Leu Lys Ile
    245          250          255
Asp Gln Ser Phe Val Ala Arg Leu Pro Asp Asp Ala Arg Asp Gln Thr
    260          265          270
Ile Val Arg Ala Val Ile Gln Leu Ala His Gly Leu Gly Met Asp Val
    275          280          285

```


Ile Phe Arg Arg Arg Leu His Gln Leu Ile Gly Arg Asn Gly Cys Cys
 290 295 300
 Ala Ala Ser Ser
 305

<210> 8290

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 8290

Thr Tyr His Pro Leu Leu Met Glu Leu His Met Asn Pro Phe Lys
 1 5 10 15
 Gly Arg His Phe Gln Arg Asp Ile Ile Leu Trp Ala Val Arg Trp Tyr
 20 25 30
 Cys Lys Tyr Gly Ile Ser Tyr Arg Glu Leu Gln Glu Met Leu Ala Glu
 35 40 45
 Arg Gly Val Asn Val Asp His Ser Thr Ile Tyr Arg Trp Val Gln Arg
 50 55 60
 Tyr Ala Pro Glu Met Glu Lys Arg Leu Arg Trp Tyr Trp Arg Asn Pro
 65 70 75 80
 Ser Asp Leu Cys Pro Trp His Met Asp Glu Thr Tyr Val Lys Val Asn
 85 90 95
 Gly Arg Trp Ala Tyr Leu Tyr Arg Ala Val Asp Ser Arg Gly Arg Thr
 100 105 110
 Val Asp Phe Tyr Leu Ser Ser Arg Arg Asn Ser Lys Ala Ala Tyr Arg
 115 120 125
 Phe Leu Gly Lys Ile Leu Asn Asn Val Lys Lys Trp Gln Ile Pro Arg
 130 135 140
 Phe Ile Asn Thr Asp Lys Ala Pro Ala Tyr Gly Arg Ala Leu Ala Leu
 145 150 155 160
 Leu Lys Arg Glu Gly Arg Cys Pro Ser Asp Val Glu His Arg Gln Ile
 165 170 175
 Lys Tyr Arg Asn Asn Val Ile Glu Cys Asp His Gly Lys Leu Lys Arg
 180 185 190
 Ile Ile Gly Ala Thr Leu Gly Phe Lys Ser Met Lys Thr Ala Tyr Ala
 195 200 205
 Thr Ile Lys Gly Ile Glu Val Met Arg Ala Leu Arg Lys Gly Gln Ala
 210 215 220
 Ser Ala Phe Tyr Tyr Gly Asp Pro Leu Gly Glu Met Arg Leu Val Ser
 225 230 235 240
 Arg Val Phe Glu Met
 245

<210> 8291

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 8291

Pro Val Gly Lys Ser Leu Arg Ala Asp Asp Ala Ala Gly Met Gly Gly
 1 5 10 15
 Gln Arg Arg Leu Leu Leu Thr Ala Gly Gln Leu Arg Arg Phe Ala Pro
 20 25 30
 Ala Ala Pro Ala Phe Pro Asn Cys His Ala Gly His Gly Ser Leu Pro
 35 40 45
 Ala His Thr Gln Arg Gly His His Arg Gly Thr Gly Ala Leu Ala Asp
 50 55 60
 Gly Gly Gly His Arg Arg Arg Gly Glu Arg Arg Gly Ser Asp Gln Pro
 65 70 75 80
 Ser His Thr Gln His Gly Leu Leu Ser Cys Ile

<210> 8292
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 8292
 Arg Pro Leu Trp Ile Arg Trp Gly Val Ala Lys Ser Ala Gly Ser Ile
 1 5 10 15
 Ser Gly Ser Leu Pro Trp Ser Ala Thr Cys Leu Met Arg Ser Ser
 20 25 30
 Val Ile Gln His Arg Val Gly Arg Lys Ala Arg Leu Arg Thr Cys
 35 40 45
 Arg Ile Pro Ala Asn Ala Cys Gly Lys Gly His Gln Thr Phe Lys Ala
 50 55 60
 Leu Leu Ile
 65

<210> 8293
 <211> 265
 <212> PRT
 <213> Enterobacter cloacae

<400> 8293
 Gly Glu Pro Met Met Gln His Glu Gly His Val Arg Ile Leu Lys Ser
 1 5 10 15
 Leu Lys Leu Phe Gly Met Ala His Ala Ile Glu Glu Leu Gly Asn Gln
 20 25 30
 Asn Ser Pro Ala Phe Asn Gln Ala Leu Pro Met Leu Asp Ser Leu Ile
 35 40 45
 Lys Ala Glu Val Ala Glu Arg Glu Val Arg Ser Val Asn Tyr Gln Leu
 50 55 60
 Arg Val Ala Lys Phe Pro Val Tyr Arg Asp Leu Val Gly Phe Asp Phe
 65 70 75 80
 Ser Gln Ser Leu Val Asn Glu Ala Thr Val Lys Gln Leu His Arg Cys
 85 90 95
 Asp Phe Met Glu Gln Ala Gln Asn Val Val Leu Ile Gly Gly Pro Gly
 100 105 110
 Thr Gly Lys Thr His Leu Ala Thr Ala Ile Gly Thr Gln Ala Val Met
 115 120 125
 His Leu Asn Arg Arg Val Arg Phe Phe Ser Thr Val Asp Leu Val Asn
 130 135 140
 Ala Leu Glu Gln Glu Lys Ser Ser Gly Arg Gln Gly Gln Ile Ala Asn
 145 150 155 160
 Arg Leu Leu Tyr Ala Asp Leu Val Ile Leu Asp Glu Leu Gly Tyr Leu
 165 170 175
 Pro Phe Ser Gln Thr Gly Gly Ala Leu Leu Phe His Leu Leu Ser Lys
 180 185 190
 Leu Tyr Glu Lys Thr Ser Val Ile Leu Thr Thr Asn Leu Ser Phe Ser
 195 200 205
 Glu Trp Ser Arg Val Phe Gly Asp Glu Lys Met Thr Thr Ala Leu Leu
 210 215 220
 Asp Arg Leu Thr His His Cys His Ile Leu Glu Thr Gly Asn Glu Ser
 225 230 235 240
 Tyr Arg Phe Lys His Ser Ser Thr Gln Asn Lys Gln Glu Glu Lys Gln
 245 250 255
 Thr Arg Lys Leu Lys Ile Glu Thr
 260 265

<210> 8294

<211> 116
 <212> PRT
 <213> Enterobacter cloacae

<400> 8294

Lys Pro Pro Leu Arg Arg Tyr His Arg Cys Val Arg Ser Arg Phe Trp
 1 5 10 15
 Thr Ser Cys Val Ser Ala Tyr Ala Thr Cys Ile Thr Ala Tyr Gln Pro
 20 25 30
 Asn Arg Leu Met Ser Thr Gly Phe Val Pro Ser Ser Val Ser Thr Val
 35 40 45
 Cys Val Thr Arg Gln Pro Trp Ala Ala Ala Lys Ser Arg His Phe Cys
 50 55 60
 Pro Gly Trp Arg Thr Ser Ala Arg Phe Arg Ser Pro Arg Ile Val Arg
 65 70 75 80
 His Trp Arg Pro Cys Cys Ser Ser Thr Ala Arg Cys Cys Ala Arg Ile
 85 90 95
 Cys Pro Gly Phe Arg Arg Ser Glu Asp Leu Ala Arg Arg Gly Ala Cys
 100 105 110
 Arg Trp Cys
 115

<210> 8295
 <211> 1008
 <212> PRT
 <213> Enterobacter cloacae

<400> 8295

Leu Arg His Gln Pro Arg Asn Leu Val Pro Val Pro Ala Gly Arg Leu
 1 5 10 15
 Thr Met Pro Arg Arg Ser Ile Leu Ser Ala Thr Glu Arg Glu Ser Leu
 20 25 30
 Leu Ala Leu Pro Asp Ala Lys Asp Glu Leu Ile Arg His Tyr Thr Phe
 35 40 45
 Asn Glu Thr Asp Leu Ser Val Ile Arg Gln Arg Arg Gly Ala Ala Asn
 50 55 60
 Arg Leu Gly Phe Ala Val Gln Leu Cys Tyr Leu Arg Phe Pro Gly Thr
 65 70 75 80
 Phe Leu Gly Val Asp Glu Pro Pro Phe Pro Pro Leu Leu Arg Met Val
 85 90 95
 Ala Ala Gln Leu Lys Met Pro Val Glu Ser Trp Ser Glu Tyr Gly Gln
 100 105 110
 Arg Glu Gln Thr Arg Arg Glu His Leu Val Glu Leu Gln Thr Val Phe
 115 120 125
 Gly Phe Lys Pro Phe Thr Met Ser His Tyr Arg Gln Ala Val His Thr
 130 135 140
 Leu Thr Glu Leu Ala Leu Gln Thr Asp Lys Gly Ile Val Leu Ala Ser
 145 150 155 160
 Ala Leu Val Glu Asn Leu Arg Arg Gln Ser Ile Leu Pro Ala Met
 165 170 175
 Asn Ala Ile Glu Arg Ala Ser Ala Glu Ala Ile Thr Arg Ala Asn Arg
 180 185 190
 Arg Ile Tyr Ala Ala Leu Thr Asp Ser Leu Leu Ser Pro His Arg Gln
 195 200 205
 Arg Leu Asp Glu Leu Leu Lys Arg Lys Asp Gly Ser Lys Val Thr Trp
 210 215 220
 Leu Ala Trp Leu Arg Gln Ser Pro Ala Lys Pro Asn Ser Arg His Met
 225 230 235 240
 Leu Glu His Ile Glu Arg Leu Lys Ser Trp Gln Ala Leu Asp Leu Pro
 245 250 255
 Ala Gly Ile Glu Arg Gln Val His Gln Asn Arg Leu Leu Lys Ile Ala

[illegible]

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Leu Asp Gly Leu Leu Tyr His Glu Ser Asp Leu Arg Ile Glu Glu His
755 760 765
Tyr Thr Asp Thr Ala Gly Phe Trp Asp His Val Phe Gly Leu Met His
770 775 780
Leu Leu Gly Phe Arg Phe Ala Pro Arg Ile Arg Asp Leu Gly Glu Thr
785 790 795 800
Lys Leu Phe Ile Pro Lys Gly Asp Ala Ala Tyr Asp Ala Leu Lys Pro
805 810 815
Met Ile Ser Ser Asp Arg Leu Asn Ile Lys Gln Ile Arg Ala His Trp
820 825 830
Asp Glu Ile Leu Arg Leu Ala Thr Ser Ile Lys Gln Gly Thr Val Thr
835 840 845
Ala Ser Leu Met Leu Arg Lys Leu Gly Ser Tyr Pro Arg Gln Asn Gly
850 855 860
Leu Ala Val Ala Leu Arg Glu Leu Gly Arg Ile Glu Arg Thr Leu Phe
865 870 875 880
Ile Leu Asp Trp Leu Gln Ser Val Glu Leu Arg Arg Val His Ala
885 890 895
Gly Leu Asn Lys Gly Glu Ala Arg Asn Ala Leu Ala Arg Ala Val Phe
900 905 910
Phe Tyr Arg Leu Gly Glu Ile Arg Asp Arg Ser Phe Glu Gln Gln Arg
915 920 925
Tyr Arg Ala Ser Gly Leu Asn Leu Val Thr Ala Ala Ile Val Leu Trp
930 935 940
Asn Thr Val Tyr Leu Glu Arg Ala Thr Ser Ala Leu Arg Gly Asn Gly
945 950 955 960
Thr Ala Leu Asp Asp Thr Leu Leu Gln Tyr Leu Ser Pro Leu Gly Trp
965 970 975
Glu His Ile Asn Leu Thr Gly Asp Tyr Leu Trp Arg Ser Ser Ala Lys
980 985 990
Val Gly Ala Gly Lys Phe Arg Pro Leu Arg Pro Leu Pro Ala
995 1000 1005

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<210> 8296

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 8296

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Gly Gln Ala Phe Ile Arg Arg Thr Ile Met Glu Asn Ile Ala Leu Ile
1 5 10 15
Gly Ile Asp Leu Gly Lys Asn Ser Phe His Ile His Cys Gln Asp His
20 25 30
Arg Gly Lys Ala Val Tyr Arg Lys Lys Phe Thr Arg Pro Lys Leu Ile
35 40 45
Glu Phe Leu Ala Thr Cys Pro Ala Thr Thr Ile Ala Met Glu Ala Cys
50 55 60
Gly Gly Ser His Phe Met Ala Arg Lys Leu Glu Glu Leu Gly His Phe
65 70 75 80
Pro Lys Leu Ile Ser Pro Gln Phe Val Arg Pro Phe Val Lys Ser Asn
85 90 95
Lys Asn Asp Phe Val Asp Ala Glu Ala Ile Cys Glu Ala Ala Ser Arg
100 105 110
Pro Ser Met Arg Phe Val Gln Pro Arg Thr Glu Ser Gln Gln Ala Met
115 120 125
Arg Ala Leu His Arg Val Arg Glu Ser Leu Val Gln Asp Lys Val Lys
130 135 140
Thr Thr Asn Gln Met His Ala Phe Leu Leu Glu Phe Gly Ile Ser Val
145 150 155 160
Pro Arg Gly Ala Val Ile Ser Arg Leu Ser Thr Leu Leu Glu Asp
165 170 175

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Ser Ser Leu Pro Leu Tyr Leu Ser Gln Leu Leu Leu Lys Leu Gln Gln
 180 185 190
 His Tyr His Tyr Leu Val Glu Gln Ile Lys Asp Leu Glu Ser Gln Leu
 195 200 205
 Lys Arg Lys Leu Asp Glu Asp Glu Val Gly Gln Arg Leu Leu Ser Ile
 210 215 220
 Pro Cys Val Gly Thr Leu Thr Ala Ser Thr Ile Ser Thr Glu Ile Gly
 225 230 235 240
 Asp Gly Lys Gln Tyr Ala Ser Ser Arg Asp Phe Ala Ala Ala Thr Gly
 245 250 255
 Leu Val Pro Arg Gln Tyr Ser Thr Gly Gly Arg Thr Thr Leu Leu Gly
 260 265 270
 Ile Ser Lys Arg Gly Asn Lys Lys Ile Arg Thr Leu Leu Val Gln Cys
 275 280 285
 Ala Arg Val Phe Ile Gln Lys Leu Glu His Gln Ser Gly Lys Leu Ala
 290 295 300
 Asp Trp Val Arg Glu Leu Leu Cys Arg Lys Ser Asn Phe Val Val Thr
 305 310 315 320
 Cys Ala Leu Ala Asn Lys Leu Ala Arg Ile Ala Trp Ala Leu Thr Ala
 325 330 335
 Arg Gln Gln Thr Tyr Glu Ala
 340

<210> 8297

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 8297

Arg Trp Gly Glu Arg Thr Tyr Arg Ala Arg Leu Pro Gly Ala Arg Leu
 1 5 10 15
 Val Thr Ala Gly Gly Leu His His Gly Arg Leu Arg Arg Val Arg Arg
 20 25 30
 Cys Gly Leu Ala Thr Ala Val Leu Arg Ala Arg Gly Leu Arg Gly Gly
 35 40 45
 Tyr Arg Pro Gly Cys Pro Gly Ala Ala Val Pro Cys Ala Arg Arg Ser
 50 55 60
 Gly Arg Arg Thr Ser Arg Ser Ala Ala Cys Arg Ala Ala Pro Val Gly
 65 70 75 80
 Arg Ala Ala Ala Arg Gly Val Gly Pro Ser Gly Arg Ala Thr Gly Leu
 85 90 95
 His Ala Ser Arg Ala Gly Ala Arg Gly Gly Ile Ala Val Asn Ala Pro
 100 105 110
 Asp Lys Leu Pro Pro Glu Thr Arg Gln Pro Val Ser Gly Tyr Leu Trp
 115 120 125
 Gly Ala Leu Ala Val Leu Thr Cys Pro Cys His Leu Pro Ile Leu Ala
 130 135 140
 Ala Val Leu Ala Gly Thr Thr Ala Gly Ala Phe Leu Gly Glu His Trp
 145 150 155 160
 Gly Val Ala Ala Leu Ala Leu Thr Gly Leu Phe Val Leu Ala Val Thr
 165 170 175
 Arg Leu Leu Arg Ala Phe Arg Gly Gly Ser
 180 185

<210> 8298

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 8298

Gly Val Val Ala Val Asp Glu Tyr Pro Ile Ile Asp Leu Ser His Leu

1 5 10 15
 Leu Pro Ala Ala Gln Gly Leu Ala Arg Leu Pro Ala Asp Glu Arg Ile
 20 25 30
 Gln Arg Leu Arg Ala Asp Arg Trp Ile Gly Tyr Pro Arg Ala Val Glu
 35 40 45
 Ala Leu Asn Arg Leu Glu Ala Leu Tyr Ala Trp Pro Asn Lys Gln Arg
 50 55 60
 Met Pro Asn Leu Leu Leu Val Gly Pro Thr Asn Asn Gly Lys Ser Met
 65 70 75 80
 Ile Val Glu Lys Phe Arg Arg Thr His Pro Ala Ser Ser Asp Ala Asp
 85 90 95
 Gln Glu His Ile Pro Val Leu Val Val Gln Met Pro Ser Glu Pro Ser
 100 105 110
 Val Ile Arg Phe Tyr Val Ala Leu Leu Ala Ala Met Gly Ala Pro Leu
 115 120 125
 Arg Pro Arg Pro Arg Leu Pro Glu Met Glu Gln Leu Ala Leu Ala Leu
 130 135 140
 Leu Arg Lys Val Gly Val Arg Met Leu Val Ile Asp Glu Leu His Asn
 145 150 155 160
 Val Leu Ala Gly Asn Ser Val Asn Arg Arg Glu Phe Leu Asn Leu Leu
 165 170 175
 Arg Phe Leu Gly Asn Glu Leu Arg Ile Pro Leu Val Gly Val Gly Thr
 180 185 190
 Arg Asp Ala Tyr Leu Ala Ile Arg Ser Asp Asp Gln Leu Glu Asn Arg
 195 200 205
 Phe Glu Pro Met Met Leu Pro Val Trp Glu Ala Asn Asp Asp Cys Cys
 210 215 220
 Ser Leu Leu Ala Ser Phe Ala Ala Ser Leu Pro Leu Arg Arg Pro Ser
 225 230 235 240
 Pro Ile Ala Thr Leu Asp Met Ala Arg Tyr Leu Leu Thr Arg Ser Glu
 245 250 255
 Gly Thr Ile Gly Glu Leu Ala His Leu Leu Met Ala Ala Ala Ile Val
 260 265 270
 Ala Val Glu Ser Gly Glu Glu Ala Ile Asn His Arg Thr Leu Ser Met
 275 280 285
 Ala Cys
 290

<210> 8299

<211> 206

<212> FRT

<213> *Enterobacter cloacae*

<400> 8299

Leu Thr Tyr Ser Val Lys Gly Asn Arg Phe His Pro Asp Thr Phe Ala
 1 5 10 15
 Phe Gly Gly Ile Leu Gln Gly Gln Arg Ile Gly Tyr Val Arg Val Ser
 20 25 30
 Ser Phe Asp Gln Asn Pro Glu Arg Gln Leu Glu Gly Val Gln Val Ala
 35 40 45
 Arg Val Phe Thr Asp Lys Ala Ser Gly Lys Asp Thr Gln Arg Pro Glu
 50 55 60
 Leu Glu Arg Leu Leu Ala Phe Val Arg Glu Gly Asp Thr Val Val Val
 65 70 75 80
 His Ser Met Asp Arg Leu Ala Arg Asn Leu Asp Asp Leu Arg Arg Ile
 85 90 95
 Val Gln Gly Leu Thr Gln Arg Gly Val Arg Met Glu Phe Val Lys Glu
 100 105 110
 Gly Leu Lys Phe Thr Gly Glu Asp Ser Pro Met Ala Asn Leu Met Leu
 115 120 125
 Ser Val Met Gly Ala Phe Ala Glu Phe Glu Arg Ala Leu Ile Arg Glu

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      130              135              140
Arg Gln Arg Glu Gly Ile Val Leu Ala Lys Gln Arg Gly Ala Tyr Arg
145              150              155              160
Gly Arg Lys Lys Ser Leu Asn Ser Glu Gln Ile Ala Glu Leu Lys Arg
      165              170              175
Arg Val Ala Ala Gly Asp Gln Lys Thr Leu Val Ala Arg Asp Phe Gly
      180              185              190
Ile Ser Arg Glu Thr Leu Tyr Gln Tyr Leu Arg Glu Asp
      195              200              205

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<210> 8300
<211> 145
<212> PRT
<213> Enterobacter cloacae

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<400> 8300
Ala His Ser Gly Thr Ala Asn Phe Gln His Met Arg Val Asn His Arg
1              5              10              15
Arg Arg Asp Val Gly Met Ala Glu Gln Ile Leu His Gly Ser Asn Val
      20              25              30
Val Thr Ala Ala Glu Gln Gly Arg Arg Glu Arg Val Ala Glu Gly Val
      35              40              45
Arg Cys Gly Gly Leu Arg Asp Ala Cys Leu Phe Tyr Gly Thr Phe Glu
      50              55              60
Gly Ala Leu Lys Gly Leu Val Ile His Val Met Ala Thr His Asp Thr
      65              70              75              80
Ala Pro Trp Ile Gly Arg Met Arg Val Leu Arg Lys Asn Pro Glu Pro
      85              90              95
Arg Pro Gly Met Pro Gly Ala Arg Ile Leu Pro Leu Lys Gly Val Gly
      100              105              110
Lys Arg Asn Ala Ala Ala Leu Gly Leu Val Leu Gln Pro Pro Cys
      115              120              125
Pro Cys Thr Arg Gln Leu Leu Ala Gln Ala Gly Cys Gln Ala Leu Gly
      130              135              140

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145

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<210> 8301
<211> 149
<212> PRT
<213> Enterobacter cloacae

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<400> 8301
His Gln Gly Pro Ile Leu Gly Ala Leu Ala Leu Pro His Asp Asp Arg
1              5              10              15
Ala Val Ile Glu Ile Gln Ile Leu Asp Pro Gln Leu Gln Thr Leu Thr
      20              25              30
Asp Pro His Ala Arg Ser Ile Gln Lys Leu Gly Glu Gln Thr Met Leu
      35              40              45
Ala Phe Gln Lys Thr Glu Asp Ala Asn His Phe Ile Arg Gly Gln His
      50              55              60
His Arg Gln Ala Pro Arg Arg Ala Arg Ser Ser Asp Leu Leu Lys Pro
      65              70              75              80
Gly Gln Ile Arg Ala Gln His Leu Ala Val Glu Glu Gln Gln Gly Arg
      85              90              95
Gln Cys Leu Thr Met Arg Gly Asp Arg Asn Leu Ala Leu Val Arg Gln
      100              105              110
Pro Gly Gln Lys Cys Leu Asp Phe Ala Ala Ala Gln Gly Cys Arg Val
      115              120              125
Thr His Thr Val Glu Thr Asp Glu Gly Thr Asn Pro Val Asp Ile Ser
      130              135              140

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Leu Phe Gly Trp
145

<210> 8302

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 8302

Cys Val Gly Leu Cys Arg Tyr Gly Ala His Asn Cys Cys Leu Phe Ala
1 5 10 15
Arg Pro Ile Pro Ile Val Glu Val Ala Ala Glu Ala Asp Ala Met Val
20 25 30
Thr Val Phe Gly Ile Leu Asn Leu Thr Glu Asp Ser Phe Phe Asp Glu
35 40 45
Ser Arg Arg Leu Asp Pro Ala Gly Ala Val Thr Ala Ala Ile Glu Met
50 55 60
Leu Arg Val Gly Ser Asp Val Val Asp Val Gly Pro Ala Ala Ser His
65 70 75 80
Pro Asp Ala Arg Pro Val Ser Pro Ala Asp Glu Ile Arg Arg Ile Ala
85 90 95
Pro Leu Leu Asp Ala Leu Ser Asp Gln Met His Arg Val Ser Ile Asp
100 105 110
Ser Phe Gln Pro Glu Thr Gln Arg Tyr Ala Leu Lys Arg Gly Val Gly
115 120 125
Tyr Leu Asn Asp Ile Gln Gly Phe Pro Asp Pro Ala Leu Tyr Pro Asp
130 135 140
Ile Ala Glu Ala Asp Cys Arg Leu Val Val Met His Ser Ala Gln Arg
145 150 155 160
Asp Gly Ile Ala Thr Arg Thr Gly His Leu Arg Pro Glu Asp Ala Leu
165 170 175
Asp Glu Ile Val Arg Phe Phe Glu Ala Arg Val Ser Ala Leu Arg Arg
180 185 190
Ser Gly Val Ala Ala Asp Arg Leu Ile Leu Asp Pro Gly Met Gly Phe
195 200 205
Phe Leu Ser Pro Ala Pro Glu Thr Ser Leu His Val Leu Ser Asn Leu
210 215 220
Gln Lys Leu Lys Ser Ala Leu Gly Leu Pro Leu Leu Val Ser Val Ser
225 230 235 240
Arg Lys Ser Phe Leu Gly Ala Thr Val Gly Leu Pro Val Lys Asp Leu
245 250 255
Gly Pro Ala Ser Leu Ala Ala Glu Leu His Ala Ile Gly Asn Gly Ala
260 265 270
Asp Tyr Val Arg Thr His Ala Pro Gly Asp Leu Arg Ser Ala Ile Thr
275 280 285
Phe Ser Glu Thr Leu Ala Lys Phe Arg Ser Arg Asp Ala Arg Asp Arg
290 295 300
Gly Leu Asp His Ala
305 310

<210> 8303

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 8303

Arg Met Arg Ser Arg Asn Trp Ser Arg Thr Leu Thr Glu Arg Ser Gly
1 5 10 15
Gly Asn Gly Ala Val Ala Val Phe Met Ala Cys Tyr Asp Cys Phe Phe
20 25 30
Val Gln Ser Met Pro Arg Ala Ser Lys Gln Gln Ala Arg Tyr Ala Val

35 40 45
 Gly Arg Cys Leu Met Leu Trp Ser Ser Asn Asp Val Thr Gln Gln Gly
 50 55 60
 Ser Arg Pro Lys Thr Lys Leu Gly Arg Met Asp Thr Thr Gln Val Thr
 65 70 75 80
 Leu Ile His Lys Ile Leu Ala Ala Ala Asp Glu Arg Asn Leu Pro Leu
 85 90 95
 Trp Ile Gly Gly Gly Trp Ala Ile Asp Ala Arg Leu Gly Arg Val Thr
 100 105 110
 Arg Lys His Asp Asp Ile Asp Leu Thr Phe Pro Gly Glu Arg Arg Gly
 115 120 125
 Glu Leu Glu Ala Ile Val Glu Met Leu Gly Gly Arg Val Met Glu Glu
 130 135 140
 Leu Asp Tyr Gly Phe Leu Ala Glu Ile Gly Asp Glu Leu Leu Asp Cys
 145 150 155 160
 Glu Pro Ala Trp Trp Ala Asp Glu Ala Tyr Glu Ile Ala Glu Ala Pro
 165 170 175
 Gln Gly Ser Cys Pro Glu Ala Ala Glu Gly Val Ile Ala Gly Arg Pro
 180 185 190
 Val Arg Cys Asn Ser Trp Glu Ala Ile Ile Trp Asp Tyr Phe Tyr Tyr
 195 200 205
 Ala Asp Glu Val Pro Pro Val Asp Trp Pro Thr Lys His Ile Glu Ser
 210 215 220
 Tyr Arg Leu Ala Cys Thr Ser Leu Gly Ala Glu Lys Val Glu Val Leu
 225 230 235 240
 Arg Ala Ala Phe Arg Ser Arg Tyr Ala Ala
 245 250

<210> 8304

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 8304

Ala Cys Ile Ile Ser Pro Thr Gln Ile Gly Arg Tyr Ile Met Lys Gly
 1 5 10 15
 Trp Leu Phe Leu Val Ile Ala Ile Val Gly Glu Val Ile Ala Thr Ser
 20 25 30
 Ala Leu Lys Ser Ser Glu Gly Phe Thr Lys Leu Ala Pro Ser Ala Val
 35 40 45
 Val Ile Ile Gly Tyr Gly Ile Ala Phe Tyr Phe Leu Ser Leu Val Leu
 50 55 60
 Lys Ser Ile Pro Val Gly Val Ala Tyr Ala Val Trp Ser Gly Leu Gly
 65 70 75 80
 Val Val Ile Ile Thr Ala Ile Ala Trp Leu Leu His Gly Gln Lys Leu
 85 90 95
 Asp Ala Trp Gly Phe Val Gly Met Gly Leu Ile Ile Ala Ala Phe Leu
 100 105 110
 Leu Ala Arg Ser Pro Ser Trp Lys Ser Leu Arg Arg Pro Thr Pro Trp
 115 120 125

<210> 8305

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 8305

Arg Thr Leu Val Arg Phe Arg Glu Gly Gly Arg Arg His Ala Gly Leu
 1 5 10 15

Val Arg Ile Lys Leu His Tyr Glu Ala Val His Thr Ala Pro Gly
 20 25 30
 Glu Arg Met Asp Ser Glu Glu Pro Pro Asn Val Arg Val Ala Cys Ser
 35 40 45
 Gly Asp Ile Asp Glu Val Val Arg Leu Met His Asp Ala Ala Trp
 50 55 60
 Met Ser Ala Lys Gly Thr Pro Ala Trp Asp Val Ala Arg Ile Asp Arg
 65 70 75 80
 Thr Phe Ala Glu Thr Phe Val Leu Arg Ser Glu Leu Leu Val Ala Ser
 85 90 95
 Cys Ser Asp Gly Ile Val Gly Cys Cys Thr Leu Ser Ala Glu Asp Pro
 100 105 110
 Glu Phe Trp Pro Asp Ala Leu Lys Gly Glu Ala Ala Tyr Leu His Lys
 115 120 125
 Leu Ala Val Arg Arg Thr His Ala Gly Arg Gly Val Ser Ser Ala Leu
 130 135 140
 Ile Glu Ala Cys Arg His Ala Ala Arg Thr Gln Gly Cys Ala Lys Leu
 145 150 155 160
 Arg Leu Asp Cys His Pro Asn Leu Arg Gly Leu Tyr Glu Arg Leu Gly
 165 170 175
 Phe Thr His Val Asp Thr Phe Asn Pro Gly Trp Asp Pro Thr Phe Ile
 180 185 190
 Ala Glu Arg Leu Glu Leu Glu Ile
 195 200

<210> 8306

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 8306

Ser Ser Lys Gly Leu Pro Leu Ile Cys Gln Ser Ile Ser Thr Phe Ser
 1 5 10 15
 Pro Ser Ser Gln Gly Arg Leu Ser Gln Ala Thr Cys Thr Arg His Arg
 20 25 30
 Pro Thr Glu Thr Ala Asp Gly Ala Ser Ser Val Thr Thr Met Pro Ser
 35 40 45
 Thr Gln Arg Val Asn Thr Ser Met Ala Arg Val Arg Tyr Gly Arg Pro
 50 55 60
 Ile Gly Cys Arg Ser Arg Ser Ser Thr Thr Ile Arg Ser Met Thr Val
 65 70 75 80
 Trp Ser Ile Cys Thr Cys Ser Ser Gly Ala Val Thr Ala Gly Gly Ser
 85 90 95
 Pro Pro Thr Pro Cys Arg Ser Arg Ala Ala Ser Trp Pro Ser Arg Arg
 100 105 110
 Arg Met Thr Leu Arg Gly Ser Arg Leu Ala Ile Arg Lys Ala Thr Val
 115 120 125
 Leu Arg Ala Gly Thr Arg Ser Phe
 130 135

<210> 8307

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 8307

Lys Ala Ala Arg Leu Arg Phe Cys Leu Val Arg Asn Arg Phe Cys Ser
 1 5 10 15
 Ser Ser Trp Met Thr Arg Ser Thr Gly Ser Gly Lys Arg Pro Leu Pro
 20 25 30
 Leu Pro Pro Pro Asp Trp Pro Gly Thr Arg Ser Val Thr Arg Pro Leu

35 40 45
 Pro Cys Arg Ala Arg Arg Ile Arg Thr Tyr Thr Trp Arg Arg Asp Lys
 50 55 60
 Pro Ser Ala
 65

<210> 8308
 <211> 70
 <212> PRT
 <213> Enterobacter cloacae

<400> 8308
 Ala Ala Ile Ser Ala Ala Ser Cys Pro Thr Val Ser Asp Cys Ala Asn
 1 5 10 15
 Gly Leu Met Ile Ser Ala Arg Arg Arg Ala Arg Ser Gln Ala Ser Ser
 20 25 30
 Gly Arg Val Ala Thr Pro Cys Ser Gly Ile Arg Gly Val Ser Ala Ala
 35 40 45
 Met Leu Thr Ser Leu Trp Cys Thr Arg Val Leu Ser Ile Val Glu Ile
 50 55 60
 Gly Ala Asp His Phe
 65 70

<210> 8309
 <211> 159
 <212> PRT
 <213> Enterobacter cloacae

<400> 8309
 Ser Ala Pro Glu Gly Ala Gln Gln Pro Arg Tyr Gly Gln Asn Glu Gln
 1 5 10 15
 Ala Gly Gln Arg Glu Arg Gly Asn Thr Pro Met Leu Ala Lys Glu Gly
 20 25 30
 Thr Gly Gly Arg Pro Gly Gln His Gly Gly Glu Asn Arg Gln Met Ala
 35 40 45
 Gly Ala Gly Gln His Gly Gln Arg Thr Pro Gln Val Ala Gly Asn Gly
 50 55 60
 Leu Ala Arg Leu Gly Arg Gln Phe Val Arg Gly Val His Gly Asn Ala
 65 70 75 80
 Ser Ser Cys Ala Arg Ser Ala Gly Met Glu Ala Ser Cys Ala Ser Arg
 85 90 95
 Trp Ala Asn Ala Ala Arg Arg Arg Ser Thr Asn Trp Arg Ser Thr Ala
 100 105 110
 Ser Cys Ala Ala Cys Ala Pro Ser Ala Ala Ser Ser Ala Arg His
 115 120 125
 Ser Arg Ala Arg Ala Ser Arg Pro Ile Pro Ala Ser Lys Ala Ala Arg
 130 135 140
 Thr Lys His Ser Arg Cys Lys Ala Ala Ser Ser Asn Thr Pro
 145 150 155

<210> 8310
 <211> 137
 <212> PRT
 <213> Enterobacter cloacae

<400> 8310
 Gly Arg Met Ser Glu Ala Leu Lys Ser Leu Asn Asn Ile Arg Thr Leu
 1 5 10 15
 Arg Ala Gln Gly Arg Glu Leu Pro Leu Glu Val Leu Glu Glu Ile Leu
 20 25 30
 Glu Lys Leu Asn Val Ile Val Asp Glu Arg Arg Gln Glu Glu Ser Ser

35 40 45
 Lys Ala Ala Glu Leu Gln Ala Arg Gln Glu Lys Leu Asp Ala Leu Arg
 50 55 60
 Lys Leu Met Glu Glu Asp Gly Ile Asn Pro Glu Glu Leu Leu Gly Ser
 65 70 75 80
 Phe Gln Ala Lys Ser Thr Ala Thr Lys Lys Ser Arg Glu Pro Arg Pro
 85 90 95
 Ala Lys Tyr Ser Phe Thr Asp Glu Asn Gly Glu Thr Lys Thr Trp Thr
 100 105 110
 Gly Gln Gly Arg Thr Pro Lys Ala Leu Ala Glu Gln Ile Ala Ala Gly
 115 120 125
 Lys Ser Leu Asp Asp Phe Leu Ile
 130 135

<210> 8311

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 8311

Phe Met Tyr Ser Tyr Glu Asp Arg Leu Arg Ala Val Arg Leu Tyr Leu
 1 5 10 15
 Lys Leu Gly Arg Arg Met Ser Ala Thr Leu Arg Gln Leu Gly Tyr Pro
 20 25 30
 Thr Lys Asn Ser Leu Lys Ala Trp Leu Ala Glu Phe Glu Arg Asn Gln
 35 40 45
 Asp Leu Arg Arg Gly Tyr Gln Arg Ile Lys Arg Gln Tyr Thr Asp Glu
 50 55 60
 Gln Lys Gln Arg Ala Val Asp His Tyr Ile Glu Gln Gly Tyr Cys Leu
 65 70 75 80
 Ser His Thr Ile Arg Ser Leu Gly Tyr Pro Ser Arg Glu Ala Leu Arg
 85 90 95
 Ala Trp Ile Arg Asp Leu Arg Pro Glu Phe Ala Arg Thr Val Val Gly
 100 105 110
 Ser Ser Ala Pro Thr Val Ala Arg Ser Arg Leu Glu Lys Gln Gln Ala
 115 120 125
 Val Ile Ala Leu Asn Leu Arg Val Gly Ser Ala Lys Asp Val Ala Asp
 130 135 140
 Thr Val Gly Val Ser Arg Pro Thr Leu Tyr Asn Trp Gln His Arg Leu
 145 150 155 160
 Leu Gly Lys Val Pro Leu Lys Pro Met Thr Lys Lys Lys Gly Asp Thr
 165 170 175
 Ser Leu Glu Gln Arg His Glu Ala Leu Leu Arg Glu Leu Ala Glu Leu
 180 185 190
 Glu Ser Gln Asn Gln Arg Leu Arg Met Glu Asn Ala Ile Leu Glu Lys
 195 200 205
 Ala Ser Glu Leu Ile Lys Lys Asp Met Gly Ile Asn Pro Leu Glu Leu
 210 215 220
 Thr Ser Arg Glu Lys Thr Lys Val Val Asp Ala Leu Arg Val Thr Phe
 225 230 235 240
 Pro Leu Ala Asn Leu Cys Gly Leu Lys Leu Ala Arg Ser Thr Tyr
 245 250 255
 Phe Tyr Gln Arg Leu Arg Gln Thr Arg Pro Asp Lys Tyr Thr Gln Val
 260 265 270
 Arg Glu Val Ile Arg Thr Ile Phe Glu Asp Asn Tyr Arg Cys Tyr Gly
 275 280 285
 Tyr Arg Arg Ile Asp Ser Ala Leu Arg Leu Gly Gly Met Arg Val Ser
 290 295 300
 Glu Lys Val Val Arg Arg Leu Met Ala Gln Glu Arg Leu Val Val Arg
 305 310 315 320
 Thr Pro Arg Arg Arg Arg Phe Ser Ala Tyr Ala Gly Asp Pro Thr Pro

325 330 335
 Ala Val Pro Asn Leu Leu Asn Arg Asp Phe His Ala Ser Ala Pro Asn
 340 345 350
 Thr Lys Trp Leu Thr Asp Leu Thr Glu Ile His Ile Pro Ala Gly Lys
 355 360 365
 Val Tyr Val Ser Pro Ile Val Asp Cys Phe Asp Gly Leu Val Val Ala
 370 375 380
 Trp Asn Ile Gly Thr Ser Pro Asp Ala Asn Leu Val Asn Thr Met Leu
 385 390 395 400
 Asp His Ala Val Arg Thr Leu Arg Pro Gly Glu His Pro Val Ile His
 405 410 415
 Ser Asp Arg Gly Ser His Tyr Arg Trp Pro Ala Trp Ile Arg Arg Thr
 420 425 430
 Glu Asn Ala Gln Leu Thr Arg Ser Met Ser Lys Lys Gly Cys Ser Pro
 435 440 445
 Asp Asn Ala Ala Cys Glu Gly Phe Phe Gly Arg Leu Lys Thr Glu Leu
 450 455 460
 Ile Tyr Pro Arg Asn Trp Gln His Val Thr Leu Lys Asp Leu Met Thr
 465 470 475 480
 Arg Ile Asp Ala Tyr Ile His Trp Tyr Asn Glu Arg Arg Ile Lys Val
 485 490 495
 Ser Leu Gly Gly Arg Ser Pro Ile Glu Tyr Arg His Ala Val Gly Leu
 500 505 510
 Met Ser Val
 515

<210> 8312

<211> 238

<212> PRT

<213> Enterobacter cloacae

<400> 8312

Cys Thr His His Leu Asn Thr Phe Asp Gly Gly Val Ser Arg Leu His
 1 5 10 15
 Gly Phe Lys Ser Gln Arg Gly Ala Asp Tyr Pro Phe Gln Phe Ala Met
 20 25 30
 Ile Ala Phe Asn His Val Val Pro Val Leu Asn Leu Ser Val Phe Asn
 35 40 45
 Val Arg Arg Ala Pro Ala Phe Ala Phe Glu Gln Ser Lys Arg Ala Thr
 50 55 60
 Ile Gly Gly Arg Phe Ile Arg Val Asp Glu Ser Arg Asp Leu Pro Leu
 65 70 75 80
 Leu His Val Val Glu Asp Phe Thr Gln Lys Pro Val Cys Ser Phe Ala
 85 90 95
 Val Thr Thr Gly Glu Ile Lys Ile Asp Ser Ala Ala Pro Ala Val
 100 105 110
 Asp Gly Pro Val Gln Ile Arg Pro Ala Ala Ile Asp Leu His Val Gly
 115 120 125
 Phe Ile His Val Pro Arg Ala Lys Ile Gly Arg Val Thr Pro Val Pro
 130 135 140
 Ala Gln Pro Phe Phe His Phe Arg Arg Ile Thr Leu Asn Pro Ala Val
 145 150 155 160
 Asn Arg Gly Val Ile Asp Ile His Ser Ala Phe Ser Gln His Leu Leu
 165 170 175
 Gln Leu Thr Val Thr Asp Ala Val Phe Ala Val Pro Ala Tyr Gly Pro
 180 185 190
 Gln Asn Asp Val Thr Leu Lys Met Pro Ala Phe Glu Trp Val His Val
 195 200 205
 Gln Leu His Gln Gln Lys Gly Met Ile Ser Leu Ser Pro Pro Thr Ile
 210 215 220
 Cys Asn Ser Ala His Arg Arg Ser Ser Gly Cys Gly Arg

225

230

235

<210> 8313

<211> 411

<212> PRT

<213> *Enterobacter cloacae*

<400> 8313

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Pro Ser Ile Ile Lys Glu Ile Ile Met Gly Phe Arg Phe Arg Lys Ser
1          5          10          15
Ile Asn Ile Ile Pro Gly Val Arg Leu Asn Leu Ser Asn Gly Ala Pro
20          25          30
Ser Leu Ser Val Gly Pro Arg Gly Ala Ser Val Ser Phe Gly Ser Arg
35          40          45
Gly Thr Tyr Ala Asn Leu Gly Leu Pro Gly Thr Gly Leu Ser Tyr Arg
50          55          60
Thr Arg Leu Asp Arg Ala Ala Arg Ser Gly Gly Gly Asn Arg Thr Ala
65          70          75          80
Thr Asp Pro Gly Leu Arg Gln Ala Leu Glu Gln Glu Ala Ala Glu Leu
85          90          95
Met Ser Ala Val Thr Ala Ile Arg Asn Ile His Glu Leu Thr Pro Asp
100          105          110
Pro Lys Thr Gly Ile Ser Trp Ala Glu Leu Glu Ala Val Tyr Leu His
115          120          125
Asn Arg Thr Ser Pro Phe Gln Val Pro Ala Pro Val Arg Pro Glu Lys
130          135          140
Pro Asp Tyr Leu Ala Leu Pro Glu Lys Pro Ala Glu Ser Glu Gly Ile
145          150          155          160
Ser Phe Leu Gly Lys Trp Phe Glu Ser Glu Ser Ala Lys Ala Glu Arg
165          170          175
His Ala Glu Asn Leu Arg Arg Trp Gln Gln Glu Leu Ile Asp Val Glu
180          185          190
Arg Glu Asn Thr Leu Arg Gln His Arg Tyr Gln Gln Gln Arg Thr Ala
195          200          205
Trp Ala Glu Gln Tyr Ala Asn Trp Lys Phe Glu Ala Glu Glu His Glu
210          215          220
Lys Arg Leu Ala Thr Ala Gln Ala Asp Ala Arg Gln Gln Phe Arg Thr
225          230          235          240
Asp Ala Ala Phe Phe Glu Ser Tyr Leu Ala Gly Val Leu Ala Glu Thr
245          250          255
Glu Trp Pro Arg Glu Thr Ile Val Ala Phe Glu Val Lys Pro Glu Leu
260          265          270
Ser Ala Val Leu Leu Asp Val Asp Leu Ala Glu Ile Glu Asp Phe Pro
275          280          285
Asp Lys Ile Tyr Gly Val Asn Ala Arg Gly Thr Glu Leu Thr Glu Lys
290          295          300
Ala Met Thr Gln Lys Ala Val Arg Glu Asn Tyr Ala Arg His Val His
305          310          315          320
Gly Cys Leu Phe Arg Leu Val Gly Ile Val Leu His Thr Leu Pro Phe
325          330          335
Asp Asn Val Ile Val Ser Gly Phe Thr Gln Arg Val Ser Lys Arg Thr
340          345          350
Gly Tyr Leu Glu Asp Glu Tyr Ile Leu Ser Cys Lys Cys Thr Arg Ser
355          360          365
Gln Met Ser Ser Val Asn Phe Ala Gly Ile Glu His Ile Asp Pro Val
370          375          380
Glu Ala Leu Gly Asp His Pro Val Ile Arg Lys Met Ser Ser Thr Phe
385          390          395          400
Ile Phe Gln Pro Ile Glu Pro Leu Thr Leu
405          410

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<210> 8314

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 8314

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Gly Asp Ile Met Ser Val Ser Leu Ser Lys Gly Gln Gly Val Ser Leu
1      5      10      15
Lys Lys Asn Glu Tyr Asp Leu Ser Ser Val Thr Ile Gly Leu Gly Trp
20      25      30
Asp Ile Asn Glu Glu Lys Lys Gly Phe Leu Gly Gly Ile Phe Gly Lys
35      40      45
Lys Glu Glu Glu Tyr Asp Leu Asp Val Ile Ala Phe Leu Cys Asn Ser
50      55      60
Ala Gly Lys Val Thr Asp Leu Gly Asn Val Glu Asn Gly Lys Pro Thr
65      70      75      80
Leu Val Asn Gly Asp Ile Ile Phe Phe Asn Ser Leu Arg His Lys Ser
85      90      95
Gly Asn Ile Trp Leu Thr Gly Asp Asn Arg Thr Gly Ala Gly Asp Gly
100     105     110
Asp Asp Glu Gln Ile Ile Val Arg Leu Asn Ser Leu Asp Ala Gln Tyr
115     120     125
Glu Lys Ile Val Phe Ile Val Gln Ile Tyr Asn Gly Glu Lys Leu Gln
130     135     140
Gln His Phe Gly Lys Val Gln Asn Ala Phe Ile Arg Ala Val Asp Ala
145     150     155     160
Arg Asn Ile Glu Met Ala Arg Phe Asp Leu Ser Gly Gly Pro Ala Phe
165     170     175
Ala Ser Gln Arg Ser Met Val Phe Ala Glu Leu Ile Arg Glu Ala Thr
180     185     190
Gly Trp Lys Leu Arg Ala Ile Gly Glu Pro Ser Glu Ser Asp Ser Phe
195     200     205
Val Ser His Leu Arg Asn Tyr Met
210     215

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<210> 8315

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 8315

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Gly Val Phe Met Ser Asp Ile Leu Glu Asp Met Ile Tyr Arg Arg Thr
1      5      10      15
Leu Ser Cys Gly Thr Ile Gln Val Thr Arg Asp Gln Gly Glu Val Ser
20      25      30
Leu Asp Asp Leu Phe Asp Ile Ala Glu Arg Arg Asn Pro Lys Arg Ala
35      40      45
Phe Leu Phe Val Ser Lys Val Leu Gly Arg His Ile Pro Val Pro Pro
50      55      60
Ser Val Met Arg Gln Ala Tyr Arg Gln Leu Ala Ser Gln Phe Pro Ser
65      70      75      80
Thr Leu Thr Gly Pro Val Leu Phe Ile Gly Met Ala Glu Thr Ala Val
85      90      95
Gly Leu Gly Ala Gly Val Phe Asp Glu Val Arg His Gln His Pro Glu
100     105     110
Ser Val Tyr Leu Thr Ser Thr Arg His Pro Val Asp Gly Thr Leu Leu
115     120     125
Cys Glu Phe Lys Glu Glu His Ser His Ala Thr Asp His Leu Ile Tyr
130     135     140
Leu Pro Asp Asp Glu Glu Lys Arg Arg Arg Val Thr Asn Ala Arg Thr
145     150     155     160

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Leu Val Leu Ile Asp Asp Glu Ala Thr Thr Gly Asn Thr Phe Ile Asn
 165 170 175
 Leu Leu Ser Ala Leu Arg Asn Thr Gly Lys Leu Gln His Ile Glu Gln
 180 185 190
 Val Ile Ala Val Thr Leu Thr Asp Trp Ser Gly Lys Ala Leu Ser Glu
 195 200 205
 Arg Ser Thr Leu Pro Val Thr Ser Val Ser Leu Val Ser Gly Lys Trp
 210 215 220
 Gly Trp Thr Pro Leu Pro Asp Ala Pro Val Pro Asp Met Pro Lys Val
 225 230 235 240
 Asn Val Thr Ser Arg Gly Glu Trp Asp Ile Gln Gly Lys Gln Ser Trp
 245 250 255
 Gly Arg Leu Gly Met Leu Ala Pro Ala Ala Asp Leu Gly His Glu Val
 260 265 270
 Ser Val His Lys Gly Glu Arg Ile Leu Val Leu Gly Thr Gly Glu Phe
 275 280 285
 Val Trp Glu Pro Phe Leu Leu Ala Glu Arg Leu Glu Ala Ala Gly Ala
 290 295 300
 Gln Ala Phe Tyr Gly Ser Thr Thr Arg Ser Pro Ile Ala Val Gly Tyr
 305 310 315 320
 Ala Ile Glu Ser Ala Ile Ser Phe Thr Asp Asn Tyr Gly Leu Gly Ile
 325 330 335
 Pro Asn Phe Val Tyr Asn Val Ala His Gln Phe Asp Arg Ile Leu
 340 345 350
 Val Cys Thr Glu Thr Pro Ala Glu Ser Ile Asp Thr Gln Leu Leu Lys
 355 360 365
 Ala Leu Ala Glu Val Ala Ala Val Val Glu Ile Val Thr Tyr Glu
 370 375 380

<210> 8316

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 8316

Arg Leu His Phe Met Leu Gln His Pro Ile Leu Ile Asn Arg Pro Ile
 1 5 10 15
 Val Val Thr Pro Leu Gly Thr Arg Leu Cys Arg Pro Ser Glu Val Val
 20 25 30
 Leu Asp Ile Leu Pro Asp Ala Gln Lys His Ala Phe Thr Lys Glu Asp
 35 40 45
 Gly Glu Lys Val Val Asp Asp Ala Gly Lys Arg Leu Lys
 50 55 60

<210> 8317

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 8317

Ser Ala Ser Trp Arg Gly Ala Ile Cys Leu Ser Arg Cys Arg Leu Pro
 1 5 10 15
 Arg Ser Ala Thr Ala Arg Gly Ala Gly Arg Gly Gly Cys Glu Ala
 20 25 30
 Asp Arg Arg Ala Ser Arg Gln Gly Lys Asn Leu Glu Ala Ala Ser Ala
 35 40 45
 Gln Gln Gln Asn Gly His Gln His Arg Ile His Glu Asn Gln His Pro
 50 55 60
 Cys Gln Gly Gly Ala Pro Val Ser His His Gln Ala Ala Val Arg Leu
 65 70 75 80
 Arg Glu Ser Gln Ile Gln Gly Ala Ala Glu Lys Arg

<210> 8318

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 8318

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Leu His Glu Glu Asn Gly Thr Ser Arg Glu Asn Ser Pro Gly Ala Asp
1      5      10
Trp Gly Cys Ser His Leu Arg Pro Ile Ser Ala Met Arg Ser Pro Ser
20      25      30
Thr Arg Gly Asn Val Phe Trp Phe Ser Gly Pro Gly Asn Ser Ser Gly
35      40      45
Ser Arg Ser Cys Leu Leu Asn Gly Ser Lys Leu Pro Glu His Arg His
50      55      60
Phe Met Asp Arg Pro Pro Ala Pro Leu Ser Pro Leu Val Met Pro Leu
65      70      75      80
Ser Pro Pro Phe 85 Leu Arg Ile Thr Thr Gly Trp Ala Ser Pro Ile
100      105      110
Leu Arg His Pro Gln Lys Val Leu Thr Arg Ser Phe Leu Lys Arg Trp
115      120      125
Leu Arg Leu Arg Pro Ser Trp Arg Leu Leu Pro Met Asn Lys Pro Val
130      135      140
Val Leu Ser Asp Leu Asp Asp Thr Leu Phe Gln Thr Arg Arg Lys Met
145      150      155      160
Val Asp Glu Leu Ala Leu Glu Pro Phe Arg Thr Gly Ala Val Asp Arg
165      170      175
Thr Leu Asn Pro Arg Ser Phe Met Thr Glu Glu Gln Ser Met Leu Val
180      185      190
Asp Trp Leu Leu Glu Gln Ala Glu Leu Ile Pro Val Thr Ala Arg Gly
195      200      205
Thr Glu Glu Ile Ser Arg Val Arg Ile Pro Phe His Ser Trp Ala Ile
210      215      220
Thr Thr His Gly Ala Val Ile Leu Thr Pro Glu Gly Lys Pro Asp Glu
225      230      235      240
Glu Trp Lys Ala His Met Leu Gly Gln Leu Ala Pro Tyr Gln Glu Lys
245      250      255
Leu Thr Ser Met Gln Arg Leu Ile Thr Glu Met Met Asp Ala Lys Gly
260      265      270
Ile Asn Ala Trp Ala Arg Leu Asn Phe Glu Tyr Gly Glu Thr Ala Val
275      280      285
Tyr Met Val Met Lys His Arg Asp Ser Thr Arg Leu Asp Glu Leu Asn
290      295      300
Ala Ile Ala Asp Glu Ile Glu Thr Val Phe Pro Thr Glu Gly Phe Tyr
305      310      315      320
Ile His Arg Asn Ser Asn Asn Val Ala Trp Leu Pro Thr Ala Val Glu
325      330      335
Lys Gly Leu Ala Val Arg Trp Leu Leu Glu Lys Leu Arg Ala Glu Arg
340      345      350
Gly Val Phe Pro Val Ile Gly Leu Gly Asp Ser Leu Ser Asp His Arg
355      360      365
Phe Met Lys Leu Cys Ser Trp Phe Gly Ile Pro Arg Gln Ser Gln Phe
370      375      380
Ala Asp Ala Ile Ser Gln Arg Ile Phe Gly Glu Asn
385      390      395

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<210> 8319

<211> 345

<212> PRT

<213> *Enterobacter cloacae*

<400> 8319

Lys Gly Asn Ser Cys Tyr Arg Asn Gly Gly Asn Pro Arg Pro Val Ser
 1 5 10 15
 Gly Cys Asn His Tyr Gln Glu Gly Thr Leu Met Lys Asn Arg Leu Ser
 20 25 30
 Pro Trp Asn Leu Gly Ala Thr Leu Tyr Met Pro Ala Thr Arg Glu Asp
 35 40 45
 Ile Ala Asp Ala Val Leu His Gly Lys Ile Pro Gly Leu Arg Ser Leu
 50 55 60
 Val Ile Cys Leu Glu Asp Ala Val Ser Glu Ala Asp Ile Pro Ile Ala
 65 70 75 80
 Leu Lys Asn Leu Glu His Leu Leu His Glu Leu Ser Asn Ser Met Arg
 85 90 95
 Ser Leu Gly Lys Asn Asp Trp Pro Leu Val Phe Ile Arg Pro Arg His
 100 105 110
 Ala Glu Met Gly Arg Trp Leu Lys Ala His Tyr Asp Leu Ser Ala Val
 115 120 125
 Asp Gly Phe Val Leu Pro Lys Phe Thr Leu Ser Ser Leu Ala Glu Trp
 130 135 140
 Trp Asp Ile Met Gly Gly Thr His Leu Cys Met Met Pro Thr Leu Glu
 145 150 155 160
 Thr Glu Asp Val Phe Asp Val Val Gln Met Arg Glu Leu Ala Thr Arg
 165 170 175
 Leu Val Glu His Pro Cys His Asp Arg Ile Ala Leu Arg Ile Gly
 180 185 190
 Gly Asn Asp Leu Met Asn Val Val Ser Leu Arg Arg Pro Arg Asp Leu
 195 200 205
 Thr Leu Tyr Asp Ser Pro Met Gly Tyr Val Ile Lys Met Leu Val Ser
 210 215 220
 Val Phe Gly Pro Arg Asp Phe Ala Leu Thr Ala Pro Val Cys Glu His
 225 230 235 240
 Ile Asp Asp His Ala Val Met Ala Arg Glu Leu Ala Leu Asp Met Ala
 245 250 255
 His Gly Leu Val Gly Lys Thr Ala Ile His Pro Gly Gln Ile Glu Val
 260 265 270
 Ile Gln Asn Ala Leu Met Val Thr Gln Gly Glu Tyr Ser Asp Ala Leu
 275 280 285
 Arg Ile Leu Asn Ser Thr Gln Ala Val Phe Lys Ser Gln Gly Ala Met
 290 295 300
 Cys Glu Pro Ala Thr His Arg Arg Trp Ala Ala Gly Ile Leu Asp Arg
 305 310 315 320
 Ala Arg Phe Tyr Gly Leu Gln Asn Glu Gln Ser Ala Asp Gly Ile Arg
 325 330 335
 Leu Leu Thr Val Thr Gln His His
 340 345

<210> 8320

<211> 167

<212> PRT

<213> *Enterobacter cloacae*

<400> 8320

Thr Thr Asn Pro Leu Ser Arg Leu Asn Leu Thr Met Gln Leu Asn Thr
 1 5 10 15
 Arg Gln Ala Arg Ile Phe Lys Leu Ala Asn Leu Leu Gly Thr Gly Lys
 20 25 30
 Pro Val Ser Ala Ala Asp Ile Ile Thr Ser Leu Glu Cys Ser Glu Pro
 35 40 45

Thr Leu Thr Arg Ala Leu Lys Glu Leu Arg Glu Ser Tyr Ser Ala Glu
 50 55 60
 Ile Lys Tyr Ser Lys Ala Gly His Ser Tyr His Leu Val Asn Pro Gly
 65 70 75 80
 Gln Leu Asp Lys Lys Thr Leu Arg Arg Met Asn Glu Ala Leu Ala Gln
 85 90 95
 Asn Ala Glu Leu Lys Thr Gly Glu Ser Thr Gly Lys Val Val Leu Asp
 100 105 110
 Lys Asp Lys Lys Thr Ala Val Ser Leu Ser Leu Arg Met Arg Ile Leu
 115 120 125
 Arg Lys Ile Asp Arg Leu Ala Ala Leu Ser Gly Ser Thr Arg Ser Glu
 130 135 140
 Ala Val Glu Lys Leu Ala Leu His Ser Val Asp Glu Leu Ile Lys Glu
 145 150 155 160
 Tyr Ser Ala Lys Lys Ser
 165

<210> 8321

<211> 249

<212> PRT

<213> *Enterobacter cloacae*

<400> 8321

Val Phe Asn Leu His Pro Thr Asp Val Val Pro Phe Tyr Gln Ile Asn
 1 5 10 15
 Lys Pro Trp Pro Leu Pro Glu Thr Thr Leu Leu Phe Arg Ser Leu Lys
 20 25 30
 Lys Glu Leu His Leu Arg Arg Leu Pro Val Tyr Leu Leu Leu Asp Thr
 35 40 45
 Ser Gly Ser Met His Gly Glu Pro Ile Glu Ala Val Lys Asn Gly Val
 50 55 60
 Gln Thr Leu Leu Thr Thr Leu Lys Gln Asp Pro Tyr Ala Leu Glu Thr
 65 70 75 80
 Ala His Val Ser Val Ile Thr Phe Asp Ser Ser Ala Arg Gln Ala Val
 85 90 95
 Pro Leu Thr Asp Leu Leu Ser Phe Gln Met Pro Ala Leu Thr Ala Ser
 100 105 110
 Gly Thr Thr Ser Leu Gly Glu Ala Leu Ser Leu Thr Ala Ser Ser Ile
 115 120 125
 Ala Lys Glu Val Gln Lys Thr Thr Ala Asp Thr Lys Gly Asp Trp Arg
 130 135 140
 Pro Leu Val Phe Leu Met Thr Asp Gly Ser Pro Asn Asp Asp Trp Arg
 145 150 155 160
 Lys Gly Leu Asn Asp Phe Lys Ala Ala Arg Thr Gly Val Val Val Ala
 165 170 175
 Cys Ala Ala Gly His Asp Ala Asp Thr Ser Val Leu Lys Glu Ile Thr
 180 185 190
 Glu Ile Val Val Gln Leu Asp Thr Ala Asp Ser Ser Thr Ile Lys Ala
 195 200 205
 Phe Phe Lys Trp Val Ser Ala Ser Ile Ser Val Gly Ser Gln Lys Val
 210 215 220
 Glu Ser Ser Lys Lys Glu Val Ile Gly Leu Glu Asp Leu Pro Pro Pro
 225 230 235 240
 Pro Pro Glu Val Asn Val Val Leu
 245

<210> 8322

<211> 229

<212> PRT

<213> *Enterobacter cloacae*

<400> 8322

Ala Phe Arg Ile Arg Phe Val Cys Leu Ala Pro Glu Glu Leu His Val
 1 5 10 15
 Met Arg Arg Leu Pro Val Tyr Leu Val Ile Asp Thr Ser Gly Ser Met
 20 25 30
 Arg Gly Glu Ser Ile His Ser Val Asn Val Gly Ile Gln Ala Met Leu
 35 40 45
 Ser Ala Leu Arg Gln Asp Pro Tyr Ala Leu Glu Ser Val His Ile Ser
 50 55 60
 Ile Ile Thr Tyr Asp Asn Glu Ala Arg Glu Phe Ile Pro Leu Thr Pro
 65 70 75 80
 Leu Glu Asp Phe Gln Phe Ser Asp Ile Val Val Pro Ser Ala Gly Gly
 85 90 95
 Thr Phe Thr Gly Ala Ala Leu Glu Cys Leu Met Gln Cys Val Glu Arg
 100 105 110
 Asp Val Arg Arg Ser Asp Gly Asp Thr Lys Gly Asp Trp Arg Pro Leu
 115 120 125
 Val Phe Leu Met Thr Asp Gly Thr Pro Ser Asp Ala Leu Ala Tyr Gly
 130 135 140
 Glu Ala Val Lys Ala Ile Arg Gly Arg Gly Phe Gly Ser Ile Ile Ala
 145 150 155 160
 Cys Ala Val Gly Pro Lys Ala Gly His Glu His Leu Lys Gln Leu Thr
 165 170 175
 Asp Lys Val Val Ser Leu Glu Thr Leu Asp Ser Thr Ala Phe Ala Gly
 180 185 190
 Phe Phe Lys Trp Val Ser Ala Ser Val Ser Ser Gly Ser Thr Ser Ala
 195 200 205
 Gly Ile Asn Asn Gly Thr Asp Thr Leu Pro Pro Pro Pro Glu Ile
 210 215 220
 Gln Leu Val Leu
 225

<210> 8323

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 8323

Gln Thr Glu Arg Cys Cys Phe Arg Ala Ala Pro Phe Cys Thr Ala Thr
 1 5 10 15
 Phe Ser Ala Gly Arg Thr Ser Arg Thr Arg Lys Ile Met Arg Arg Leu
 20 25 30
 Pro Val Phe Phe Val Leu Asp Cys Ser Glu Ser Met Ile Gly Glu Asn
 35 40 45
 Leu Lys Lys Met Thr Asp Gly Leu Gln Met Ile Val Gly Asp Leu Arg
 50 55 60
 Lys Asp Pro His Ala Leu Glu Thr Ala Trp Val Ser Val Ile Ala Phe
 65 70 75 80
 Ala Gly Val Ala Arg Thr Ile Val Pro Leu His Glu Ile Ala Ser Phe
 85 90 95
 Tyr Pro Pro Arg Leu Pro Val Gly Gly Thr Ser Leu Gly Ala Ala
 100 105 110
 Leu Arg Glu Leu Thr Val Gln Ile Asp Thr Gln Val Arg Lys Thr Thr
 115 120 125
 His Glu Ala Lys Gly Asp Trp Lys Pro Val Val Tyr Leu Leu Thr Asp
 130 135 140
 Gly Arg Pro Thr Asp Asp Thr Thr Ala Glu Val Lys Arg Trp Lys Asp
 145 150 155 160
 His Tyr Ala Ser Lys Val Asn Leu Ile Ala Val Gly Leu Gly Pro Ser
 165 170 175
 Ala Asp Leu Asn Ile Leu Arg Gln Leu Thr Glu Asn Val Met Leu Phe

180 185 190
 Thr Glu Ser Gln Glu Gly Asp Phe Thr Arg Phe Ile Lys Trp Ile Thr
 195 200 205
 Ala Ser Val Thr Ala His Ser Arg Ser Val Gly Asp Asp Lys Gln Pro
 210 215 220
 Glu Leu Ser Gln Thr Glu Tyr Ile Val Arg Leu Ala Lys Asp Glu Pro
 225 230 235 240
 Val Lys Ala Tyr Asp Glu Asn Cys Val Thr Leu Thr Gly Arg Cys Ser
 245 250 255
 Lys Thr Arg Arg Pro Tyr Leu Met Lys Tyr Glu Arg Pro Ala Arg
 260 265 270
 Val Ser Gly Leu Asp Phe Ser Leu Asn Leu Asn Ser Phe Asn Ile Ala
 275 280 285
 Gly Cys Tyr Pro Ile Asp Glu Asp Tyr Phe Ala Trp Ser Asp Ala Thr
 290 295 300
 Ala Thr Gly Leu Gln Val Asn Thr Ser Glu Leu His Gly Val Pro Gly
 305 310 315 320
 Cys Pro His Cys Gly Asn Ala Ser Ala Phe Ala Leu Cys Ser Cys Gly
 325 330 335
 Lys Leu Leu Cys Ile Asp Gly Pro Asp Asp Val Ile Cys Pro Trp Cys
 340 345 350
 Glu Thr Gly Leu Ser Phe Ser Asn Asp Gly Gly Asn Thr Asn Phe Asp
 355 360 365
 Val Asn Arg Gly Arg Gly 375
 370

<210> 8324

<211> 530

<212> PRT

<213> Enterobacter cloacae

<400> 8324

Ala Thr Gly Leu Thr Phe Ser Pro Gln Gly Thr Met Met Thr Ala Leu
 1 5 10 15
 Leu Arg Cys Cys Gly Lys Gly Tyr Ala Phe Ser Val Ile Asn Met Ala
 20 25 30
 Asn Ile Val Thr Cys Lys Thr Lys Asp Gly Glu Thr Val Gln Tyr Val
 35 40 45
 Asp Glu Val Ile Gly Ser Gly Ser Met Lys Asp Val Tyr Phe Ser Pro
 50 55 60
 Asp Lys Ser Tyr Val Val Ala Phe Tyr His Lys Pro Gln Asn Glu Gln
 65 70 75 80
 Ala Arg Asp Arg Ile Asp Met Ile Thr Gly Arg Tyr Arg Gln Asn Ile
 85 90 95
 Phe Gly Gln Ser Gly Gly Glu Tyr Trp Lys Asp Leu Phe Cys Trp Pro
 100 105 110
 Thr His Val Val Glu His Gly His Lys Ile Gly Ile Val Val Pro Thr
 115 120 125
 Tyr Lys Ser Tyr Phe Phe Phe Lys Tyr Gly Ser Lys Asn Asp Asp Phe
 130 135 140
 Leu Gly Ile Lys Gly Arg Glu Lys Glu Gly Lys Trp Phe Ala Ser Ala
 145 150 155 160
 Ser Asn Gln Asn Lys Phe Leu Asp Pro Arg Glu Arg Gly Asn Thr Leu
 165 170 175
 Thr Tyr Leu Lys Val Cys Leu Leu Leu Thr Arg Ala Val Arg Arg Met
 180 185 190
 His Ala Ala Gly Leu Cys His Ser Asp Leu Ser Tyr Lys Asn Val Leu
 195 200 205
 Ile Asp Pro Glu Met Gly His Ala Cys Ile Ile Asp Val Asp Gly Leu
 210 215 220
 Val Val Pro Gly Lys Tyr Pro Pro Asp Val Val Gly Thr Pro Asp Phe

225 230 235 240
 Ile Ala Pro Glu Val Val Lys Thr Ser His Leu Ser Lys Glu Asp Pro
 245 250 255
 Asn Arg Val Leu Pro Ser Ile Thr Thr Asp Arg His Ala Leu Ser Val
 260 265 270
 Leu Ile Tyr Met Tyr Leu Phe Phe Arg His Pro Leu Arg Gly Gly Lys
 275 280 285
 Ile His Asp Met Ser Asp Glu Val Arg Asp Glu Thr Leu Ser Met Gly
 290 295 300
 Glu Lys Ala Leu Phe Ile Glu His Pro Thr Asp Lys Ser Asn Ala Val
 305 310 315 320
 Lys Val Ser Gln Leu Ser Ser Phe Ser Leu Pro Trp Ala Asp Pro Glu
 325 330 335
 Lys Ile Pro Tyr Thr Ile Met Gly Pro Tyr Leu Thr Pro Leu Phe Glu
 340 345 350
 Arg Ala Phe Ile Asp Gly Leu His Asp Ala Thr Lys Arg Pro Thr Ala
 355 360 365
 Asp Glu Trp Glu Ser Ala Leu Val Lys Thr Val Asp Leu Ile Gln Pro
 370 375 380
 Cys Gln Asn Lys Ala Cys Glu Gln Lys Trp Tyr Val Phe Ser Gly Lys
 385 390 395 400
 Thr Lys Pro Val Cys Pro Tyr Cys Gly Thr Pro Tyr Lys Gly Lys Leu
 405 410 415
 Pro Val Leu Asn Leu Tyr Ser Ser Arg Lys Glu Gly Ser Tyr Arg Pro
 420 425 430
 Asp Asp His Arg Leu Met Val Trp Ser Gly Gln Ser Ile Tyr Ala Trp
 435 440 445
 His Val Asn Arg Leu Ile Ala Pro Asn Glu Arg Thr Thr Asp Ala Gln
 450 455 460
 Arg Lys Arg Val Gly Tyr Phe Val Phe His Asn Asp Gln Trp Trp Leu
 465 470 475 480
 Val Asn Glu Gly Ile Asn Arg Leu Met Ser Leu Pro Asp Lys Arg Gln
 485 490 495
 Ile Ala Ile Gly Glu Lys Ile Glu Leu Thr Asn Asn Ala Gln Phe Val
 500 505 510
 Leu Ser Lys Glu Glu Gly Gly Arg Leu Val Val Val Gln Leu Val Glu
 515 520 525
 Asn
 530

<210> 8325

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 8325

Tyr Glu Ile Ile Ile Phe Ile Arg Ser Ala Ser Gln Arg Asp Ile Met
 1 5 10 15
 Ser His Gln Leu Thr Phe Ala Asp Ser Glu Phe Ser Thr Lys Arg Arg
 20 25 30
 Gln Thr Arg Lys Glu Ile Phe Leu Ser Arg Met Glu Gln Ile Leu Pro
 35 40 45
 Trp Gln Asn Met Thr Ala Val Ile Glu Pro Phe Tyr Pro Lys Ala Gly
 50 55 60
 Asn Gly Arg Arg Pro Tyr Pro Leu Glu Thr Met Leu Arg Ile His Cys
 65 70 75 80
 Met Gln His Trp Tyr Asn Leu Ser Asp Gly Ala Met Glu Asp Ala Leu
 85 90 95
 Tyr Glu Ile Ala Ser Met Arg Leu Phe Ala Arg Leu Ser Leu Asp Ser
 100 105 110
 Ala Leu Pro Asp Arg Thr Thr Ile Met Asn Phe Arg His Leu Leu Glu

115 120 125
 Gln His Gln Leu Ala Arg Gln Leu Phe Lys Thr Ile Asn Arg Trp Leu
 130 135 140
 Ala Glu Ala Gly Val Ile Met Thr Gln Gly Thr Leu Val Asp Ala Thr
 145 150 155 160
 Ile Ile Glu Ala Pro Ser Ser Thr Lys Asn Lys Glu Gln Gln Arg Asp
 165 170 175
 Pro Glu Met His Gln Thr Lys Lys Gly Asn Gln Trp His Phe Gly Met
 180 185 190
 Lys Ala His Ile Gly Val Asp Ala Lys Ser Gly Leu Thr His Ser Leu
 195 200 205
 Val Thr Thr Ala Ala Asn Glu His Asp Leu Asn Gln Leu Gly Asn Leu
 210 215 220
 Leu His Gly Glu Glu Gln Phe Val Ser Ala Asp Ala Gly Tyr Gln Gly
 225 230 235 240
 Ala Pro Gln Arg Glu Glu Leu Ala Glu Val Asp Val Asp Trp Leu Ile
 245 250 255
 Ala Glu Arg Pro Gly Lys Val Lys Thr Leu Lys Gln His Pro Arg Lys
 260 265 270
 Asn Lys Thr Ala Ile Asn Ile Glu Tyr Met Lys Thr Ser Ile Arg Ala
 275 280 285
 Lys Val Glu His Pro Phe Arg Ile Ile Lys Arg Gln Phe Gly Phe Val
 290 295 300
 Lys Ala Arg Tyr Lys Gly Leu Leu Lys Asn Asp Asn Gln Leu Ala Met
 305 310 315 320
 Leu Phe Thr Leu Ala Asn Leu Phe Arg Val Asp Gln Met Ile Arg Gln
 325 330 335
 Trp Glu Arg Ser Gln
 340

<210> 8326

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 8326

Arg Leu Val Gly Ile Leu Pro Pro Ile Arg Cys Leu Cys Asn Ser Ser
 1 5 10 15
 Ala Arg Arg Pro Val Asp Asp Thr Ala Gly Leu Cys Lys Ser Leu Pro
 20 25 30
 Gly Tyr Ser Phe Leu Phe Phe Val Arg Tyr Thr Met Ser Lys Leu Phe
 35 40 45
 Thr Pro Tyr Asn Leu Ser Gly Leu Ala Leu Lys Asn Arg Val Val Met
 50 55 60
 Ala Pro Met Thr Arg Thr Arg Thr Met Asn Asp Val Pro Asp Glu Val
 65 70 75 80
 Val Ala Leu Tyr Tyr Ala Gln Arg Ala Ser Ala Gly Leu Leu Ile Thr
 85 90 95
 Glu Gly Met Pro Val Ser Glu Glu Gly Arg Gly Tyr Leu Tyr Thr Pro
 100 105 110
 Gly Ile Tyr Asn Asp Glu His Val Gln Gly Trp Arg Lys Val Thr Gln
 115 120 125
 Ala Val His Ala Lys Gly Gly Cys Ile Phe Ala Gln Leu Trp His Val
 130 135 140
 Gly Arg Met Ser His Val Ser Leu Gln Pro Gly His Ile Ala Pro Val
 145 150 155 160
 Ser Ala Gly Thr Val Gln Ala Val Asn Thr Thr Val Phe Ala Leu Thr
 165 170 175
 Glu Ser Gly Glu Pro Gly Pro Val Val Pro Ser Gln Pro Arg Ala Leu
 180 185 190
 Glu Thr His Glu Val Lys Arg Ile Thr Ala Asp Phe Val His Ser Ala


```

      195              200              205
Arg Leu Ala Met Glu Ala Gly Phe Asp Gly Val Glu Ile Met Ala Ala
210              215              220
Asn Gly Phe Ile Phe Asp Gln Phe Leu Ser Ser Glu Leu Asn Thr Arg
225              230              235              240
Thr Asp Glu Tyr Gly Gly Ser Val Glu Asn Arg Gln Arg Phe Leu Leu
      245              250              255
Glu Thr Ile Asp Ala Val Ala Glu Ala Val Gly Asn Ser His Val Ala
      260              265              270
Val Arg Leu Ser Pro Phe Gly Arg Ile Tyr Asp Leu Ala Pro Tyr Glu
      275              280              285
Gly Glu Glu Gln Thr Trp Ser Ala Ile Thr Asp Ala Leu Gly Gln Arg
      290              295              300
Glu Leu Ala Tyr Val His Leu Tyr Tyr Gln Pro Val Tyr Thr Lys Ala
      305              310              315              320
Pro Leu Pro Glu Gly Phe Arg Arg Arg Phe Arg Asn Thr Phe Lys Gly
      325              330              335
Thr Ile Ile Ala Ala Gly Gly Phe Thr Arg Asp Ile Ala Glu Gln Ala
      340              345              350
Leu Glu Asp Asp Glu Leu Asp Leu Val Ala Phe Gly Val Pro Tyr Ile
      355              360              365
Ala Asn Pro Asp Leu Val Glu Arg Met Gln Asn Gly Trp Pro Leu Ala
      370              375              380
Glu Ser Asp Arg Ala Thr Tyr Tyr Gly Val Ser Gly Ser Pro Glu Lys
      385              390              395              400
Gly Tyr Thr Asp Tyr Pro Val Trp Gln Ala Gln
      405              410

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<210> 8327

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 8327

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Trp Thr Leu Ser Met Ser Asn Thr Leu Gln Pro Arg Arg Ala Arg Ala
1              5              10              15
Ser Tyr Ser Met Asp Phe Lys Leu Ala Leu Val Glu Lys Ser Tyr Gln
      20              25              30
Pro Gly Ala Cys Val Ala Arg Leu Ala Arg Asp Asn Gly Ile Asn Asp
      35              40              45
Asn Leu Leu Phe Thr Trp Arg Gln Arg Tyr Arg His Leu Leu Pro Asp
      50              55              60
Glu Ile Gln Arg Ser Ile Arg Glu Gln Asp Ser Val Ile Pro Val Val
      65              70              75              80
Leu Pro Asp Met Ala Leu Ser His His Ala Glu Pro His Tyr Glu Pro
      85              90              95
Ala Ala Pro Ala Cys Arg Glu Ala Met Thr Cys Glu Val Thr Val Gly
      100              105              110
Gly Ala Ser Leu Arg Leu Ser Gly Asp Leu Ser Pro Ala Leu Leu Lys
      115              120              125
Thr Leu Ile Arg Glu Leu Thr Gly Arg Ser Arg
      130              135              140

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<210> 8328

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 8328

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Trp Ser Gln Lys Met Asn Thr Phe Phe Lys Gly Lys Lys Leu Leu Val
1              5              10              15

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Val Gly Gly Thr Ser Gly Met Gly Leu Ala Val Ala Arg Met Val Leu
 20 25 30
 Glu Ala Gly Gly Ser Val Val Leu Thr Gly Asn Lys Lys Asp Lys Ala
 35 40 45
 Glu Ala Val Gln Lys Glu Leu Ser Pro Leu Gly Pro Val Ala Val Ile
 50 55 60
 Ala Ala Asn Leu Met Thr Glu Gly Met Glu Thr Ile Arg Gln Glu
 65 70 75 80
 Ile Asn Ala His His Arg Asp Ile Ser Leu Met Val Asn Ala Ala Gly
 85 90 95
 Ile Phe Met Pro Lys Gly Phe Thr Glu His Ser Phe Ala Asp Tyr Asp
 100 105 110
 Met Tyr Leu Ser Leu Asn Arg Ala Thr Phe Phe Ile Thr Gln Asp Val
 115 120 125
 Val Lys Asn Met Leu Ala Ala Lys Leu Glu Gly Ser Ile Val Asn Val
 130 135 140
 Gly Ser Ile Gly Ala Gln Ala Ala Leu Gly Asp Ser Pro Ala Ser Ala
 145 150 155 160
 Tyr Ser Met Ala Lys Ala Gly Leu His Ala Leu Thr Arg Asn Leu Ala
 165 170 175
 Ile Glu Leu Ala Ser Ala Gly Ile Arg Val Asn Ala Val Ser Pro Gly
 180 185 190
 Ile Val His Thr Pro Ile Tyr Glu Gly Phe Met Asp Lys Ala Asp Ile
 195 200 205
 Ala Asp Ala Met Lys Ser Leu Ser Asp Phe His Pro Leu Gly Arg Val
 210 215 220
 Gly Thr Ala Glu Asp Val Ala Asn Thr Ile Leu Phe Leu Leu Ser Asp
 225 230 235 240
 Lys Thr Ser Trp Val Thr Gly Ala Ile Trp Asp Val Asp Ala Gly Ile
 245 250 255
 Met Ala Val Arg Arg
 260

<210> 8329

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 8329

Ala Val Gly Gln Ala Thr Leu Gly Ile Asp Thr Asn Val Gly Leu His
 1 5 10 15
 Ala Lys Val Pro Leu Ile Ala Phe Leu Gly Leu Met His Leu Arg Ile
 20 25 30
 Ala Leu Leu Leu Phe Val Leu Gly Arg Ala Gly Cys Leu Asn Asp Gly
 35 40 45
 Gly Ile His Gln Ser Ala Leu Gly His Asn Asp Ala Cys Phe Gly Gln
 50 55 60
 Pro Ala Ile Asp Gly Leu Glu Gln Leu Thr Gly Gln Leu Met Leu Leu
 65 70 75 80
 Glu Gln Val Ala Glu Ile His Asp Gly Gly Ala Ile Arg Gln Gly Ala
 85 90 95
 Ile Gln Gly
 100

<210> 8330

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 8330

Ser Gly Lys Gln Ala His Gly Gly Asp Phe Val Gln Gly Ile Phe His

1	5	10	15
Gly Thr Val Ala	Gln Val Val Pro Met	Leu His Ala Val	Asn Thr Gln
	20	25	30
His Gly Leu Gln	Arg Ile Gly Pro Ser	Ala Ile Ala Arg	Leu Gly Ile
	35	40	45
Lys Arg Leu Asp	Asp Ser Gly His Ile	Leu Pro Trp	Gln Asn Leu Leu
	50	55	60
His Ala Gly Glu	Glu Asn Leu Phe Ser	Gly Leu Thr	Ala Leu Ser Ala
65		70	75
Glu Phe Thr Ile	Gly Glu Gly Glu	Leu Met Ala	His Asp Val Pro
	85	90	95
Gly Cys Ala Pro	Asp Glu Tyr Asp Asp	Leu Ile Ser	Gly Thr Cys Ser
	100	105	110
His Leu Pro Leu	Tyr Arg His His	Ser Phe Leu His	Met Thr His
	115	120	125

<210> 8331

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 8331

Gly Ile Ile Met	Gln Thr Leu Lys	Pro Thr Leu Thr	Ile Asp Ile Trp
1	5	10	15
Ser Asp Leu Val	Cys Pro Trp Cys	Trp Ile Ala Lys	Lys Arg Phe Glu
	20	25	30
Gln Gly Leu Asn	Arg Phe Glu Phe	Arg Asp Gln Val	Val Ile Arg His
	35	40	45
His Ser Tyr Arg	Leu Ala Gly Gly	Thr Pro Ala Met	Pro Phe Lys Asp
	50	55	60
Ala Ile Val Lys	Lys Leu Gly Ser	Gln His Ser	Ala Glu Leu Met
65		70	75
Asn Gln Val Gly	Thr Ala Gly Lys	Ser Glu Cys	Leu Ile Tyr Asn
	85	90	95
Asp Gly Met Met	Phe Gly Asp Thr	Glu Asp Ala His	Thr Leu Leu Val
	100	105	110
Ala Ala Arg Lys	Ala Gly Ile Ala	Asp Ala Val Glu	Glu Arg Phe Tyr
	115	120	125
His Gly Ser Ile	Thr Glu Gly Arg	Ser Leu Phe Asp	Arg Gln Gln Leu
	130	135	140
Val Ala Met Ala	Val Glu Ala Gly	Met Pro Lys	Ala Asp Ala Glu
145		150	155
Ala Leu Glu Asn	Asp Asp Phe Arg	Ala Thr Val Ser	Asp Asp Glu Ala
	165	170	175
His Ala Gln Ser	Ile Gly Leu Ser	Gly Val Pro Val	Phe Val Met Asn
	180	185	190
Glu Lys Tyr Ala	Ile Ser Gly Ala	Gln Ala Ala Asp	Asn Phe Leu Asn
	195	200	205
Ala Leu Arg Gln	Val Trp Asp Glu	Gln Gln Thr Glu	Phe Ser Ala Thr
	210	215	220
Ala Gly Gln Thr	Cys Gly Thr Asp	Gly Cys Ser	Ile
225		230	235

<210> 8332

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 8332

Thr Arg Arg Ser	Ser Leu Pro Arg	Gly His Asp	Met Arg Gly	Asp Cys
1	5	10	15	

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Arg Arg Cys Gln Pro Ala Ser Val Arg Gly Phe Ile Thr Cys Thr Ser
      20      25      30
Glu Asn Ala Asp Pro Arg Ala Asp Arg Glu Glu Pro Met Ile Pro Leu
      35      40      45
Pro Ser Gly Thr Arg Ile Trp Leu Val Ala Gly Val Thr Asp Met Arg
      50      55      60
Lys Ser Phe Asn Gly Leu Gly Glu Leu Val Gln His Val Leu Asp Asp
      65      70      75      80
Asn Pro Phe Ser Gly His Leu Phe Ile Phe Arg Gly Arg Lys Gly Asp
      85      90      95
Thr Val Arg Ile Leu Trp Ala Asp Ala Asp Gly Leu Cys Leu Phe Thr
      100      105      110
Lys Arg Leu Glu Glu Gly Gln Phe Val Trp Pro Ala Val Arg Asp Gly
      115      120      125
Lys Ile Ala Ile Thr Arg Ser Gln Leu Ala Met Leu Leu Asp Lys Leu
      130      135      140
Asp Trp Arg Gln Pro Lys Thr Ala Arg Leu Asn Ser Leu Thr Met Leu
      145      150      155      160

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<210> 8333

<211> 541

<212> PRT

<213> Enterobacter cloacae

<400> 8333

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Lys Ala His Asp Arg Ile Ile Asn Gly Val Met Ser Gln Asp Tyr Leu
1      5      10      15
Ala Arg Ile Ala Ala Leu Glu Asp Ala Leu Arg Gln Lys Asp Ser Gln
      20      25      30
Leu Ser Leu Val Ala Glu Thr Glu Ser Phe Leu Arg Ser Ala Leu Ala
      35      40      45
Arg Ala Glu Glu Lys Ile Glu Asn Glu Glu Arg Glu Ile Glu Tyr Leu
      50      55      60
Arg Ala Gln Ile Glu Lys Leu Arg Arg Met Leu Phe Gly Thr Arg Ser
      65      70      75      80
Glu Lys Leu Arg Arg Gln Val Glu Glu Ala Glu Ala Leu Leu Lys Gln
      85      90      95
Gln Glu Gln Gln Ser Asp Arg Tyr Asn Gly Arg Asp Asn Asp Gln Gln
      100      105      110
Val Pro Arg Gln Leu Arg Gln Ser Arg His Arg Arg Pro Leu Pro Glu
      115      120      125
His Leu Pro Arg Glu Ile Asn Arg Leu Glu Pro Ala Glu Thr Ser Cys
      130      135      140
Pro Gly Cys Gly Ser Asp Met Ala Tyr Leu Ser Glu Val Ser Ala Glu
      145      150      155      160
Gln Leu Glu Leu Val Ser Ser Ala Leu Lys Val Ile Arg Thr Val Arg
      165      170      175
Val Lys Lys Ala Cys Thr Arg Cys Asp Cys Val Val Glu Ala Pro Ala
      180      185      190
Pro Ser Arg Pro Ile Asp Arg Gly Ile Ala Gly Pro Gly Leu Leu Ala
      195      200      205
Arg Val Leu Thr Ala Lys Tyr Cys Glu His Leu Pro Leu Tyr Arg Gln
      210      215      220
Cys Glu Ile Phe Ala Arg Gln Gly Val Asp Leu Ser Arg Ala Leu Leu
      225      230      235      240
Ser Asn Trp Val Asp Ala Cys Cys Arg Leu Met Ala Pro Leu Asp Glu
      245      250      255
Ala Leu Tyr His Tyr Val Met Asp Cys Arg Lys Leu His Thr Asp Asp
      260      265      270

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Thr Pro Val Pro Val Leu Ala Pro Gly Arg Lys Lys Thr Lys Thr Gly
 275 280
 Arg Ile Trp Thr Tyr Val Arg Asp Asn Arg Ser Ala Gly Ser Ser Asp
 290 295 300
 Pro Pro Ala Ala Trp Phe Ala Phe Ser Pro Asp Arg Gln Gly Lys His
 305 310 315 320
 Pro Gln Gln His Leu Arg His Tyr His Gly Val Leu Gln Ala Asp Ala
 325 330 335
 Phe Ala Gly Tyr Asp Arg Leu Phe Ser Ala Glu Arg Glu Gly Gly Pro
 340 345 350
 Leu Thr Glu Ala Ala Cys Trp Ala His Ala Arg Arg Lys Ile His Asp
 355 360 365
 Val Tyr Ile Ser Thr Arg Thr Ala Thr Ala Glu Glu Ala Leu Lys Arg
 370 375 380
 Ile Ser Glu Leu Tyr Ala Ile Glu Glu Glu Ile Arg Gly Leu Pro Ala
 385 390 395 400
 Ser Gln Arg Leu Ala Ala Arg Arg Ser Arg Ser Lys Pro Leu Leu Ile
 405 410 415
 Ser Leu His Asp Trp Leu Val Glu Lys Arg Ala Thr Leu Ser Lys Lys
 420 425 430
 Ser Arg Leu Gly Glu Ala Phe Ala Tyr Ala Leu Asn Gln Trp Asp Ala
 435 440 445
 Leu Cys Tyr Tyr Cys Asp Asp Gly Leu Ala Glu Pro Asp Asn Asn Ala
 450 455 460
 Ala Glu Arg Ala Leu Arg Ala Val Cys Leu Gly Lys Lys Asn Tyr Ile
 465 470 475 480
 Phe Phe Gly Ser Asp His Gly Gly Glu Arg Gly Ala Leu Leu Tyr Gly
 485 490 495
 Leu Ile Gly Thr Cys Arg Leu Asn Gly Ile Asp Pro Glu Gly Tyr Leu
 500 505 510
 Arg His Ile Leu Ser Val Leu Pro Glu Trp Pro Ile Asn Lys Val Ala
 515 520 525
 Glu Leu Leu Pro Trp Asn Val Asp Leu Thr Asn Lys
 530 535 540

<210> 8334

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 8334

Thr Met Gln Gln Leu Gln Asn Val Ile Glu Ser Ala Phe Glu Arg Arg
 1 5 10 15
 Ala Asp Ile Thr Pro Ala Asn Val Asp Thr Val Thr Arg Glu Ala Val
 20 25 30
 Asn Gln Val Ile Ser Leu Leu Asp Ser Gly Ala Leu Arg Val Ala Glu
 35 40 45
 Lys Ile Asp Gly Gln Trp Val Thr His Gln Trp Leu Lys Lys Ala Val
 50 55 60
 Leu Leu Ser Phe Arg Ile Asn Asp Asn Gln Val Ile Asp Gly Ala Glu
 65 70 75 80
 Ser Arg Tyr Phe Asp Lys Val Pro Met Lys Phe Ala Asp Tyr Asp Glu
 85 90 95
 Ala Arg Phe Gln Lys Glu Gly Phe Arg Val Val Pro Pro Ala Ala Val
 100 105 110
 Arg Gln Gly Ala Phe Ile Ala Arg Asn Thr Val Leu Met Pro Ser Tyr
 115 120 125
 Val Asn Ile Gly Ala Tyr Val Asp Glu Gly Thr Met Val Asp Thr Trp
 130 135 140
 Ala Thr Val Gly Ser Cys Ala Gln Ile Gly Lys Asn Val His Leu Ser
 145 150 155 160

Gly Gly Val Gly Ile Gly Gly Val Leu Glu Pro Leu Gln Ala Asn Pro
 165 170 175
 Thr Ile Ile Glu Asp Asn Cys Phe Ile Gly Ala Arg Ser Glu Val Val
 180 185 190
 Glu Gly Val Ile Val Glu Glu Gly Ser Val Ile Ser Met Gly Val Tyr
 195 200 205
 Ile Gly Gln Ser Thr Arg Ile Tyr Asp Arg Glu Thr Gly Glu Ile His
 210 215 220
 Tyr Gly Arg Val Pro Ala Gly Ser Val Val Val Ser Gly Asn Leu Pro
 225 230 235 240
 Ser Lys Asp Gly Lys Tyr Ser Leu Tyr Cys Ala Val Ile Val Lys Lys
 245 250 255
 Val Asp Ala Lys Thr Arg Gly Lys Val Gly Ile Asn Glu Leu Leu Arg
 260 265 270
 Thr Ile Asp
 275

<210> 8335
 <211> 141
 <212> PRT
 <213> Enterobacter cloacae

<400> 8335
 Leu Phe Ile Gly Tyr Val Glu Ile Lys Gly Thr Ala Met Tyr Asp Asn
 1 5 10 15
 Leu Lys Ser Leu Gly Ile Thr Asn Pro Asp Glu Ile Asp Arg Tyr Ser
 20 25 30
 Leu Arg Gln Glu Ala Asn Asn Asp Ile Leu Lys Ile Tyr Phe His Lys
 35 40 45
 Asp Lys Gly Glu Phe Phe Ala Lys Ser Val Lys Phe Lys Tyr Pro Arg
 50 55 60
 Gln Arg Lys Thr Val Val Ala Asp Gly Ile Gly Gln Gly Tyr Lys Glu
 65 70 75 80
 Val Gln Glu Ile Ser Pro Asn Leu Arg Tyr Val Ile Asp Glu Leu Asp
 85 90 95
 Gln Ile Cys Gln Arg Asp Arg Ser Glu Val Asp Leu Lys Arg Lys Ile
 100 105 110
 Leu Asp Asp Leu Arg His Leu Glu Ser Val Val Thr Asn Lys Ile Ser
 115 120 125
 Glu Ile Glu Ala Asp Leu Glu Lys Leu Thr Arg Lys
 130 135 140

<210> 8336
 <211> 914
 <212> PRT
 <213> Enterobacter cloacae

<400> 8336
 Val Ile Arg Ser Arg Arg Met Pro Ala Phe Leu Met Ala Ile Ala Phe
 1 5 10 15
 Ser Tyr Gly Trp Arg Thr Met Ser Asn Leu Leu Pro Glu Gln Tyr Ala
 20 25 30
 Asn Thr Ala Leu Pro Thr Leu Pro Asp Gln Pro Asp Asn Pro Gly Val
 35 40 45
 Trp Pro Pro His Glu Leu Thr Cys Ala His Ile Lys Ala His Met Glu
 50 55 60
 Val Phe His Arg Trp Leu Gly Ser Ala Phe Asp Ala Gly Val Ser Ala
 65 70 75 80
 Glu Gln Leu Ile Glu Ala Arg Thr Glu Phe Ile Asp Gln Leu Leu Gln
 85 90 95
 Arg Leu Trp Ile Asp Tyr Gly Phe Gly Gln Val Ser Asp Val Ala Leu

[illegible]

Asp Pro Glu Val Ile Lys Gln Phe Ala Glu Glu Val Gln Thr Glu Asn
 595 600 605
 Arg Leu Arg Tyr Leu Val Cys Leu Thr Val Ala Asp Ile Cys Ala Thr
 610 615 620
 Asn Glu Thr Leu Trp Asn Ser Trp Lys Gln Ser Leu Leu Arg Glu Leu
 625 630 635 640
 Tyr Phe Ala Thr Glu Lys Gln Leu Arg Arg Gly Met Gln Asn Thr Pro
 645 650 655
 Asp Met Arg Glu Arg Val Arg His His Gln Leu Gln Ala Leu Ala Leu
 660 665 670
 Leu Arg Met Asp Asn Ile Asn Glu Glu Ala Leu His Gln Ile Trp Ala
 675 680 685
 Arg Cys Arg Ala Asn Tyr Phe Val Arg His Ser Pro Asn Gln Leu Ala
 690 695 700
 Trp His Val Arg His Leu Leu Lys His Asp Leu Thr Lys Pro Met Ile
 705 710 715 720
 Leu Leu Ser Pro Gln Ala Thr Arg Gly Gly Thr Glu Ile Phe Ile Trp
 725 730 735
 Ser Pro Asp Arg Pro Tyr Leu Phe Ala Ala Val Cys Ala Glu Leu Asp
 740 745 750
 Arg Arg Asn Leu Ser Val His Asp Ala Gln Ile Phe Thr Thr Arg Asp
 755 760 765
 Gly Met Ala Met Asp Thr Phe Ile Val Leu Glu Pro Asp Gly Ser Pro
 770 775 780
 Leu Ser Ser Asp Arg His Glu Gly Ile Arg Phe Gly Leu Glu Gln Ala
 785 790 795 800
 Ile Thr Gln Arg Ser Trp Gln Pro Pro Gln Pro Arg Arg Gln Ala Ala
 805 810 815
 Lys Leu Arg His Phe Thr Val Asp Thr Glu Val Asn Phe Leu Pro Thr
 820 825 830
 His Thr Asp Arg Lys Ser Phe Leu Glu Leu Ile Ala Leu Asp Gln Pro
 835 840 845
 Gly Leu Leu Ala Arg Val Gly Gln Val Phe Ala Asp Leu Gly Ile Ser
 850 855 860
 Leu His Gly Ala Arg Ile Thr Thr Ile Gly Glu Arg Val Glu Asp Leu
 865 870 875 880
 Phe Ile Ile Ala Thr Ala Asp Arg Arg Ala Leu Asn Asn Asp Leu Gln
 885 890 895
 Leu Glu Val Gln Gln Arg Leu Thr Ala Ala Leu Asn Pro Asn Asp Lys
 900 905 910
 Gly

<210> 8337

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 8337

Pro His Asp Arg Leu Cys Ile Leu Thr Arg His Ile Ala Ser Lys Ser
 1 5 10 15
 Met Lys Ile Gly Ile Ile Gly Ala Met Glu Glu Glu Val Thr Leu Leu
 20 25 30
 Arg Asp Lys Ile Glu Asn Arg Gln Thr Leu Ser Leu Gly Gly Cys Glu
 35 40 45
 Ile Tyr Thr Gly Gln Leu Asn Gly Val Asp Val Ala Leu Leu Lys Ser
 50 55 60
 Gly Ile Gly Lys Val Ala Ala Ala Leu Gly Ala Thr Leu Leu Leu Glu
 65 70 75 80
 Arg Cys Lys Pro Asp Val Ile Ile Asn Thr Gly Ser Ala Gly Gly Leu
 85 90 95

Ala Pro Thr Leu Lys Val Gly Asp Ile Val Val Ser Asp Glu Ala Arg
 100 105 110
 Tyr His Asp Ala Asp Val Thr Ala Phe Gly Tyr Glu Tyr Gly Gln Leu
 115 120 125
 Pro Gly Cys Pro Ala Gly Phe Lys Ala Asp Asp Lys Leu Ile Ala Ala
 130 135 140
 Ala Glu Ser Cys Ile Asn Glu Leu Asn Leu Asn Ala Val Arg Gly Leu
 145 150 155 160
 Ile Val Ser Gly Asp Ala Phe Ile Asn Gly Ser Val Gly Leu Ala Lys
 165 170 175
 Ile Arg His Asn Phe Pro Gln Ala Val Ala Val Glu Met Glu Ala Thr
 180 185 190
 Ala Ile Ala His Val Cys His Asn Phe Ser Val Pro Phe Val Val Val
 195 200 205
 Arg Ala Ile Ser Asp Val Ala Asp Gln Gln Ser His Ile Ser Phe Asp
 210 215 220
 Glu Phe Leu Ala Val Ala Ala Lys Gln Ser Thr Val Met Val Glu Thr
 225 230 235 240
 Leu Val Gln Lys Leu Ala Arg Gly
 245

<210> 8338

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 8338

Thr Arg Gln Pro Ala Tyr Tyr Pro Arg Arg Lys Thr Thr Leu Arg Arg
 1 5 10 15
 Thr Gly Arg Glu Ser Leu Lys Gln Ile Asn Thr Pro Phe Glu Asp Leu
 20 25 30
 Thr Met Leu Val Tyr Trp Leu Asp Ile Leu Gly Thr Ala Val Phe Ala
 35 40 45
 Ile Ser Gly Val Leu Leu Ala Gly Lys Leu Arg Met Asp Pro Phe Gly
 50 55 60
 Val Leu Val Leu Gly Val Val Thr Ala Val Gly Gly Thr Thr Ile Arg
 65 70 75 80
 Asp Met Ala Leu Ala Asn Gly Pro Val Phe Trp Val Lys Asp Pro Thr
 85 90 95
 Asp Leu Val Val Ala Met Val Thr Cys Leu Thr Thr Ile Val Leu Val
 100 105 110
 Arg Gln Pro Arg Arg Leu Pro Lys Trp Ile Leu Pro Val Leu Asp Ala
 115 120 125
 Val Gly Leu Ala Val Phe Val Gly Ile Gly Val Asn Lys Ala Phe Ile
 130 135 140
 Ala Gly Thr Gly Pro Leu Val Ala Ile Cys Met Gly Val Leu Thr Gly
 145 150 155 160
 Val Gly Gly Gly Ile Ile Arg Asp Ile Leu Ala Arg Glu Val Pro Met
 165 170 175
 Ile Leu Arg Thr Glu Ile Tyr Ala Thr Ala Cys Ile Ile Gly Gly Ile
 180 185 190
 Val His Ala Thr Ala Tyr Tyr Thr Phe Ala Val Pro Leu Glu Asn Ala
 195 200 205
 Ala Met Leu Gly Met Val Val Thr Leu Val Ile Arg Leu Ala Ala Ile
 210 215 220
 Arg Trp His Leu Lys Leu Pro Thr Phe Ala Leu Asp Glu Asn Ser Arg
 225 230 235 240

<210> 8339

<211> 277

<212> PRT

<213> *Enterobacter cloacae*

<400> 8339

```

Tyr Cys Arg Lys Asn Arg His Arg Trp Thr Asp Tyr Met Ala Ile Ser
1      5      10      15
Ile Lys Thr Pro Glu Glu Ile Glu Lys Met Arg Val Ala Gly Arg Leu
20      25      30
Ala Ala Asp Val Leu Glu Met Ile Glu Pro Phe Val Lys Pro Gly Val
35      40      45
Ser Thr Gly Glu Leu Asp Arg Ile Cys Asn Asp Tyr Ile Val Asn Glu
50      55      60
Gln His Ala Ile Ser Ala Cys Leu Gly Tyr His Gly Phe Pro Lys Ser
65      70      75      80
Val Cys Ile Ser Ile Asn Glu Val Val Cys His Gly Ile Pro Asp Asp
85      90      95
Glu Lys Leu Leu Lys Asp Gly Asp Ile Val Asn Ile Asp Val Thr Val
100      105      110
Ile Lys Asp Asp Tyr His Gly Asp Thr Ser Lys Met Phe Ile Val Gly
115      120      125
Lys Pro Thr Ile Leu Gly Glu Arg Leu Cys Lys Val Thr Gln Glu Ser
130      135      140
Leu Tyr Leu Ala Leu Lys Met Val Lys Pro Gly Ile Arg Leu Arg Thr
145      150      155      160
Ile Gly Ala Ala Ile Gln Lys Phe Val Glu Ala Glu Gly Phe Ser Val
165      170      175
Val Arg Glu Tyr Cys Gly His Gly Ile Gly Arg Val Phe His Glu Glu
180      185      190
Pro Gln Val Leu His Tyr Asp Ala Asp Asp Gly Gly Val Val Leu Gln
195      200      205
Lys Gly Met Thr Phe Thr Ile Glu Pro Met Val Asn Ala Gly Asp Tyr
210      215      220
Arg Ile Arg Thr Met Lys Asp Gly Trp Thr Val Lys Thr Lys Asp Arg
225      230      235      240
Ser Leu Ser Ala Gln Tyr Glu His Thr Ile Val Val Thr Asp Asn Gly
245      250      255
Cys Glu Ile Met Thr Leu Arg Lys Asp Asp Thr Ile Pro Ala Ile Leu
260      265      270
Thr Asn Ile Glu
275

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<210> 8340

<211> 280

<212> PRT

<213> *Enterobacter cloacae*

<400> 8340

```

Trp Trp Lys Pro Trp Cys Arg Asn Trp Arg Val Gly Lys Val Ser Phe
1      5      10      15
Arg Ala Leu Val Ala Leu Leu Leu Phe Ala Pro Ala Trp Leu Ile Ala
20      25      30
Ala Pro Arg Val Ile Thr Leu Ser Pro Ala Asn Thr Glu Leu Ala Phe
35      40      45
Ala Ala Gly Ile Thr Pro Val Ala Val Ser Ser Phe Ser Asp Tyr Pro
50      55      60
Pro Gln Ala Ala Gln Ile Glu Gln Val Ala Thr Trp Gln Gly Met Asn
65      70      75      80
Leu Glu Arg Ile Val Ala Leu Lys Pro Asp Leu Val Leu Ala Trp Arg
85      90      95
Gly Gly Asn Ala Glu Arg Gln Val Asn Gln Leu Ser Ser Leu Gly Ile

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      100      105      110
Thr Val Lys Trp Val Asp Ala Val Ser Ile Glu Gln Val Ser Gln Thr
      115      120      125
Leu Arg Asp Leu Ala Pro Phe Ser Pro Thr Pro Gln Arg Ala Gly Gln
      130      135      140
Ala Ala Gln Gln Met Leu Asn Asp Tyr Ala Ala Leu Lys Ala Arg Tyr
145      150      155      160
Gly Thr Gln Pro Lys Gln Arg Val Phe Leu Gln Phe Gly Ser Gln Pro
      165      170      175
Leu Phe Thr Thr Gly Lys Gly Ser Ile Gln Asn Gln Val Leu Glu Thr
      180      185      190
Cys Gly Gly Glu Asn Ile Phe Ala Glu Ser Arg Val Pro Trp Pro Gln
      195      200      205
Val Ser Arg Glu Gln Val Leu Ala Arg Gln Pro Gln Ala Ile Val Val
      210      215      220
Val Gly Asn Ala Ser Glu Ile Pro Lys Ile Glu Gln Phe Trp His Arg
225      230      235      240
Gln Leu Lys Ile Pro Val Ile Ala Leu Asn Ser Asp Trp Phe Glu Arg
      245      250      255
Ala Ser Pro Arg Ile Ile Leu Ala Ala Lys Gln Leu Cys Ala Glu Leu
      260      265      270
Ala Glu Ser His Ser Asn Arg
      275      280

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<210> 8341
<211> 120
<212> PRT
<213> Enterobacter cloacae

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<400> 8341
Phe Ser Ser Gly Ala Pro Gly Gly Ile Phe Ala Pro Met Leu Ala Leu
1      5      10      15
Gly Thr Leu Leu Gly Thr Ala Phe Gly Met Ala Ala Val Gly Phe
      20      25      30
Pro Ala Tyr His Leu Asp Ala Gly Thr Phe Ala Val Ala Gly Met Gly
      35      40      45
Ala Leu Leu Ala Ala Ser Leu Arg Ala Pro Leu Thr Gly Ile Val Leu
      50      55      60
Val Leu Glu Met Thr Asp Asn Tyr Gln Leu Ile Leu Pro Met Ile Ile
65      70      75      80
Thr Cys Leu Gly Ala Thr Leu Leu Ala Gln Phe Leu Gly Gly Lys Pro
      85      90      95
Leu Tyr Ser Thr Ile Leu Ala Arg Thr Leu Ala Lys Gln Glu Ala Glu
      100      105      110
Gln Ala Leu Lys Gln Asn Thr
      115      120

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<210> 8342
<211> 515
<212> PRT
<213> Enterobacter cloacae

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<400> 8342
Gly Glu Thr His Ser His Ala Gly Glu His Met Ala Pro Ile Asp Phe
1      5      10      15
Arg Thr Lys Ile Asn Trp His Arg Arg Phe Arg Ser Pro Gln Gly Asp
      20      25      30
Lys Ser Glu His Glu Ile Leu Arg Ile Phe Glu Ser Asp Arg Gly Arg
      35      40      45
Ile Ile Asn Ser Pro Ala Ile Arg Arg Leu Gln Gln Lys Thr Gln Val
      50      55      60

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Phe Pro Leu Glu Arg Asn Ala Ala Val Arg Thr Arg Leu Thr His Ser
 65 70 75 80
 Met Glu Val Gln Gln Val Gly Arg Tyr Ile Ala Lys Glu Ile Leu Ser
 85 90 95
 Arg Leu Lys Glu Gln Arg Leu Leu Glu Thr Tyr Gly Leu Asp Glu Leu
 100 105 110
 Thr Gly Pro Phe Glu Ser Ile Val Glu Met Ala Cys Leu Met His Asp
 115 120 125
 Ile Gly Asn Pro Pro Phe Gly His Phe Gly Glu Ala Ala Ile Asn Asp
 130 135 140
 Trp Phe Lys Gln Arg Leu Phe Pro Ser Asp Ala Ile Ser Gln Pro Leu
 145 150 155 160
 Ser Asp Asp Arg Cys Val Val Arg Asp Leu Ser Leu Arg Glu Gly Glu
 165 170 175
 Asp Ser Leu Asn Asp Leu Arg Arg Lys Val Arg Gln Asp Leu Cys His
 180 185 190
 Phe Glu Gly Asn Ala Gln Gly Ile Arg Leu Val His Ser Leu Met Arg
 195 200 205
 Met Asn Leu Thr Trp Ala Gln Val Gly Cys Ile Leu Lys Tyr Thr Arg
 210 215 220
 Pro Ala Trp Trp Thr Gly Glu Thr Pro Ala Thr His Ser Tyr Leu Met
 225 230 235 240
 Lys Lys Pro Gly Tyr Tyr Leu Ser Glu Glu Ala Tyr Ile Ala Arg Leu
 245 250 255
 Arg Lys Glu Leu Ser Leu Thr Pro Asn Gly Arg Phe Pro Leu Thr Trp
 260 265 270
 Ile Met Glu Ala Ala Asp Asp Ile Ser Tyr Cys Val Ala Asp Leu Glu
 275 280 285
 Asp Ala Val Glu Lys Arg Ile Phe Ser Val Glu Glu Leu Tyr Gln His
 290 295 300
 Leu His Asp Ala Trp Gly Glu His Glu Lys Gly Ser Leu Phe Ala Gln
 305 310 315 320
 Val Val Glu Asn Ala Trp Asp Lys Ser Arg Ser Asn Ser Leu Ser Arg
 325 330 335
 Ser Thr Glu Asp Gln Phe Phe Met Tyr Leu Arg Val Asn Thr Leu Asn
 340 345 350
 Lys Leu Val Pro Tyr Ala Ala Ala Arg Phe Ile Asp Asn Leu Pro Met
 355 360 365
 Ile Phe Ser Gly Glu Phe Asn His Ala Leu Leu Glu Asp Glu Ser Ser
 370 375 380
 Phe Ser Gln Leu Leu Glu Leu Tyr Lys Asn Val Ala Val Arg His Val
 385 390 395 400
 Phe Ser His Pro Asp Val Glu Gln Leu Glu Leu Gln Gly Tyr Arg Val
 405 410 415
 Ile Ser Gly Leu Leu Glu Ile Tyr Gly Pro Leu Leu Gln Leu Thr Val
 420 425 430
 Asp Glu Phe Cys Glu Leu Val Glu Asn Glu Arg Val Arg Arg Leu Pro
 435 440 445
 Ile Glu Ser Arg Leu Tyr Gln Lys Leu Ser Thr Arg His Arg Leu Ala
 450 455 460
 Tyr Ile Glu Ala Val Ser Lys Ile Asp Arg His Ser Ser Gln Trp Pro
 465 470 475 480
 Val Met Glu Tyr Tyr Tyr Arg Cys Arg Leu Ile Gln Asp Tyr Ile Ser
 485 490 495
 Gly Met Thr Asp Leu Tyr Ala Trp Asp Glu Tyr Arg Lys Leu Met Ala
 500 505 510
 Val Glu

515

<210> 8343

<211> 497

<212> PRT

<213> *Enterobacter cloacae*

<400> 8343

```

Asn Glu Ser Glu Leu His Ser Asn Phe Ala Leu Ser Gly Lys Ser Arg
1      5      10      15
Leu Arg Asn Met Lys Lys Thr Thr Leu Ala Met Ser Ala Leu Ala Leu
20      25      30
Ser Leu Gly Leu Ala Leu Ser Pro Leu Ala Thr Ala Ala Gly Thr Ala
35      40      45
Ser Ser Ala Ala Thr Ala Gln Gln Met Pro Ser Leu Ala Pro Met Leu
50      55      60
Glu Lys Val Met Pro Ser Val Val Ser Ile Asn Val Glu Gly Ser Thr
65      70      75      80
Thr Val Asn Thr Pro Arg Met Pro Arg Asn Phe Gln Gln Phe Phe Gly
85      90      95
Asp Asn Ser Pro Phe Cys Gln Asp Gly Ser Pro Phe Gln Ser Ser Pro
100     105     110
Phe Cys Gln Gly Gly Gly Ala Gly Asp Asp Gly Met Gly Gly Gly Gln
115     120     125
Gln Gln Lys Phe Met Ala Leu Gly Ser Gly Val Ile Ile Asp Ala Ala
130     135     140
Lys Gly Tyr Val Val Thr Asn Asn His Val Val Asp Asn Ala Asn Thr
145     150     155     160
Ile Lys Val Gln Met Ser Asp Gly Arg Lys Phe Asp Ala Lys Val Val
165     170     175
Gly Lys Asp Pro Arg Ser Asp Ile Ala Leu Ile Gln Ile Gln Asp Pro
180     185     190
Lys Asn Leu Thr Ala Ile Lys Leu Ala Asp Ser Asp Ala Leu Arg Val
195     200     205
Gly Asp Tyr Thr Val Ala Ile Gly Asn Pro Phe Gly Leu Gly Glu Thr
210     215     220
Val Thr Ser Gly Ile Val Ser Ala Leu Gly Arg Ile Gly Leu Asn Ala
225     230     235     240
Glu Asn Tyr Glu Asn Phe Ile Gln Thr Asp Ala Ala Ile Asn Arg Gly
245     250     255
Asn Ser Gly Gly Ala Leu Val Asn Leu Asn Gly Glu Leu Ile Gly Ile
260     265     270
Asn Thr Ala Ile Leu Ala Pro Asp Gly Gly Asn Ile Gly Ile Gly Phe
275     280     285
Ala Ile Pro Ser Asn Met Val Lys Asn Leu Thr Ala Gln Met Val Gln
290     295     300
Tyr Gly Gln Val Lys Arg Gly Glu Leu Gly Ile Met Gly Thr Glu Leu
305     310     315     320
Asn Ser Glu Leu Ala Lys Ala Met Lys Val Asp Ala Gln Arg Gly Ala
325     330     335
Phe Val Ser Gln Val Met Pro Asn Ser Ser Ala Ala Lys Ala Gly Ile
340     345     350
Lys Ala Gly Asp Val Ile Thr Ser Leu Asn Gly Lys Pro Ile Ser Ser
355     360     365
Phe Ala Ala Leu Arg Ala Glu Val Gly Ser Met Pro Ile Gly Ser Lys
370     375     380
Val Thr Leu Gly Leu Leu Arg Glu Gly Lys Pro Val Asn Val Ser Leu
385     390     395     400
Glu Leu Gln Gln Ser Ser Gln Asn Gln Val Asp Ser Ser Thr Ile Phe
405     410     415
Ser Gly Ile Glu Gly Ala Glu Met Ser Asn Lys Gly Ala Asp Lys Gly
420     425     430
Val Val Val Asn Asn Val Lys Ala Asn Ser Pro Ala Ala Arg Ile Gly
435     440     445
Leu Lys Lys Gly Asp Val Ile Met Gly Ala Asn Gln Gln Pro Val Lys

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```

      450              455              460
Asn Ile Ala Glu Leu Arg Lys Ile Leu Asp Ser Lys Pro Ser Val Leu
465              470              475              480
Ala Leu Asn Ile Gln Arg Gly Asp Thr Ser Ile Tyr Leu Leu Met Gln
              485              490              495

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<210> 8344

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 8344

```

Gln Ser Gln Glu Arg Asn Met Ala Thr Asn Ala Lys Pro Val Tyr Lys
1              5              10              15
Arg Ile Leu Leu Lys Leu Ser Gly Glu Ala Leu Gln Gly Ser Glu Gly
              20              25              30
Phe Gly Ile Asp Ala Ser Ile Leu Asp Arg Met Ala Gln Glu Ile Lys
35              40              45
Glu Leu Val Glu Leu Gly Ile Gln Val Gly Val Val Ile Gly Gly Gly
50              55              60
Asn Leu Phe Arg Gly Ala Gly Leu Ala Lys Ala Gly Met Asn Arg Val
65              70              75              80
Val Gly Asp His Met Gly Met Leu Ala Thr Val Met Asn Gly Leu Ala
              85              90              95
Met Arg Asp Ala Leu His Arg Ala Tyr Val Asn Ala Arg Leu Met Ser
100              105              110
Ala Asn Pro Leu Asn Gly Val Cys Asp Asn Tyr Ser Trp Ala Glu Ala
115              120              125
Ile Ser Leu Leu Arg Asn Asn Arg Val Val Ile Leu Ser Ala Gly Thr
130              135              140
Gly Asn Pro Phe Phe Thr Thr Asp Ser Ala Ala Cys Leu Ala Arg Tyr
145              150              155              160
Arg Asn Arg Ser Arg Cys Gly Ala Glu Ser Asp Gln Ser Arg Trp Arg
              165              170              175
Val Tyr Cys Arg Pro Gly Lys Arg Ser Phe Ser Asp His Val Arg Ser
180              185              190
Ala Glu Leu Gln Arg Ser Ala Gly Lys Arg Ala Lys Ser Asp Gly Ser
195              200              205
Cys Arg Leu Tyr Ala Gly Ser
210              215

```

<210> 8345

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 8345

```

Asp Lys Phe Ser Arg Ile Arg Asn Val Ile Asn Asp Ile Arg Lys Asp
1              5              10              15
Ala Glu Val Arg Met Asp Lys Cys Val Glu Ala Phe Lys Asn Gln Ile
20              25              30
Ser Lys Ile Arg Thr Gly Arg Ala Ser Pro Ser Leu Leu Asp Gly Ile
35              40              45
Ile Val Glu Tyr Tyr Gly Thr Pro Thr Pro Leu Arg Gln Leu Ala Ser
50              55              60
Val Thr Val Glu Asp Thr Arg Thr Leu Lys Ile Asn Val Phe Asp Arg
65              70              75              80
Ser Met Ser Pro Ala Val Glu Lys Ala Ile Met Ala Ser Asp Leu Gly
85              90              95

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Leu Asn Pro Ser Ser Ala Gly Ala Asp Ile Arg Val Pro Leu Pro Pro
 100 105
 Leu Thr Glu Glu Arg Arg Lys Asp Leu Ile Lys Val Val Arg Gly Glu
 115 120 125
 Ala Glu Gln Gly Arg Val Ser Val Arg Asn Val Arg Arg Asp Ala Asn
 130 135 140
 Asp Lys Val Lys Ala Leu Leu Lys Glu Lys Glu Ile Ser Glu Asp Asp
 145 150 155 160
 Asp Arg Arg Ser Gln Asp Asp Ile Gln Lys Met Thr Asp Ala Ala Ile
 165 170 175
 Lys Lys Ile Asp Ala Ala Leu Ala Glu Lys Glu Ala Glu Leu Met Gln
 180 185 190
 Phe

<210> 8346

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 8346

Gln Pro Tyr Arg Gly Cys Ser Cys Ile Cys Leu Pro Ala Phe Thr Gly
 5 10 15
 Val Trp Asp Asp Ile Thr Glu Gly Phe Met Leu Ser Ile Leu Trp Asn
 20 25 30
 Leu Ala Ala Phe Ile Val Ala Leu Gly Val Leu Ile Thr Val His Glu
 35 40 45
 Phe Gly His Phe Trp Val Ala Arg Arg Cys Gly Val Arg Val Glu Arg
 50 55 60
 Phe Ser Ile Gly Phe Gly Lys Ser Leu Trp Lys Arg Thr Asp Lys His
 65 70 75 80
 Gly Thr Glu Phe Val Ile Ala Leu Ile Pro Leu Gly Gly Tyr Val Lys
 85 90 95
 Met Leu Asp Glu Arg Val Glu Pro Val Ala Pro Glu Leu Arg His Arg
 100 105 110
 Ala Phe Asn Asn Lys Thr Val Gly Gln Arg Ala Ala Ile Ile Ala Ala
 115 120 125
 Gly Pro Val Ala Asn Phe Ile Phe Ala Ile Phe Ala Tyr Trp Leu Val
 130 135 140
 Phe Ile Ile Gly Val Pro Gly Val Arg Pro Val Val Gly Glu Ile Thr
 145 150 155 160
 Thr Gly Ser Ile Ala Ala Thr Ala Gln Ile Thr Pro Gly Met Glu Leu
 165 170 175
 Lys Ala Ile Asp Gly Ile Glu Thr Pro Asp Trp Asp Ala Val Arg Leu
 180 185 190
 Gln Leu Val Ala Lys Ile Gly Asp Glu Gln Thr Thr Val Ser Val Ser
 195 200 205
 Pro Phe Gly Ser Asp Gln Arg Gln Glu Lys Val Leu Asp Leu Arg His
 210 215 220
 Trp Arg Phe Glu Pro Asp Lys Glu Asp Pro Val Ala Ala Leu Gly Ile
 225 230 235 240
 Arg Pro Arg Gly Ala Gln Ile Glu Pro Val Leu Ala Glu Val Gln Ala
 245 250 255
 Lys Ser Ala Ala Ser Lys Ala Gly Leu Gln Ala Gly Asp Arg Ile Val
 260 265 270
 Lys Val Asp Gly Gln Pro Leu Thr Gln Trp Met Thr Phe Val Thr Leu
 275 280 285
 Val Arg Asp Asn Pro Gly Lys Pro Leu Ala Leu Glu Val Glu Arg Gln
 290 295 300
 Gly Ser Ser Leu Ser Leu Thr Leu Thr Pro Asp Thr Lys Ser Gly Gly
 305 310 315 320

Gly Lys Ala Glu Gly Phe Ala Gly Val Val Pro Lys Val Ile Pro Leu
 325 330 335
 Pro Asp Glu Tyr Lys Thr Ile Arg Gln Tyr Gly Pro Phe Ser Ala Ile
 340 345 350
 Val Glu Ala Thr Asp Lys Thr Trp Gln Leu Met Lys Leu Thr Val Asn
 355 360 365
 Met Leu Gly Lys Leu Ile Thr Gly Asp Val Lys Leu Asn Asn Leu Ser
 370 375 380
 Gly Pro Ile Ser Ile Ala Gln Gly Ala Gly Met Ser Ala Glu Phe Gly
 385 390 395 400
 Val Ile Tyr Tyr Leu Met Phe Leu Ala Leu Ile Ser Val Asn Leu Gly
 405 410 415
 Ile Ile Asn Leu Phe Pro Leu Pro Val Leu Asp Gly Gly His Leu Leu
 420 425 430
 Phe Leu Ala Ile Glu Lys Leu Lys Gly Gly Pro Val Ser Glu Arg Val
 435 440 445
 Gln Asp Phe Ser Tyr Arg Ile Gly Ser Ile Leu Leu Val Leu Leu Met
 450 455 460
 Gly Leu Ala Leu Phe Asn Asp Phe Ser Arg Leu
 465 470 475

<210> 8347

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 8347

Ala Gln Asn Arg Ser Thr Arg Leu Ser Val His Pro Phe Asn Ala Lys
 1 5 10 15
 Phe Pro Gly Leu Ser Ala Leu Phe Ile Asn Arg Gln Ala Val Leu Leu
 20 25 30
 Leu Leu Leu Ser Thr Phe Asp Arg Lys Ser Ile Leu Thr Thr Tyr Thr
 35 40 45
 His Thr Leu His Ile Glu Glu Ile Leu Glu Leu Leu Pro His Arg Tyr
 50 55 60
 Pro Phe Leu Leu Val Asp Arg Val Leu Asp Phe Glu Glu Arg Phe
 65 70 75 80
 Leu Arg Ala Val Lys Asn Val Ser Val Asn Glu Pro Phe Phe Gln Gly
 85 90 95
 His Phe Pro Gly Lys Pro Ile Phe Pro Gly Val Leu Ile Leu Glu Ala
 100 105 110
 Met Ala Gln Ala Thr Gly Ile Leu Ala Phe Lys Ser Val Gly Lys Leu
 115 120 125
 Glu Pro Gly Glu Leu Tyr Tyr Phe Ala Gly Ile Asp Glu Ala Arg Phe
 130 135 140
 Lys Arg Pro Val Val Pro Gly Asp Gln Met Ile Met Glu Val Thr Phe
 145 150 155 160
 Glu Lys Thr Arg Arg Gly Leu Thr Arg Phe Lys Gly Val Ala Met Val
 165 170 175
 Asp Gly Lys Val Val Cys Glu Ala Thr Met Met Cys Ala Arg Ser Arg
 180 185 190
 Glu Ala
 195

<210> 8348

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8348

Tyr Val Ile Asp Lys Ser Ala Phe Ile His Pro Thr Ala Ile Val Glu


```

1           5           10           15
Thr Gly Ala Ile Ile Gly Ala Asn Val His Ile Gly Pro Phe Cys Ile
20
Val Gly Pro His Val Glu Ile Gly Glu Gly Thr Val Leu Lys Ser His
35
Val Val Val Asn Gly His Thr Thr Ile Gly Cys Asn Asn Glu Ile Tyr
50
Gln Phe Ala Ser Ile Gly Glu Val Asn Gln Asp Leu Lys Tyr Ala Gly
65
Glu Pro Thr Arg Val Glu Ile Gly Asp Arg Asn Arg Ile Arg Glu Ser
85
Val Thr Ile His Arg Gly Thr Thr Gln Gly Gly Gly Leu Thr Lys Val
100
Gly Ser Asp Asn Leu Phe Met Val Asn Ala His Ile Ala His Asp Cys
115
Thr Val Gly Ser Arg Cys Ile Leu Ala Asn Asn Ala Thr Leu Ala Gly
130
His Val Ser Val Asp Asp Phe Ala Ile Ile Gly Gly Met Thr Ala Val
145
His Gln Phe Cys Ile Ile Gly Ala His Val Met Val Gly Gly Cys Ser
165
Gly Val Ala Gln Asp Val Pro Pro Phe Val Ile Ala Gln Gly Asn His
180
Ala Thr Pro Phe Gly Val Asn Ile Glu Gly Leu Lys Arg Arg Gly Phe
195
Ser Arg Glu Ala Ile Thr Ala Ile Arg Asn Ala Tyr Lys Leu Leu Tyr
210
Arg Ser Gly Lys Thr Leu Glu Glu Ala Lys Pro Glu Ile Ala Glu Leu
225
Ala Asn Lys His Pro Glu Val Lys Thr Phe Met Glu Phe Phe Glu Arg
245
Ser Thr Arg Gly Leu Ile Arg
260

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<210> 8349

<211> 1167

<212> PRT

<213> Enterobacter cloacae

<400> 8349

```

Val Thr Arg Asp Leu Lys Met Ala Glu Pro Arg Phe Val His Leu Arg
1           5           10           15
Val His Ser Asp Tyr Ser Met Ile Asp Gly Leu Ala Lys Thr Gly Pro
20
Leu Val Lys Lys Ala Ala Ser Leu Gly Met Pro Ala Leu Ala Ile Thr
35
Asp Phe Thr Asn Leu Cys Gly Leu Val Lys Phe Tyr Gly Thr Ala His
50
Gly Ala Gly Leu Lys Pro Ile Val Gly Ala Asp Phe His Val Gln Ser
65
Asp Leu Leu Gly Asp Glu Met Thr Gln Ile Ser Val Leu Ala Met Asn
85
Asn Thr Gly Tyr Gln Asn Leu Thr Leu Leu Ile Ser Lys Ala Tyr Gln
100
Arg Gly Tyr Gly Ala Leu Gly Pro Trp Ile Asp Arg Asp Trp Leu Ala
115
Glu Leu Asn Glu Gly Leu Leu Leu Ile Ser Gly Gly Arg Met Gly Asp
130
Val Gly Lys Cys Leu Leu Arg Gly Asn Asn Ala Leu Val Asp Gln Cys
145
Val Ser Phe Tyr Glu Glu Tyr Phe Pro Asp Arg Tyr Tyr Leu Glu Leu
160

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Ile	Arg	Thr	Gly	65	Arg	Ala	Asp	Glu	Glu	170	Ser	Tyr	Leu	His	Ala	175	Ala	Val
Ala	Leu	Ala	Glu	180	Ala	Arg	Gly	Leu	Pro	185	Val	Val	Ala	Thr	Asn	190	Asp	Val
Arg	Phe	Leu	Glu	195	Ala	Gly	Asp	Phe	Asp	200	Ala	His	Glu	Ile	Arg	205	Val	Ala
Ile	His	Asp	Gly	210	Phe	Thr	Leu	Asp	Asp	215	Pro	Lys	Arg	Pro	Arg	220	Asn	Thr
225	Ser	Ser	Gln	Gln	Tyr	Met	Arg	Ser	Glu	230	Glu	Glu	Met	Cys	Glu	235	Leu	Phe
Ser	Asp	Ile	Pro	245	Glu	Ala	Leu	Glu	Asn	250	Ser	Val	Glu	Ile	Ala	255	Lys	Arg
Cys	Asn	Val	Thr	260	Thr	Val	Arg	Leu	Gly	265	Glu	Tyr	Phe	Leu	Pro	270	Gln	Pro
Thr	Gly	Asp	Met	275	Thr	Thr	Glu	Asp	Phe	280	Leu	Val	Met	Lys	Ser	285	Lys	Glu
Gly	Leu	Glu	Glu	290	Arg	Leu	Glu	Phe	Leu	295	Phe	Pro	Asp	Glu	Ala	300	Val	Arg
305	Lys	Glu	Lys	310	Arg	Pro	Glu	Tyr	Asp	315	Glu	Arg	Leu	Asp	Ile	320	Leu	Gln
Val	Ile	Asn	Gln	325	Met	Gly	Phe	Pro	Gly	330	Tyr	Phe	Leu	Ile	Val	335	Met	Glu
Phe	Ile	Gln	Trp	340	Ser	Lys	Asp	Asn	Gly	345	Val	Pro	Val	Gly	Pro	350	Gly	Arg
Gly	Ser	Gly	Ala	355	Gly	Ser	Leu	Val	Ala	360	Tyr	Ala	Leu	Lys	Ile	365	Thr	Asp
Leu	Asp	Pro	Leu	370	Glu	Phe	Asp	Leu	Leu	375	Phe	Glu	Arg	Phe	Leu	380	Asn	Pro
385	Glu	Arg	Val	390	Ser	Met	Pro	Asp	Phe	395	Val	Glu	Asp	Cys	Met	400	Glu	Lys
Arg	Asp	Gln	Val	405	Ile	Glu	His	Val	Ala	410	Asp	Met	Tyr	Gly	Arg	415	Asp	Ala
Val	Ser	Gln	Ile	420	Ile	Thr	Phe	Gly	Thr	425	Met	Ala	Ala	Lys	Ala	430	Val	Ile
Arg	Asp	Val	Gly	435	Arg	Val	Leu	Gly	His	440	Pro	Tyr	Gly	Phe	Val	445	Asp	Arg
Ile	Ser	Lys	Leu	450	Val	Pro	Pro	Asp	Pro	455	Gly	Met	Thr	Leu	Ala	460	Lys	Ala
465	Phe	Glu	Ala	470	Glu	Pro	Gln	Leu	Pro	475	Glu	Ile	Tyr	Glu	Ala	480	Glu	Glu
Val	Lys	Ala	Leu	485	Ile	Asp	Met	Ala	Arg	490	Lys	Leu	Glu	Gly	Val	495	Thr	Arg
Asn	Ala	Gly	Lys	500	His	Ala	Gly	Gly	Val	505	Val	Ile	Ala	Pro	Thr	510	Lys	Ile
Thr	Asp	Phe	Ala	515	Pro	Leu	Tyr	Cys	Asp	520	Glu	Ala	Gly	Gln	His	525	Pro	Val
Thr	Gln	Phe	Asp	530	Lys	Asn	Asp	Val	Glu	535	Tyr	Ala	Gly	Leu	Val	540	Lys	Phe
545	Asp	Phe	Leu	550	Gly	Leu	Arg	Thr	Leu	555	Ile	Ile	Asn	Trp	Ala	560	Leu	Glu
Met	Ile	Asn	Ala	565	Arg	Arg	Glu	Lys	Asn	570	Gly	Glu	Pro	Pro	Leu	575	Asp	Ile
Ala	Ala	Ile	Pro	580	Leu	Asp	Asp	Lys	Lys	585	Ser	Phe	Asp	Met	Leu	590	Gln	Arg
Ser	Glu	Thr	Thr	595	Ala	Val	Phe	Gln	Leu	600	Glu	Ser	Arg	Gly	Met	605	Lys	Asp
Leu	Ile	Lys	Arg	610	Leu	Gln	Pro	Asp	Cys	615	Phe	Glu	Asp	Met	Ile	620	Ala	Leu
625	Val	Ala	Leu	630	Phe	Arg	Pro	Gly	Pro	635	Leu	Gln	Ser	Gly	Met	640	Val	Asn
				645						650						655		

Phe Ile Asp Arg Lys His Gly Arg Glu Ile Ser Tyr Pro Asp Val
 660 665 670
 Gln Trp Gln His Glu Ser Leu Lys Pro Val Leu Glu Pro Thr Tyr Gly
 675 680 685
 Ile Ile Leu Tyr Gln Glu Gln Val Met Gln Ile Ala Gln Val Leu Ser
 690 695 700
 Gly Tyr Thr Leu Gly Gly Ala Asp Met Leu Arg Arg Ala Met Gly Lys
 705 710 715 720
 Lys Lys Pro Glu Glu Met Ala Lys Gln Arg Ser Ile Phe Glu Asp Gly
 725 730 735
 Ala Lys Lys Asn Gly Ile Asp Gly Glu Leu Ala Met Lys Ile Phe Asp
 740 745 750
 Leu Val Glu Lys Phe Ala Gly Tyr Gly Phe Asn Lys Ser His Ser Ala
 755 760 765
 Ala Tyr Ala Leu Val Ser Tyr Gln Thr Leu Trp Leu Lys Ala His Tyr
 770 775 780
 Pro Ala Glu Phe Met Ala Ala Val Met Thr Ala Asp Met Asp Asn Thr
 785 790 795 800
 Glu Lys Val Val Gly Leu Val Asp Glu Cys Trp Arg Met Gly Leu Lys
 805 810 815
 Ile Leu Pro Pro Asp Ile Asn Ser Gly Leu Tyr His Phe His Val Asn
 820 825 830
 Asp Asp Gly Glu Ile Val Tyr Gly Ile Gly Ala Ile Lys Gly Val Gly
 835 840 845
 Glu Gly Pro Ile Glu Ala Ile Ile Glu Ala Arg Asn Asn Gly Gly Tyr
 850 855 860
 Phe Arg Glu Leu Phe Asp Leu Cys Ala Arg Thr Asp Thr Lys Lys Leu
 865 870 875 880
 Asn Arg Arg Val Leu Glu Lys Leu Ile Met Ser Gly Ala Phe Asp Arg
 885 890 895
 Leu Gly Pro His Arg Ala Ala Leu Met Asn Ser Leu Gly Asp Ala Leu
 900 905 910
 Lys Ala Ala Asp Gln His Ala Lys Ala Glu Ala Ile Gly Gln Ala Asp
 915 920 925
 Met Phe Gly Val Leu Ala Glu Glu Pro Glu Gln Ile Glu Gln Ser Tyr
 930 935 940
 Ser Asn Cys Gln Pro Trp Pro Glu Gln Val Val Leu Asp Gly Glu Arg
 945 950 955 960
 Glu Thr Leu Gly Leu Tyr Leu Thr Gly His Pro Ile Asn Gln Tyr Leu
 965 970 975
 Lys Glu Ile Glu Arg Tyr Val Gly Gly His Arg Leu Lys Asp Met His
 980 985 990
 Pro Thr Glu Arg Gly Lys Ile Thr Thr Ala Ala Gly Leu Val Ile Ala
 995 1000 1005
 Ala Arg Val Met Val Thr Lys Arg Gly Asn Arg Ile Gly Ile Cys Thr
 1010 1015 1020
 Leu Asp Asp Arg Ser Gly Arg Leu Glu Val Met Leu Phe Thr Asp Ala
 1025 1030 1035 1040
 Leu Asp Lys Tyr Gln Gln Leu Leu Glu Lys Asp Arg Ile Leu Ile Val
 1045 1050 1055
 Ser Gly Gln Val Ser Phe Asp Asp Phe Ser Gly Gly Leu Lys Met Thr
 1060 1065 1070
 Ala Arg Glu Val Met Asp Ile Asp Glu Ala Arg Glu Lys Tyr Ala Arg
 1075 1080 1085
 Gly Leu Ala Ile Ser Leu Thr Asp Arg Gln Ile Asp Asp Gln Leu Leu
 1090 1095 1100
 Asn Arg Leu Arg Gln Ser Leu Glu Pro His Arg Ser Gly Thr Ile Pro
 1105 1110 1115 1120
 Val His Leu Tyr Tyr Gln Arg Ala Asp Ala Arg Ala Arg Leu Arg Phe
 1125 1130 1135
 Gly Ala Thr Trp Arg Val Ser Pro Ser Asp Arg Leu Leu Asn Asp Leu

1140 1145 1150
 Arg Gly Leu Ile Gly Ser Glu Gln Val Glu Leu Glu Phe Asp
 1155 1160 1165

<210> 8350
 <211> 324
 <212> PRT
 <213> Enterobacter cloacae

<400> 8350
 Tyr Arg Asn Thr Met Ser Leu Asn Phe Leu Asp Phe Glu Gln Pro Ile
 1 5 10 15
 Ala Glu Leu Glu Ala Lys Ile Asp Ser Leu Thr Ala Val Ser Arg Gln
 20 25 30
 Asp Glu Lys Leu Asp Ile Asn Ile Asp Glu Glu Val His Arg Leu Arg
 35 40 45
 Glu Lys Ser Val Glu Leu Thr Arg Lys Ile Phe Ala Asp Leu Gly Ala
 50 55 60
 Trp Gln Ile Ala Gln Leu Ala Arg His Pro Gln Arg Pro Tyr Thr Leu
 65 70 75 80
 Asp Tyr Val Arg Leu Ala Phe Asp Glu Phe Asp Glu Leu Ala Gly Asp
 85 90 95
 Arg Ala Tyr Ala Asp Asp Lys Ala Ile Val Gly Gly Ile Ala Arg Leu
 100 105 110
 Asp Gly Arg Pro Val Met Ile Ile Gly His Gln Lys Gly Arg Glu Thr
 115 120 125
 Lys Glu Lys Ile Arg Arg Asn Phe Gly Met Pro Ala Pro Glu Gly Tyr
 130 135 140
 Arg Lys Ala Leu Arg Leu Met Glu Met Ala Glu Arg Phe Asn Met Pro
 145 150 155 160
 Ile Ile Thr Phe Ile Asp Thr Pro Gly Ala Tyr Pro Gly Val Gly Ala
 165 170 175
 Glu Glu Arg Gly Gln Ser Glu Ala Ile Ala Arg Asn Leu Arg Glu Met
 180 185 190
 Ser Arg Leu Lys Val Pro Val Ile Cys Thr Val Ile Gly Glu Gly Gly
 195 200 205
 Ser Gly Gly Ala Leu Ala Ile Gly Val Gly Asp Lys Val Asn Met Leu
 210 215 220
 Gln Tyr Ser Thr Tyr Ser Val Ile Ser Pro Glu Gly Cys Ala Ser Ile
 225 230 235 240
 Leu Trp Lys Ser Ala Asp Lys Ala Pro Leu Ala Ala Glu Ala Met Gly
 245 250 255
 Ile Ile Ala Pro Arg Leu Lys Glu Leu Lys Leu Ile Asp Thr Val Ile
 260 265 270
 Pro Glu Pro Leu Gly Gly Ala His Arg Lys Pro Glu Val Met Ala Ala
 275 280 285
 Ser Leu Lys Ala Gln Leu Leu Ala Asp Leu Ala Asp Leu Asp Val Leu
 290 295 300
 Ser Thr Glu Asp Leu Leu Asn Arg Arg Tyr Gln Arg Leu Met Thr Tyr
 305 310 315 320
 Gly Tyr Ala

<210> 8351
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<400> 8351
 Gln Ser Gln Tyr Ser Trp Glu His Lys Met Ser Asp Asp Val Ala Leu
 1 5 10 15

```

Pro Leu Glu Phe Thr Glu Ala Ala Lys Lys Val Lys Thr Leu Ile
      20      25      30
Ala Asp Glu Asp Asn Pro Asp Leu Lys Leu Arg Val Tyr Ile Thr Gly
      35      40      45
Gly Gly Cys Ser Gly Phe Gln Tyr Gly Phe Thr Phe Asp Asp Gln Val
      50      55      60
Asn Asp Gly Asp Met Thr Ile Glu Lys Gln Gly Val Ala Leu Val Val
      65      70      75      80
Asp Pro Met Ser Leu Gln Tyr Leu Val Gly Gly Ser Val Asp Tyr Thr
      85      90      95
Glu Gly Leu Glu Gly Ser Arg Phe Val Val Thr Asn Pro Asn Ala Thr
      100      105      110
Ser Thr Cys Gly Cys Gly Ser Ser Phe Ser Ile
      115      120

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<210> 8352

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 8352

```

Tyr Gly Ile Arg Gly Gly Ile Thr Pro Thr Phe Asn Ile Glu Val Leu
      1      5      10      15
Asn Met Ala Thr Val Ser Met Arg Asp Met Leu Lys Ala Gly Val His
      20      25      30
Phe Gly His Gln Thr Arg Tyr Trp Asn Pro Lys Met Lys Pro Phe Ile
      35      40      45
Phe Gly Ala Arg Asn Lys Val His Ile Ile Asn Leu Glu Lys Thr Val
      50      55      60
Pro Met Phe Asn Glu Ala Leu Ala Glu Leu Asn Lys Ile Ser Ser Arg
      65      70      75      80
Lys Gly Lys Ile Leu Phe Val Gly Thr Lys Arg Ala Ala Ser Glu Ala
      85      90      95
Val Lys Asp Ala Ala Asn Ser Cys Asp Gln Phe Phe Val Asn His Arg
      100      105      110
Trp Leu Gly Gly Met Leu Thr Asn Trp Lys Thr Val Arg Gln Ser Ile
      115      120      125
Lys Arg Leu Lys Asp Leu Glu Thr Gln Ser Gln Asp Gly Thr Phe Asp
      130      135      140
Lys Leu Thr Lys Lys Glu Ala Leu Met Arg Thr Arg Glu Leu Asp Lys
      145      150      155      160
Leu Glu Asn Ser Leu Gly Gly Ile Lys Asp Met Gly Gly Leu Pro Asp
      165      170      175
Ala Leu Phe Val Ile Asp Ala Asp His Glu His Ile Ala Ile Lys Glu
      180      185      190
Ala Asn Asn Leu Gly Ile Pro Val Phe Ala Ile Val Asp Thr Asn Ser
      195      200      205
Asp Pro Asp Gly Val Asp Phe Val Ile Pro Gly Asn Asp Asp Ala Ile
      210      215      220
Arg Ala Val Ser Leu Tyr Leu Ser Ala Val Ala Ala Thr Val Arg Glu
      225      230      235      240
Gly Arg Ser Gln Asp Leu Ala Ser Gln Ala Glu Glu Ser Phe Val Glu
      245      250      255
Ala Glu

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<210> 8353

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 8353

```

Ile Gly Ala His Tyr Arg Pro Leu Phe Ser Ile Tyr Thr Val Trp Leu
1      5      10      15
Pro Ala Gly Gln Phe Thr Ser Pro Glu Asp Leu Arg Met Ala Glu Ile
      20      25      30
Thr Ala Ser Leu Val Lys Glu Leu Arg Glu Arg Thr Gly Ala Gly Met
      35      40      45
Met Asp Cys Lys Lys Ala Leu Thr Glu Ala Asn Gly Asp Ile Glu Leu
      50      55      60
Ala Ile Glu Asn Met Arg Lys Ser Gly Ala Ile Lys Ala Ala Lys Lys
65      70      75      80
Ala Gly Asn Val Ala Ala Asp Gly Val Ile Ile Thr Lys Ile Asp Gly
      85      90      95
Asn Tyr Gly Ile Ile Leu Glu Val Asn Cys Gln Thr Asp Phe Val Ala
      100     105     110
Lys Asp Ala Gly Phe Gln Ala Phe Ala Asn Lys Val Leu Asp Ala Ala
      115     120     125
Val Ala Gly Lys Ile Thr Asp Val Glu Val Leu Lys Ala Gln Phe Glu
130     135     140
Glu Glu Arg Val Ala Leu Val Ala Iys Ile Gly Glu Asn Ile Asn Ile
145     150     155     160
Arg Arg Val Ala Ser Leu Glu Gly Asp Val Leu Gly Ser Tyr Gln His
      165     170     175
Gly Ala Arg Ile Gly Val Leu Val Ala Ala Lys Gly Ala Asp Glu Glu
      180     185     190
Leu Val Lys Gln Leu Ala Met His Ile Ala Ala Ser Lys Pro Glu Phe
195     200     205
Val Lys Pro Glu Asp Val Ser Ala Glu Val Val Glu Lys Glu Tyr Gln
210     215     220
Val Gln Leu Asp Ile Ala Met Gln Ser Gly Lys Pro Lys Glu Ile Ala
225     230     235     240
Glu Lys Met Val Glu Gly Arg Met Lys Lys Phe Thr Gly Glu Val Ser
      245     250     255
Leu Thr Gly Gln Pro Phe Val Met Asp Pro Ser Lys Ser Val Ala Gln
      260     265     270
Leu Leu Lys Glu His Asn Ala Asp Val Thr Gly Phe Ile Arg Phe Glu
      275     280     285
Val Gly Glu Gly Ile Glu Lys Val Glu Thr Asp Phe Ala Ala Glu Val
290     295     300
Ala Ala Met Ser Lys Gln Ser
305     310

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<210> 8354

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 8354

```

Ser Ser Pro Pro Val Arg Val Thr Arg Ser Leu Pro Pro Ile Pro Gln
1      5      10      15
Pro Ala Trp Arg Gly Ile Glu Ile Glu Ala Asp Val Val Leu Lys Ala
      20      25      30
Thr Lys Val Asp Gly Val Phe Thr Ala Asp Pro Ala Lys Asp Pro Ser
      35      40      45
Ala Thr Met Tyr Asp Gln Leu Ser Tyr Ser Glu Val Leu Glu Lys Glu
      50      55      60
Leu Lys Val Met Asp Leu Ala Ala Phe Thr Leu Ala Arg Asp His Lys
65      70      75      80
Leu Pro Ile Arg Val Phe Asn Met Asn Lys Pro Gly Ala Leu Arg Arg
      85      90      95
Val Val Met Gly Glu Lys Glu Gly Thr Leu Ile Thr Glu

```

100

105

110

<210> 8355

<211> 256

<212> PRT

<213> *Enterobacter cloacae*

<400> 8355

```

Lys Arg Val Met Leu Ser Ala Asn Gln Pro Ile Ser Glu Asn Leu Pro
1      5      10      15
Ala His Gly Cys Arg His Val Ala Ile Met Asp Gly Asn Gly Arg
20      25      30
Trp Ala Lys Arg Gln Gly Lys Ile Arg Ala Phe Gly His Lys Ala Gly
35      40      45
Ala Lys Ser Val Arg Arg Ala Val Ser Phe Ala Ala Asn Asn Gly Ile
50      55      60
Asp Ala Leu Thr Leu Tyr Ala Phe Ser Ser Glu Asn Trp Asn Arg Pro
65      70      75      80
Ala Gln Glu Val Thr Ala Leu Met Glu Leu Phe Val Trp Ala Leu Asp
85      90      95
Ser Glu Val Lys Ser Leu His Arg His Asn Val Arg Leu Arg Ile Ile
100     105     110
Gly Glu Thr Ser Arg Phe Asn Ser Arg Leu Gln Glu Arg Ile Arg Lys
115     120     125
Ala Glu Ala Leu Thr Glu Asn Asn Thr Gly Leu Thr Leu Asn Ile Ala
130     135     140
Ala Asn Tyr Gly Gly Arg Trp Asp Ile Ile Gln Gly Val Arg His Leu
145     150     155     160
Ala Glu Gln Val Gln Glu Gly Leu Leu Arg Pro Asp Gln Ile Asp Glu
165     170     175
Glu Ala Leu Ser Gln Gln Ile Cys Met Asn Glu Leu Ala Pro Val Asp
180     185     190
Leu Val Ile Arg Thr Gly Gly Glu His Arg Ile Ser Asn Phe Leu Leu
195     200     205
Trp Gln Ile Ala Tyr Ala Glu Leu Tyr Phe Thr Asp Val Leu Trp Pro
210     215     220
Asp Phe Asp Glu Gln Asp Phe Glu Gly Ala Leu His Ala Phe Ala Asn
225     230     235     240
Arg Glu Arg Arg Phe Gly Gly Thr Glu Pro Gly Gly Asp Asn Ala
245     250     255

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<210> 8356

<211> 287

<212> PRT

<213> *Enterobacter cloacae*

<400> 8356

```

Leu Leu Leu Lys Tyr Arg Leu Ile Ser Ala Phe Val Leu Ile Pro Val
1      5      10      15
Val Ile Ala Ala Leu Phe Leu Leu Pro Pro Val Gly Phe Ala Ile Val
20      25      30
Thr Leu Val Val Cys Met Leu Ala Ala Trp Glu Trp Gly Gln Leu Ser
35      40      45
Gly Phe Thr Ser Arg Thr Gln Arg Val Trp Leu Ala Val Leu Cys Gly
50      55      60
Phe Leu Leu Ala Leu Met Leu Tyr Thr Leu Pro Glu Tyr His His Asp
65      70      75      80
Val His Gln Pro Leu Val Ala Gly Ser Leu Trp Ile Ser Leu Ala Trp
85      90      95
Trp Ile Ala Ala Leu Val Leu Val Leu Phe Tyr Pro Gly Ser Ala Ala
100     105     110

```

```

Ile Trp Arg Asn Ser Lys Val Leu Arg Leu Ile Phe Gly Leu Leu Thr
    115      120
Ile Val Pro Phe Phe Trp Gly Met Val Ala Leu Arg Ala Trp His Tyr
    130      135      140
Asp Glu Asn His Tyr Ser Gly Ala Ile Trp Leu Leu Tyr Val Met Ile
    145      150      155
Leu Val Trp Gly Ala Asp Ser Gly Ala Tyr Met Phe Gly Lys Leu Phe
    165      170      175
Gly Lys His Lys Leu Ala Pro Lys Val Ser Pro Gly Lys Thr Trp Gln
    180      185      190
Gly Phe Ile Gly Gly Leu Phe Thr Ala Ala Ile Ile Ser Trp Gly Tyr
    195      200      205
Gly Val Trp Ala Asn Leu Glu Val Ala Pro Ser Thr Leu Leu Val Cys
    210      215      220
Ser Ile Phe Ala Ala Leu Ala Ser Val Leu Gly Asp Leu Thr Glu Ser
    225      230      235
Met Phe Lys Arg Glu Ala Gly Ile Lys Asp Ser Gly His Leu Ile Pro
    245      250      255
Gly His Gly Gly Ile Leu Asp Arg Ile Asp Ser Leu Thr Ala Ala Val
    260      265      270
Pro Val Phe Ala Cys Leu Leu Leu Leu Val Phe Gly Thr Ile
    275      280      285

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<210> 8357

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 8357

```

Glu Glu Arg Ile Ile Thr Met Ala Met Lys Lys Leu Leu Ile Ala Ser
1      5      10      15
Leu Leu Phe Ser Ser Ala Thr Val Tyr Gly Ala Asp Gly Phe Val Val
    20      25      30
Lys Asp Ile His Phe Glu Gly Leu Gln Arg Val Ala Val Gly Ala Ala
    35      40      45
Leu Leu Ser Met Pro Val Arg Pro Gly Asp Thr Val Asn Asp Glu Asp
    50      55      60
Ile Ser Asn Thr Ile Arg Ala Leu Phe Ala Thr Gly Asn Phe Glu Asp
    65      70      75      80
Val Arg Val Leu Arg Asp Gly Asp Thr Leu Val Val Gln Val Lys Glu
    85      90      95
Arg Pro Thr Ile Ala Ser Ile Thr Phe Ser Gly Asn Lys Ser Val Lys
    100      105      110
Asp Asp Met Leu Lys Gln Asn Leu Glu Ala Ser Gly Val Arg Val Gly
    115      120      125
Glu Ser Leu Asp Arg Thr Thr Leu Ala Asp Ile Glu Lys Gly Leu Glu
    130      135      140
Asp Phe Tyr Tyr Ser Val Gly Lys Tyr Ser Ala Ser Val Lys Ala Val
    145      150      155      160
Val Thr Pro Leu Pro Arg Asn Arg Val Asp Leu Lys Leu Val Phe Gln
    165      170      175
Glu Gly Val Ser Ala Lys Ile Gln Gln Ile Asn Ile Val Gly Asn His
    180      185      190
Ala Phe Ser Thr Asp Glu Leu Ile Ser Asn Phe Gln Leu Arg Asp Glu
    195      200      205
Val Pro Trp Trp Asn Val Val Gly Asp Arg Lys Tyr Gln Lys Gln Lys
    210      215      220
Leu Ala Gly Asp Leu Glu Thr Leu Arg Ser Tyr Tyr Leu Asp Arg Gly
    225      230      235      240
Tyr Ala Arg Phe Asn Ile Asp Ser Thr Gln Val Ser Leu Thr Pro Asp
    245      250      255

```


Lys Lys Gly Ile Tyr Ile Thr Val Asn Ile Thr Glu Gly Asp Lys Tyr
 260 265 270
 Thr Leu Ser Gly Val Glu Val Ser Gly Asn Leu Ala Gly His Ser Ala
 275 280 285
 Glu Ile Glu Ser Leu Thr Lys Ile Gln Pro Gly Asp Leu Tyr Ser Gly
 290 295 300
 Ser Lys Val Thr Lys Met Glu Asp Ser Ile Lys Lys Leu Leu Gly Arg
 305 310 315 320
 Tyr Gly Tyr Ala Tyr Pro Arg Val Gln Thr Gln Pro Glu Ile Asn Asp
 325 330 335
 Thr Asp Lys Thr Val Lys Leu His Val Asn Val Asp Ala Gly Asn Arg
 340 345 350
 Phe Tyr Val Arg Lys Ile Arg Phe Glu Gly Asn Asp Thr Ser Lys Asp
 355 360 365
 Ser Val Leu Arg Arg Glu Met Arg Gln Met Glu Gly Ala Trp Leu Gly
 370 375 380
 Ser Asp Leu Val Asp Gln Gly Lys Glu Arg Leu Asn Arg Leu Gly Tyr
 385 390 395 400
 Phe Glu Thr Val Asp Thr Asp Thr Gln Arg Val Pro Gly Arg Pro Asp
 405 410 415
 Gln Val Asp Val Val Tyr Lys Val Lys Glu Arg Asn Thr Gly Ser Phe
 420 425 430
 Asn Phe Gly Ile Gly Tyr Gly Thr Glu Ser Gly Val Ser Phe Gln Val
 435 440 445
 Gly Val Gln Gln Asp Asn Trp Leu Gly Thr Gly Tyr Ser Val Gly Ile
 450 455 460
 Asn Gly Thr Lys Asn Asp Tyr Gln Thr Tyr Ser Glu Phe Ser Val Thr
 465 470 475 480
 Asn Pro

<210> 8358

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 8358

Phe Thr Val Asp Gly Val Ser Leu Gly Gly Arg Ile Phe Tyr Asn Asp
 1 5 10 15
 Phe Lys Ala Asp Asp Ala Asp Leu Ser Ser Tyr Thr Asn Lys Ser Tyr
 20 25 30
 Gly Leu Asp Gly Thr Leu Gly Phe Pro Val Asn Glu Tyr Asn Thr Leu
 35 40 45
 Arg Ala Gly Leu Gly Tyr Val His Asn Asp Leu Ser Asn Met Gln Pro
 50 55 60
 Gln Val Ala Met Trp Arg Tyr Leu Asp Ser Ile Gly Gln Ser Ala Ser
 65 70 75 80
 Thr Ser Ser Asp Asp Asn Gly Phe Ala Ala Asp Asp Phe Thr Phe Asn
 85 90 95
 Tyr Gly Trp Thr Tyr Asn Arg Leu Asp Arg Gly Tyr Phe Pro Thr Glu
 100 105 110
 Gly Ser Arg Val Asn Leu Asn Gly Lys Val Thr Ile Pro Gly Ser Asp
 115 120 125
 Asn Glu Phe Tyr Lys Val Thr Leu Asp Thr Ala Ser Tyr Phe Pro Ile
 130 135 140
 Asp Glu Asp His Lys Trp Val Val Leu Gly Arg Thr Arg Trp Gly Tyr
 145 150 155 160
 Gly Asp Gly Ile Gly Ser Lys Glu Leu Pro Phe Tyr Glu Asn Phe Tyr
 165 170 175
 Ala Gly Gly Ser Ser Thr Val Arg Gly Phe Gln Ser Asn Asn Ile Gly
 180 185 190

Pro Lys Ala Val Tyr Tyr Gly Gly Asn Asp Glu Asp Asn Cys Asn Lys
 195 200
 Pro Ala Thr Asp Gly Ala Gly Asn Lys Asn Val Cys Ser Ser Asp Asp
 210 215 220
 Ala Val Gly Gly Asn Ala Met Ala Val Ala Ser Leu Glu Phe Ile Thr
 225 230 235 240
 Pro Thr Pro Phe Ile Ser Asp Lys Tyr Ala Asn Ser Val Arg Thr Ser
 245 250 255
 Phe Phe Met Asp Ala Gly Thr Val Trp Asp Thr Asn Trp Gln Asn Thr
 260 265 270
 Thr Glu Thr Arg Leu Ala Gly Val Pro Asp Tyr Ser Asp Pro Ser Asn
 275 280 285
 Ile Arg Met Ser Ala Gly Ile Ala Leu Gln Trp Met Ser Pro Leu Gly
 290 295 300
 Pro Leu Val Phe Ser Tyr Ala Gln Pro Phe Lys Lys Tyr Asp Gly Asp
 305 310 315 320
 Lys Ala Glu Gln Phe Gln Phe Asn Ile Gly Lys Thr Trp
 325 330

<210> 8359

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 8359

Asn Asp Arg Leu Ala Thr Gln Arg Thr Val Pro Leu Gly Cys Gln Trp
 1 5 10 15
 Asp Gly Lys Glu Leu Ile Val Lys Lys Trp Leu Leu Ala Ala Gly Leu
 20 25 30
 Gly Leu Ala Met Ala Thr Ser Ala Gln Ala Ala Asp Lys Ile Ala Ile
 35 40 45
 Val Asn Met Gly Asn Leu Phe Gln Gln Val Ala Gln Lys Thr Gly Val
 50 55 60
 Ser Ala Thr Leu Glu Asn Glu Phe Lys Gly Arg Ala Ser Glu Leu Gln
 65 70 75 80
 Arg Met Glu Gly Asp Leu Gln Ser Lys Met Gln Arg Leu Gln Arg Asp
 85 90 95
 Gly Ser Thr Met Lys Ala Ser Glu Arg Ser Lys Leu Glu Lys Asp Val
 100 105 110
 Met Ser Gln Arg Gln Thr Phe Ser Gln Lys Ala Gln Ala Phe Glu Gln
 115 120 125
 Asp Arg Gln Arg Arg Ser Asn Glu Glu Arg Gly Lys Leu Val Thr Arg
 130 135 140
 Ile Gln Ser Ala Val Lys Ala Val Ala Ala Asp Gln Ser Ile Asp Leu
 145 150 155 160
 Val Val Asp Ser Asn Ala Val Ala Phe Asn Ser Ser Asp Val Lys Asp
 165 170 175
 Ile Thr Ala Asp Val Leu Lys Gln Val Lys
 180 185

<210> 8360

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 8360

Val Met Pro Ser Ile Arg Leu Ala Asp Leu Ala Gln Gln Leu Asp Ala
 1 5 10 15
 Glu Leu His Gly Asp Gly Asp Ile Val Ile Thr Ala Val Ala Ser Met
 20 25 30
 Gln Ser Ala Lys Ala Gly Thr Ile Thr Phe Met Val Ser Pro Lys Tyr

```

      35          40          45
Arg Glu His Leu Ala Gln Cys Gln Ala Ser Ala Val Leu Thr Gln
  50          55          60
Asp Asp Leu Pro Phe Ala Thr Ser Ala Ala Leu Val Val Lys Asn Pro
  65          70          75          80
Tyr Leu Thr Tyr Ala Arg Met Ala Gln Ile Leu Asp Thr Thr Pro Gln
      85          90          95
Pro Ala Gln Asn Ile Ala Ala Ser Ala Ala Ile Asp Pro Thr Ala Gln
      100          105          110
Leu Gly Asn Asn Val Ser Val Gly Ala Asn Ala Val Ile Glu Ser Gly
      115          120          125
Val Val Leu Gly Asp Asn Val Val Ile Gly Pro Gly Cys Phe Val Gly
      130          135          140
Lys Asn Thr Lys Ile Gly Ala Gly Thr Arg Leu Trp Ala Asn Val Ser
      145          150          155          160
Val Tyr His Glu Val Glu Val Gly Glu Asn Cys Leu Val Gln Ser Ser
      165          170          175
Thr Val Ile Gly Ser Asp Gly Phe Gly Tyr Ala Asn Asp Arg Gly Asn
      180          185          190
Trp Val Lys Ile Pro Gln Leu Gly Arg Val Ile Ile Gly Asp Arg Val
      195          200          205
Glu Ile Gly Ala Cys Thr Thr Ile Asp Arg Gly Ala Leu Asp Asp Thr
      210          215          220
Ile Ile Gly Asn Gly Val Ile Ile Asp Asn Gln Cys Gln Ile Ala His
      225          230          235          240
Asn Val Val Ile Gly Asp Asn Thr Ala Val Ala Gly Gly Val Ile Met
      245          250          255
Ala Gly Ser Leu Lys Ile Gly Arg Tyr Cys Met Ile Gly Gly Ala Ser
      260          265          270
Val Ile Asn Gly His Met Glu Ile Cys Asp Lys Val Thr Val Thr Gly
      275          280          285
Met Gly Met Val Met Arg Pro Ile Thr Glu Pro Gly Val Tyr Ser Ser
      290          295          300
Gly Ile Pro Leu Gln Pro Asn Lys Val Trp Arg Lys Thr Ala Ala Leu
      305          310          315          320
Val Met Asn Ile Asp Asp Met Ser Lys Arg Leu Lys Ala Ile Glu Arg
      325          330          335
Lys Ile Asp Gln Gln Asp
      340

```

<210> 8361

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 8361

```

Ala Gly Gly Arg Cys Gly Ala Gly Val Ser Thr Met Met Glu Phe Ile
  1          5          10          15
Tyr Pro His Thr His Leu Val Ala Gly Val Asp Glu Val Gly Arg Gly
      20          25          30
Pro Leu Val Gly Ala Val Val Thr Ala Ala Val Ile Leu Asp Pro Ala
      35          40          45
Arg Pro Ile Val Gly Leu Asn Asp Ser Lys Lys Leu Ser Glu Lys Arg
      50          55          60
Arg Leu Ala Leu Phe Asp Glu Ile Lys Glu Lys Ala Leu Ala Trp Ser
      65          70          75          80
Leu Gly Arg Ala Glu Pro His Glu Ile Asp Asp Leu Asn Ile Leu His
      85          90          95
Ala Thr Met Leu Ala Met Gln Arg Ala Val Ala Gly Leu Lys Ile Val
      100          105          110
Pro Glu Tyr Val Leu Phe Asp Gly Asn Arg Cys Pro Ala Leu Pro Met

```

115 120 125
 Pro Ser Met Ala Val Val Lys Gly Asp Ser Arg Val Ala Glu Ile Ser
 130 135 140
 Ala Ala Ser Ile Ile Ala Lys Val Thr Arg Asp Ala Glu Met Ala Ala
 145 150 155 160
 Leu Asp Leu Thr Tyr Pro Ala Tyr Gly Phe Ala Gln His Lys Gly Tyr
 165 170 175
 Pro Thr Ala Phe His Leu Glu Lys Leu Ala Glu His Gly Ala Thr Glu
 180 185 190
 His His Arg Arg Ser Phe Gly Pro Val Lys Arg Ala Leu Gly Leu Val
 195 200 205
 Ser
 210

<210> 8362

<211> 712

<212> PRT

<213> *Enterobacter cloacae*

<400> 8362

Thr Met Asn Ile Ile Ala Ile Met Gly Pro His Gly Val Phe Tyr Lys
 1 5 10 15
 Asp Glu Pro Ile Lys Glu Leu Glu Gln Ala Leu Lys Ala Arg Gly Tyr
 20 25 30
 Gln Leu Ile Trp Pro Gln Asn Ser Ala Asp Leu Leu Lys Phe Ile Glu
 35 40 45
 His Asn Pro Arg Ile Cys Gly Val Ile Phe Asp Trp Asp Glu Tyr Asp
 50 55 60
 Met Glu Leu Cys Ser Asp Ile Asn Lys Leu Asn Glu Tyr Leu Pro Leu
 65 70 75 80
 Tyr Ala Phe Ile Asn Thr His Ser Thr Met Asp Val Ser Ala His Asp
 85 90 95
 Met Arg Met Ala Leu Trp Phe Phe Glu Tyr Ser Leu Gly Val Ala Glu
 100 105 110
 Asp Ile Ala Thr Arg Ile Gln Gln Tyr Thr Gly Glu Tyr Leu Asp Asn
 115 120 125
 Ile Thr Pro Pro Phe Thr Arg Ala Leu Phe Thr Tyr Val Lys Glu Gly
 130 135 140
 Lys Tyr Thr Phe Cys Thr Pro Gly His Met Ala Gly Thr Ala Tyr Gln
 145 150 155 160
 Lys Ser Pro Val Gly Cys Leu Phe Tyr Asp Phe Phe Gly Gly Asn Thr
 165 170 175
 Leu Lys Ala Asp Val Ser Ile Ser Val Thr Glu Leu Gly Ser Leu Leu
 180 185 190
 Asp His Thr Gly Pro His Leu Glu Ala Glu Glu Tyr Ile Ala Arg Thr
 195 200 205
 Phe Gly Ala Glu Gln Ser Tyr Met Val Thr Asn Gly Thr Ser Thr Ser
 210 215 220
 Asn Lys Ile Val Gly Met Tyr Ala Ala Pro Ala Gly Ser Thr Leu Leu
 225 230 235 240
 Ile Asp Arg Asn Cys His Lys Ser Leu Ala His Leu Leu Met Met Ser
 245 250 255
 Asp Val Val Pro Leu Trp Leu Ser Pro Thr Arg Asn Ala Leu Gly Ile
 260 265 270
 Leu Gly Gly Ile Pro Arg Arg Glu Phe Ala His Glu Ala Ile Glu Asn
 275 280 285
 Lys Ile Ala Ala Ile Pro Glu Ala Ser Trp Pro Val His Ala Val Ile
 290 295 300
 Thr Asn Ser Thr Tyr Asp Gly Leu Leu Tyr Asn Thr Asn Trp Ile Lys
 305 310 315 320
 Gln Thr Leu Asp Val Pro Ser Ile His Phe Asp Ser Ala Trp Val Pro

Tyr Thr Asn Phe 325 330 335
 340 His Pro Ile Tyr Ser Gly Lys Ser Gly Met Ser Gly
 Glu Arg Val Pro Gly Lys Val Phe 345 Phe Glu Thr Gln Ser Thr His Lys
 355 360 365
 Met Leu Ala Ala Phe Ser Gln Ala Ser Leu Ile His Ile Lys Gly Glu
 370 375 380
 Tyr Asp Glu Asp Thr Phe Asn Glu Ala Phe Met Met His Thr Thr Thr
 385 390 395 400
 Ser Pro Ser Tyr Pro Leu Val Ala Ser Ile Glu Thr Ala Ala Ala Met
 405 410 415
 Leu Arg Gly Asn Pro Gly Lys Arg Leu Ile Asn Arg Ser Val Glu Arg
 420 425 430
 Ala Leu His Phe Arg Lys Glu Val Gln Arg Leu Lys Asp Glu Ala Asp
 435 440 445
 Gly Trp Phe Phe Asp Ile Trp Gln Pro Glu Glu Ile Asp Glu Ala Glu
 450 455 460
 Cys Trp Pro Val Ala Pro Gly Glu Ser Trp His Gly Phe Arg Asp Ala
 465 470 475 480
 Asp Ala Asp His Met Phe Leu Asp Pro Val Lys Val Thr Ile Leu Thr
 485 490 495
 Pro Gly Met Asp Glu Gln Gly Val Met Gly Glu Glu Gly Ile Pro Ala
 500 505 510
 Ala Leu Val Ala Lys Phe Leu Asp Glu Arg Gly Val Val Val Glu Lys
 515 520 525
 Thr Gly Pro Tyr Asn Leu Leu Phe Leu Phe Ser Ile Gly Ile Asp Lys
 530 535 540
 Thr Arg Ala Met Gly Leu Leu Arg Gly Leu Met Glu Phe Lys Arg Ala
 545 550 555 560
 Tyr Asp Leu Asn Leu Arg Val Lys Asn Met Leu Pro Asp Leu Tyr Ala
 565 570 575
 Glu Asp Pro Asp Phe Tyr Arg Asn Met Arg Ile Gln Asp Leu Ala Gln
 580 585 590
 Gly Ile His Arg Leu Ile Arg Gln His Asp Leu Pro Arg Leu Met Leu
 595 600 605
 Gln Ala Phe Asp Val Leu Pro Glu Met Lys Leu Thr Pro His Arg Ala
 610 615 620
 Trp Gln Arg Gln Val Lys Gly Glu Val Glu Thr Val Glu Leu Glu Asn
 625 630 635 640
 Leu Val Gly Arg Val Ser Ala Asn Met Ile Leu Pro Tyr Pro Pro Gly
 645 650 655
 Val Pro Leu Leu Met Pro Gly Glu Met Ile Thr Glu Glu Ser Arg Ala
 660 665 670
 Val Leu Asp Phe Leu Leu Met Leu Cys Ser Val Gly Arg His Tyr Pro
 675 680 685
 Gly Phe Glu Thr Asp Ile His Gly Ala Lys Arg Asp Asp Asn Gly Val
 690 695 700
 Tyr Trp Val Arg Val Leu Lys
 705 710

<210> 8363

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 8363

Lys Gly Glu Thr Met Leu Gly Leu Lys Ala Val His His Ile Ala Ile
 1 5 10 15
 Ile Ala Thr Asp Tyr Ala Lys Ser Lys Ala Phe Tyr Cys Asp Val Leu
 20 25 30
 Gly Phe Thr Leu Leu Ser Glu Ala Tyr Arg Glu Glu Arg Asp Ser Trp

35 40 45
 Lys Gly Asp Leu Ala Leu Asn Gly Gln Tyr Val Ile Glu Leu Phe Ser
 50 55 60
 Phe Pro Phe Pro Pro Ala Arg Pro Ser Arg Pro Glu Ala Cys Gly Leu
 65 70 75 80
 Arg His Leu Ala Phe Ser Val Asp Asp Leu Asp Ser Ala Val Lys His
 85 90 95
 Leu Glu Ala His Gly Val Ala Cys Glu Ala Ile Arg Val Asp Pro Phe
 100 105 110
 Thr Asp Lys Arg Phe Thr Phe Phe Asn Asp Pro Asp Gly Leu Pro Leu
 115 120 125
 Glu Leu Tyr Gln Gln
 130

<210> 8364

<211> 400

<212> PRT

<213> *Enterobacter cloacae*

<400> 8364

Leu Asn Phe Pro Met Leu Glu Leu Cys Ser Arg Glu Gly Phe Met Ala
 1 5 10 15
 Gly Trp His Leu Asp Thr Lys Met Ala Gln Asp Ile Val Ala Arg Thr
 20 25 30
 Met Arg Ile Ile Asp Thr Asn Ile Asn Val Met Asp Ala Arg Gly Arg
 35 40 45
 Ile Ile Gly Ser Gly Asp Arg Glu Arg Ile Gly Glu Leu His Glu Gly
 50 55 60
 Ala Leu Leu Val Leu Ser Gln Gly Arg Val Val Asp Ile Asp Asp Ala
 65 70 75 80
 Val Ala Lys His Leu His Gly Val Arg Gln Gly Ile Asn Leu Pro Leu
 85 90 95
 Arg Leu Glu Gly Glu Ile Val Gly Val Ile Gly Leu Thr Gly Asp Pro
 100 105 110
 Glu Ser Leu Arg Lys Tyr Gly Glu Leu Val Cys Met Thr Ala Glu Met
 115 120 125
 Met Leu Glu Gln Ser Arg Leu Met His Leu Leu Ala Gln Asp Ser Arg
 130 135 140
 Leu Arg Glu Glu Leu Val Met Asn Leu Ile Gln Ala Glu Glu His Thr
 145 150 155 160
 Pro Ala Leu Ser Glu Trp Ala Gln Arg Leu Gly Ile Asp Leu Asn Gln
 165 170 175
 Pro Arg Val Val Ala Val Ile Glu Val Asp Ser Gly Gln Leu Gly Val
 180 185 190
 Asp Ser Ala Met Val Glu Leu Gln Gln Leu Gln Asn Met Leu Ala Thr
 195 200 205
 Pro Glu Arg Asn Asn Leu Val Ala Ile Val Ser Leu Thr Glu Met Val
 210 215 220
 Val Leu Lys Pro Ala Leu Asn Gln Phe Gly Arg Trp Asp Ala Glu Asp
 225 230 235 240
 His Arg Arg Arg Val Glu Leu Leu Ile Glu Arg Met Lys Glu Asn Gly
 245 250 255
 Gln Leu Arg Phe Arg Val Ala Leu Gly Asn Tyr Phe Thr Gly Pro Gly
 260 265 270
 Ser Ile Ala Arg Ser Trp Arg Thr Ala Arg Thr Thr Met Met Val Gly
 275 280 285
 Lys Gln Arg Met Pro Glu Ser Arg Ser Tyr Phe Tyr Gln Asp Leu Met
 290 295 300
 Leu Pro Val Leu Leu Asp Ser Leu Arg Gly Gly Trp Gln Ala Asn Glu
 305 310 315 320
 Leu Ala Arg Pro Leu Met Arg Leu Lys Ala Met Asp Asn Asn Gly Leu

				325					330					335		
Leu	Arg	Arg	Thr	Leu	Gln	Ala	Trp	Phe	Arg	His	Asn	Val	Gln	Pro	Leu	
				340				345					350			
Ala	Thr	Ser	Lys	Ala	Leu	Phe	Ile	His	Arg	Asn	Thr	Leu	Glu	Tyr	Arg	
		355					360					365				
Leu	Asn	Arg	Ile	Ser	Glu	Leu	Thr	Gly	Leu	Asp	Leu	Gly	Asn	Phe	Asp	
		370				375					380					
Asp	Arg	Leu	Leu	Leu	Tyr	Val	Ala	Leu	Gln	Leu	Asp	Glu	Gln	Arg		
385					390					395						400

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<210> 8365
<211> 424
<212> PRT
<213> Enterobacter cloacae
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[illegible]

355 360 365
 Ala Phe Leu Asn Gln Gln Ile Arg Phe Thr Asp Ile Ala Ala Leu Asn
 370 375 380
 Leu Ser Val Leu Glu Met Met Asp Leu Arg Glu Pro Gln Ser Val Glu
 385 390 395 400
 Glu Val Leu Ala Val Asp Glu Gln Ala Arg Ile Val Ala Arg Lys Gln
 405 410 415
 Val Thr Arg Leu Ala Ser Trp
 420

<210> 8366

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 8366

Thr Phe Asn Pro Trp Ser Asp Ser Leu Met Val Asp Ser Arg Pro Leu
 1 5 10 15
 Thr Ile Ala Leu Val Ala Gly Glu Thr Ser Gly Asp Ile Leu Gly Ala
 20 25 30
 Gly Leu Ile Arg Ala Leu Lys Ala Arg Val Pro Asn Ala Arg Phe Val
 35 40 45
 Gly Val Ala Gly Pro Leu Met Gln Ala Glu Gly Cys Glu Ala Trp Tyr
 50 55 60
 Glu Met Glu Glu Leu Ala Val Met Gly Ile Val Glu Val Leu Gly Arg
 65 70 75 80
 Leu Arg Arg Leu Leu His Ile Arg Ala Asp Leu Thr Arg Arg Phe Thr
 85 90 95
 Asp Leu Lys Pro Asp Val Phe Val Gly Ile Asp Ala Pro Asp Phe Asn
 100 105 110
 Ile Thr Leu Glu Gly Asn Leu Lys Lys Gln Gly Ile Lys Thr Ile His
 115 120 125
 Tyr Val Ser Pro Ser Val Trp Ala Trp Arg Gln Lys Arg Val Phe Lys
 130 135 140
 Ile Gly Arg Ser Thr Asn Leu Val Leu Ala Phe Leu Pro Phe Glu Lys
 145 150 155 160
 Ala Phe Tyr Asp Arg Phe Asn Val Pro Cys Arg Phe Ile Gly His Thr
 165 170 175
 Met Ala Asp Ala Met Pro Leu Asp Pro Asp Lys Asn Ala Ala Arg Asp
 180 185 190
 Glu Leu Gly Ile Pro His Asp Val His Cys Leu Ala Leu Leu Pro Gly
 195 200 205
 Ser Arg Gly Ala Glu Val Glu Met Leu Ser Ala Asp Phe Leu Lys Thr
 210 215 220
 Ala Gln Ile Leu Arg Lys Thr Tyr Pro Asp Leu Glu Val Val Val Pro
 225 230 235
 Leu Val Asn Ala Lys Arg Arg Glu Gln Phe Glu Arg Ile Lys Ala Asp
 245 250 255
 Val Ala Pro Asp Leu His Val Arg Leu Leu Asp Gly Lys Gly Arg Gln
 260 265 270
 Ala Met Phe Ala Ser Asp Ala Ala Leu Leu Ala Ser Gly Thr Ala Ala
 275 280 285
 Leu Glu Cys Met Leu Ala Lys Cys Pro Met Val Val Gly Tyr Arg Met
 290 295 300
 Lys Pro Phe Thr Phe Trp Leu Ala Lys Arg Leu Val Lys Thr Asp Tyr
 305 310 315 320
 Val Ser Leu Pro Asn Leu Leu Ala Gly Arg Glu Leu Val Lys Glu Leu
 325 330 335
 Leu Gln Asp Glu Cys Gln Pro Gln Ala Leu Ala Asp Ala Leu Leu Pro
 340 345 350
 Leu Leu Ala Asn Gly Lys Thr Ser His Gln Met His Asp Thr Phe Arg

355 360 365
 Glu Leu His Gln Leu Ile Arg Cys Asn Ala Asp Glu Gln Ala Ala Asp
 370 375 380
 Ala Val Leu Glu Leu Ala Gln
 385 390

<210> 8367
 <211> 359
 <212> PRT
 <213> Enterobacter cloacae

<400> 8367
 Phe Pro Met Thr Leu Pro Ala Ile Ala His Ala Val Ser Pro Tyr Arg
 1 5 10 15
 Gln Leu Leu Val Gly Phe Ser Gly Gly Leu Asp Ser Thr Val Leu Leu
 20 25 30
 His Arg Leu Lys Leu Trp Arg Asp Arg Glu Pro Asp Val Gln Leu Arg
 35 40 45
 Ala Met His Ile His His Gly Leu Ser Pro His Ala Asp Asp Trp Val
 50 55 60
 Ala His Cys Glu Ala Val Cys Ser Gly Trp Glu Ile Pro Leu Ile Val
 65 70 75 80
 Glu Arg Val Thr Leu Glu Asp Glu Gly Leu Gly Ile Glu Ala Gln Ala
 85 90 95
 Arg Lys Ala Arg Tyr Ala Ala Phe Ser Gly Ala Leu Gln Pro Gly Glu
 100 105 110
 Ala Leu Val Thr Ala Gln His Leu Asp Asp Gln Cys Glu Thr Phe Leu
 115 120 125
 Leu Ala Leu Lys Arg Gly Ser Gly Pro Ala Gly Leu Ser Ala Met Pro
 130 135 140
 Glu Arg Ala Asp Phe Ala Glu Thr Glu Leu Ile Arg Pro Leu Leu Gly
 145 150 155 160
 Glu Thr Arg Ala Ser Leu Glu Ala Trp Ala Gln Gln His His Leu Cys
 165 170 175
 Trp Ile Glu Asp Asp Ser Asn Gln Asp Asp Ser Tyr Asp Arg Asn Phe
 180 185 190
 Leu Arg Leu Arg Val Leu Pro Leu Leu Ser Glu Arg Trp Ala His Phe
 195 200 205
 Ser Glu Ala Ala Ala Arg Ser Ala Met Leu Cys Ala Glu Gln Glu Ser
 210 215 220
 Leu Leu Asp Glu Leu Leu Ser Gly Glu Leu Asn Thr Leu Ile Thr Ala
 225 230 235 240
 Asp Gly Ala Leu Asn Val Ala Pro Leu Lys Val Met Ser Pro Val Arg
 245 250 255
 Arg Ala Ala Leu Ile Arg Arg Trp Leu Ala Tyr His Arg Ala Val Met
 260 265 270
 Pro Ser Arg Ala Met Leu Asn Arg Ile Trp Glu Glu Val Ala Gln Ala
 275 280 285
 Arg Glu Asp Ala Ala Pro Cys Ile His Leu Asn Gly Tyr Asp Val Arg
 290 295 300
 Arg Tyr Lys Gly Gln Leu Trp Trp Val Lys Ser Val Pro Ser Leu Ala
 305 310 315 320
 Asp Val Val Leu Asp Trp Pro Ser Pro Glu Lys Ala Leu Thr Leu Pro
 325 330 335
 Met Asn Ala Gly Val Val Ala Leu Ser His Ser Phe Phe Thr His Arg
 340 345 350
 Gly Trp Gln His Arg Ala
 355

<210> 8368
 <211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 8368

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Lys Arg Pro Ile Thr Ile Leu Gly Arg Gln Asn Ser Leu Gly His Pro
1      5      10
Arg Ile Gly Leu Thr Val Ala Lys Lys Asn Val Lys Arg Ala His Glu
20      25      30
Arg Asn Arg Ile Lys Arg Leu Thr Arg Glu Ser Phe Arg Val Arg Gln
35      40      45
His Glu Leu Pro Ser Met Asp Phe Val Val Val Ala Lys Lys Gly Val
50      55      60
Ala Asp Leu Asp Asn Arg Ala Leu Ser Glu Ala Leu Glu Lys Leu Trp
65      70      75      80
Arg Arg His Cys Arg Leu Ala Arg Gly Ser
85      90

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<210> 8369

<211> 379

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(126)

<220>

<221>UNSURE

<222>(168)

<400> 8369

```

Val Cys Gly Glu Thr Trp Ala Thr Ala Tyr Arg Thr Pro Val Arg Asn
1      5      10      15
Arg Trp Glu Ile Ser Thr Phe Gly Gln Leu Lys Gln Ser Ile Asn Leu
20      25      30
Pro Ser His Arg Asp Thr Gly Ser Ser Asn Phe Ala Leu His Thr Phe
35      40      45
Arg Gly Ala Ala Tyr Ser Thr Pro Asp Thr Lys Tyr Glu Lys Tyr Lys
50      55      60
Phe Asp Thr Ile Ala Asp Asn Glu Asn Leu Asn Val Ser Ser Lys Gly
65      70      75      80
Gly Trp Val Ala Met Leu Gln Gln Tyr Phe Ala Thr Ala Trp Val Pro
85      90      95
Asn Asn Asp Gly Thr Asn Tyr Phe Tyr Thr Ala Asn Leu Gly Asn Gly
100      105      110
Ile Ala Ala Ile Gly Tyr Lys Ser Gln Pro Val Leu Val Xaa Pro Gly
115      120      125
Gln Thr Gly Lys Leu Ala Ser Thr Leu Trp Val Gly Pro Glu Ile Gln
130      135      140
Asp Lys Met Ala Ala Val Ala Pro His Leu Asp Leu Thr Val Asp Tyr
145      150      155      160
Gly Trp Leu Trp Phe Ile Ser Xaa Pro Leu Phe Lys Leu Leu Lys Phe
165      170      175
Ile His Ser Phe Leu Gly Asn Trp Gly Phe Ser Ile Ile Val Ile Thr
180      185      190
Phe Ile Val Arg Gly Ile Met Tyr Pro Leu Thr Lys Ala Gln Tyr Thr
195      200      205
Ser Met Ala Lys Met Arg Met Leu Gln Pro Lys Ile Gln Ala Met Arg
210      215      220
Glu Arg Leu Gly Asp Asp Lys Gln Arg Gln Ser Gln Glu Met Met Ala
225      230      235      240

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Leu Tyr Lys Ala Glu Lys Val Asn Pro Leu Gly Gly Cys Phe Pro Leu
 245 250 255
 Leu Ile Gln Met Pro Ile Phe Leu Ala Leu Tyr Tyr Met Leu Met Gly
 260 265 270
 Ser Val Glu Leu Arg His Ala Pro Phe Ala Leu Trp Ile His Asp Leu
 275 280 285
 Ser Ala Gln Asp Pro Tyr Tyr Ile Leu Pro Ile Leu Met Gly Val Thr
 290 295 300
 Met Phe Phe Ile Gln Lys Met Ser Pro Thr Thr Val Thr Asp Pro Met
 305 310 315 320
 Gln Gln Lys Ile Met Thr Phe Met Pro Val Ile Phe Thr Val Phe Phe
 325 330 335
 Leu Trp Phe Pro Ser Gly Leu Val Leu Tyr Tyr Ile Val Ser Asn Leu
 340 345 350
 Val Thr Ile Ile Gln Gln Gln Leu Ile Tyr Arg Gly Leu Glu Lys Arg
 355 360 365
 Gly Leu His Ser Arg Glu Lys Lys Ser
 370 375

<210> 8370

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 8370

Thr Arg Ala Thr Met Ser His Asn Asp Thr Ile Val Ala Gln Ala Thr
 1 5 10 15
 Pro Pro Gly Arg Gly Gly Val Gly Ile Leu Arg Ile Ser Gly Leu Lys
 20 25 30
 Ala Arg Glu Val Ala Glu Ala Val Leu Gly Lys Leu Pro Lys Pro Arg
 35 40 45
 Tyr Ala Asp Tyr Leu Pro Phe Lys Asp Ala Asp Gly Thr Pro Leu Asp
 50 55 60
 Gln Gly Ile Ala Leu Trp Phe Pro Gly Pro Asn Ser Phe Thr Gly Glu
 65 70 75 80
 Asp Val Leu Glu Leu Gln Gly His Gly Gly Pro Val Ile Leu Asp Leu
 85 90 95
 Leu Leu Lys Arg Ile Leu Thr Leu Pro Gly Leu Arg Ile Ala Lys Pro
 100 105 110
 Gly Glu Phe Ser Glu Arg Ala Phe Leu Asn Asp Lys Leu Asp Leu Ala
 115 120 125
 Gln Ala Glu Ala Ile Ala Asp Leu Ile Asp Ala Ser Ser Glu Gln Ala
 130 135 140
 Ala Arg Ser Ala Leu Asn Ser Leu Gln Gly Ala Phe Ser Ala Arg Val
 145 150 155 160
 Asn His Leu Val Glu Ala Leu Thr His Leu Arg Ile Tyr Val Glu Ala
 165 170 175
 Ala Ile Asp Phe Pro Asp Glu Glu Ile Asp Phe Leu Ser Asp Gly Lys
 180 185 190
 Ile Glu Ala Gln Leu Asn Gln Val Met Asn Asp Leu Asp Ala Val Arg
 195 200 205
 Ala Glu Ala Arg Gln Gly Ser Leu Leu Arg Glu Gly Met Lys Val Val
 210 215 220
 Ile Ala Gly Arg Pro Asn Ala Gly Lys Ser Ser Leu Leu Asn Ala Leu
 225 230 235 240
 Ala Gly Arg Glu Ala Ala Ile Val Thr Asp Ile Ala Gly Thr Thr Arg
 245 250 255
 Asp Val Leu Arg Glu His Ile His Ile Asp Gly Met Pro Leu His Ile
 260 265 270
 Ile Asp Thr Ala Gly Leu Arg Asp Ala Ser Asp Glu Val Glu Arg Ile
 275 280 285

Gly Ile Glu Arg Ala Trp Gln Glu Ile Glu Gln Ala Asp Arg Val Leu
 290 295 300
 Phe Met Val Asp Gly Thr Thr Thr Asp Ala Val Asp Pro Ala Glu Ile
 305 310 315 320
 Trp Pro Asp Phe Ile Ala Arg Leu Pro Ala Lys Leu Pro Ile Thr Val
 325 330 335
 Val Arg Asn Lys Ala Asp Val Thr Gly Glu Thr Leu Gly Ile Ser Asp
 340 345 350
 Val Asn Gly His Ser Leu Ile Arg Leu Ser Ala Arg Thr Gly Glu Gly
 355 360 365
 Val Glu Ala Leu Arg Ser His Leu Lys Gln Ser Met Gly Phe Asp Thr
 370 375 380
 Ser Met Glu Gly Gly Phe Leu Ala Arg Arg His Leu Gln Ala Leu
 385 390 395 400
 Glu Glu Ala Ala Arg His Leu Glu Gln Gly Lys Ala Gln Leu Ile Gly
 405 410 415
 Ala Trp Ala Gly Glu Leu Leu Ala Glu Glu Leu Arg Leu Ala Gln Gln
 420 425 430
 Asn Leu Ser Ser Glu Ile Thr Gly Glu Phe Thr Ser Asp Asp Leu Leu Gly
 435 440 445
 Arg Ile Phe Ser Ser Phe Cys Ile Gly Lys
 450 455

<210> 8371

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 8371

Phe Pro Leu Ile Gln Gly Asp Phe His Gln Gly Asn His His Cys Pro
 1 5 10 15
 Asn Gly Asn Ser Pro Asn Pro Leu Ser Pro Pro Ile Leu His Ala Cys
 20 25 30
 Ile Tyr Gly Gly Phe Met Ala Arg Phe Leu Phe Cys Ser Phe Ala Leu
 35 40 45
 Val Leu Leu Tyr Pro Ser Gly Ile Asp Met Tyr Leu Val Gly Leu Pro
 50 55 60
 His Ile Ala Arg Asp Leu Gly Ala Ser Glu Ala Gln Leu His Ile Ala
 65 70 75 80
 Phe Ser Ala Tyr Leu Ala Gly Met Ala Ser Ser Met Val Phe Ala Gly
 85 90 95
 Lys Ile Ala Asp Lys Ala Gly Arg Gln Pro Val Ala Ile Thr Gly Ala
 100 105 110
 Val Ile Phe Ala Leu Ala Ser Val Leu Cys Ser Val Ala Gln Glu Ser
 115 120 125
 Thr Met Phe Leu Ser Gly Arg Phe Ile Gln Gly Ile Gly Ala Gly Gly
 130 135 140
 Cys Tyr Val Val Ala Phe Ala Ile Leu Arg Asp Thr Leu Ser Ala Gln
 145 150 155 160
 Arg Arg Ala Lys Val Leu Ser Met Leu Asn Gly Ile Thr Cys Ile Ile
 165 170 175
 Pro Val Leu Ala Pro Val Val Gly Tyr Leu Ile Met Leu Lys Phe Pro
 180 185 190
 Trp Gln Ser Leu Phe Trp Thr Met Ala Ala Met Gly Ala Ile Val Phe
 195 200 205
 Ile Leu Ser Val Thr Val Leu Lys Glu Thr His Pro Gly Ser Gln Gln
 210 215 220
 Pro Tyr His Thr Ala Thr Leu His Pro Ala Glu Lys Leu Val Asn Arg
 225 230 235 240
 Phe Phe Leu Ser Arg Leu Ala Ile Thr Thr Leu Ser Val Ala Val Ile
 245 250 255

Leu Thr Tyr Val Asn Val Ser Pro Val Leu Leu Met Glu Thr Met Gly
 260 265 270
 Phe Asp Arg Gly Glu Tyr Ser Thr Val Met Ala Leu Thr Ala Met Val
 275 280 285
 Ser Met Ala Val Ser Phe Ser Thr Pro Phe Ala Leu Asn Ile Phe Arg
 290 295 300
 Gln Arg Thr Leu Met Leu Thr Ser Gln Thr Leu Phe Leu Ala Ala Gly
 305 310 315 320
 Val Ile Leu Ala Thr Ala Thr Ser His Ala Val Met Leu Val Gly Ile
 325 330 335
 Thr Leu Ile Cys Ala Gly Phe Ser Val Gly Phe Gly Val Ala Met Ser
 340 345 350
 Gln Ala Leu Gly Pro Phe Ser Leu Arg Ala Gly Val Ala Ser Ser Val
 355 360 365
 Leu Gly Ile Ala Gln Val Cys Gly Ser Ser Leu Trp Ile Trp Leu Ala
 370 375 380
 Ala Val Ile Gly Leu Asn Ala Leu Asn Met Leu Ile Gly Val Leu Ile
 385 390 395 400
 Gly Cys Ser Ile Leu Cys Ile Thr Leu Leu Met Val Ile Gln Pro Ala
 405 410 415
 Ala His Tyr Glu Glu Ala His Gln Gln Ser Arg Ser
 420 425

<210> 8372

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 8372

Pro Thr Thr Thr Ile Ile Lys Glu Arg Lys Met Ala Thr His Phe Ala
 1 5 10 15
 Arg Gly Thr Leu Thr Glu Gly His Leu Val Ser Ala Arg Leu Ser Ser
 20 25 30
 Ala Cys His Ser Glu Ala Leu Lys Leu Pro Glu His Arg Arg Thr Arg
 35 40 45
 Phe Leu Ala Ser Arg Ala Leu Leu Ala Glu Leu Leu Phe Met Leu Tyr
 50 55 60
 Gly Thr Ser Glu Leu Pro Asp Ile Leu Thr Gln Pro Glu Gly Arg Pro
 65 70 75 80
 Val Phe Ala Asp Pro Ala Leu Pro His Phe Ser Ile Ala Tyr Thr Gly
 85 90 95
 Asn Ile Val Gly Val Ala Leu Thr Thr Glu Gly Asp Cys Gly Leu Asp
 100 105 110
 Met Glu Leu Gln Arg Val Thr Arg Ser Phe His Gly Ala Asn Ala Leu
 115 120 125
 Asp Glu Tyr Pro Leu Ser Ser Asn Glu Lys Leu Trp Ile Arg Asn Gln
 130 135 140
 Asn Asp Pro Val Glu Ala Arg Ala Gln Leu Ile Thr Leu Arg Gln Ser
 145 150 155 160
 Ile Arg Lys Leu Asn Gly Ala Ala Ser Asp Asp Ala Ser Leu Leu Gln
 165 170 175
 Leu Leu Pro Gly Ser Gly Arg Leu Arg Ala Thr Lys Ala Ser Leu Val
 180 185 190
 Glu Ala Leu Ser Asp Ala Glu Asp Val Leu Ile Trp Ser Val Ala Val
 195 200 205
 Ser Pro Ala Ile Glu Arg Leu Lys Ile Trp Glu Phe Asp Ser Ile Arg
 210 215 220
 Gly Trp Arg Ser Leu Pro Asp Val Pro Glu Arg Ala Asn Glu Pro Ala
 225 230 235 240
 Ala Arg Leu Met Arg Leu Thr Ser Leu Pro Ala Glu Lys Ala Tyr Thr
 245 250 255

His Ser

<210> 8373

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 8373

```

Ser Val Gln Gly His His Asp Glu Thr Gly Val Ile Met Ser Asp Thr
1      5      10      15
Leu Lys Val Val Thr Leu Leu Gly Ser Leu Arg Lys Gly Ser Phe Asn
20      25      30
Gly Met Val Ala Arg Thr Leu Pro Gln Leu Ala Pro Ala Gly Met Glu
35      40      45
Ile Ser Ala Leu Pro Ser Ile Gly Asp Ile Pro Leu Tyr Asp Ala Asp
50      55      60
Val Gln Gln Glu Glu Gly Phe Pro Gln Ser Val Glu Ala Ile Ala Glu
65      70      75      80
Gln Ile Arg Gln Ala Asp Gly Val Val Ile Val Thr Pro Glu Tyr Asn
85      90      95
Tyr Ser Val Pro Gly Gly Leu Lys Asn Ala Ile Asp Trp Leu Ser Arg
100      105      110
Leu Pro Glu Gln Pro Leu Ser Gly Lys Pro Val Leu Ile Gln Thr Ser
115      120      125
Ser Met Gly Ala Ile Gly Gly Ala Arg Cys Gln Tyr His Leu Arg Gln
130      135      140
Ile Leu Val Phe Leu Asp Ala Met Val Met Asn Lys Pro Glu Phe Met
145      150      155      160
Gly Gly Val Ile Gln Asn Lys Val Asp Pro Gln Thr Gly Glu Val Val
165      170      175
Asp Gln Ser Thr Arg Asp His Leu Ser Gly Gln Leu Thr Ala Phe Gly
180      185      190
Asp Tyr Ile Lys Arg Val Lys Ala
195      200

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<210> 8374

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 8374

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Tyr Gln Arg Thr Leu Thr Met Asp Ser Gln Arg Asn Leu Leu Ile Ile
1      5      10      15
Ala Leu Leu Phe Val Ser Phe Met Ile Trp Gln Ala Trp Glu Gln Asp
20      25      30
Lys Asn Pro Gln Pro Gln Gln Gln Thr Thr Gln Thr Thr Thr Ala
35      40      45
Ala Gly Ser Ala Ala Asp Gln Gly Val Pro Ala Ser Gly Gln Gly Lys
50      55      60
Gln Ile Thr Val Lys Thr Asp Val Leu Glu Leu Thr Ile Asn Thr Arg
65      70      75      80
Gly Gly Asp Val Glu Gln Ala Leu Leu Leu Thr Tyr Pro Lys Glu Leu
85      90      95
Lys Ser Thr Glu Pro Phe Gln Leu Leu Glu Thr Thr Pro Glu Phe Ile
100      105      110
Tyr Gln Ala Gln Ser Gly Leu Thr Gly Arg Asp Gly Pro Asp Asn Pro
115      120      125
Ala Asn Gly Ala Arg Pro Leu Tyr Asn Val Glu Asn Asp Thr Phe Val
130      135      140
Leu Ala Asp Gly Gln Asn Glu Leu Val Ile Pro Met Thr Tyr Thr Asp

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145 150 155 160
 Ala Ala Gly Asn Thr Phe Thr Lys Thr Phe Thr Leu Lys Arg Gly Glu
 165 170 175
 Tyr Ala Val Lys Leu Gly Leu Gln Arg Thr Glu Arg Arg Cys Glu Thr
 180 185 190
 Ala Gly Lys Ser Leu Pro Leu Val Ser
 195 200

<210> 8375

<211> 102

<212> PRT

<213> *Enterobacter cloacae*

<400> 8375

Pro Ala Pro Pro Ala Thr Cys Cys Ala Ser Ile Ser Thr Ser Thr Glu
 1 5 10 15
 Cys Arg Cys Thr Ser Ser Thr Pro Leu Ala Cys Ala Met Arg Ala Met
 20 25 30
 Lys Ser Ser Val Ser Val Ser Asn Ala Pro Gly Arg Arg Ser Ser Arg
 35 40 45
 Pro Thr Ala Cys Cys Leu Trp Trp Thr Ala Pro Gln Pro Thr Pro Leu
 50 55 60
 Thr Arg Leu Lys Ser Gly Gln Thr Leu Ser Pro Val Ser Arg Leu Asn
 65 70 75 80
 Cys Arg Ser Pro Trp Cys Ala Thr Arg Pro Thr Leu Pro Ala Lys Arg
 85 90 95
 Trp Ala Ser Ala Met
 100

<210> 8376

<211> 343

<212> PRT

<213> *Enterobacter cloacae*

<400> 8376

Leu Ala Val Ala Tyr Ser Ala Leu Pro Tyr Leu Trp Ser Ser Ser Pro
 1 5 10 15
 Arg Arg Thr Met Lys Lys Pro Ile Ser Ser Leu Asp Leu Asn Leu Leu
 20 25 30
 Leu Cys Leu Gln Leu Leu Leu Gln Glu Arg Ser Val Thr Lys Ala Ala
 35 40 45
 Lys Arg Met Asn Val Thr Pro Ser Ala Val Ser Lys Ser Leu Ala Lys
 50 55 60
 Leu Arg Asp Trp Phe Asp Asp Pro Leu Phe Val Lys Thr Pro Leu Gly
 65 70 75 80
 Leu Leu Pro Thr Pro Leu Thr Val Ser Leu Glu Gln Asp Leu Ala Asp
 85 90 95
 Trp Met Gln Ile Gly Asn Gln Ile Leu Asp Lys Phe His His Ser Ser
 100 105 110
 Pro Gly Gly Leu Lys Phe Val Leu Ala Ala Glu Thr Pro Leu Met Leu
 115 120 125
 Ile Arg Phe Asn Thr Leu Leu Glu Gln Val Asn Glu Arg Tyr Pro Gln
 130 135 140
 Ala Thr Val Lys Leu Arg Gln Trp Asp Tyr Asp Ser Leu Asp Ala Ile
 145 150 155 160
 Thr Arg Gly Glu Val Asp Leu Gly Phe Thr Gly Arg Glu Thr His Pro
 165 170 175
 Arg Ser Arg Glu Leu Leu Lys Leu Met Pro Trp Phe Ile Asp Tyr Glu
 180 185 190
 Ile Leu Phe Ser Asp Arg Pro Cys Val Tyr Leu Arg Glu Asp His Pro
 195 200 205

Ala Leu Gln Glu Ala Trp Asp Leu Glu Thr Phe Leu Arg Tyr Pro His
 210 215 220
 Ile Ser Ile Phe Trp Glu Arg Ser Asp Thr Trp Ala Leu Asp Glu Val
 225 230 235
 Leu Arg Glu Met Gly Arg Glu Arg Asn Ile Ala Met Ser Leu Pro Gly
 245 250 255
 Phe Glu Gln Ser Met Phe Met Ala Ala Gln Pro Asp His Asn Tyr Ile
 260 265 270
 Ala Thr Ala Pro His Tyr Cys His His Tyr Asn Gln Leu His Gln Arg
 275 280 285
 Asn Leu Val Cys Leu Pro Ile Pro Ile Asp Glu Ala Gln Ala Glu Lys
 290 295 300
 Leu Thr Val Pro Phe Thr Leu Ile Trp His Lys Arg Asn Ser His Asn
 305 310 315 320
 Pro Lys Ile Leu Trp Leu Arg Glu Thr Ile Lys Ala Leu Tyr Thr Ala
 325 330 335
 Pro Asp Gln Val Phe Ala
 340

<210> 8377
 <211> 96
 <212> PRT
 <213> Enterobacter cloacae

<400> 8377
 Pro Cys Ser Leu Gly Ser Val Gly Lys Ile Met Ala Pro Pro Leu Ser
 1 5 10 15
 Pro Gly Ser Arg Val Leu Ile Ala Leu Ile Arg Val Tyr Gln Arg Leu
 20 25 30
 Ile Ser Pro Leu Leu Gly Pro His Cys Arg Phe Thr Pro Thr Cys Ser
 35 40 45
 Ser Tyr Gly Ile Glu Ala Leu Arg Arg Phe Gly Val Ile Lys Gly Ser
 50 55 60
 Trp Leu Thr Val Lys Arg Val Leu Lys Cys His Pro Leu His Pro Gly
 65 70 75 80
 Gly Asp Asp Pro Val Pro Pro Gly Pro Phe Asp Thr Arg Glu His
 85 90 95

<210> 8378
 <211> 247
 <212> PRT
 <213> Enterobacter cloacae

<400> 8378
 Phe Cys Leu Tyr Gly Asn Asp Cys Val Pro Val Asn Cys Arg Thr Lys
 1 5 10 15
 Thr Leu Asn Leu Leu Lys Gly Lys Gly Met Ser Gly Ile Glu Ala Val
 20 25 30
 Phe Phe Asp Cys Asp Gly Thr Leu Val Asp Ser Glu Val Ile Cys Ser
 35 40 45
 Arg Ala Tyr Val Ala Met Phe Gln Glu Phe Gly Ile Thr Leu Asp Leu
 50 55 60
 Glu Glu Val Phe Lys Arg Phe Lys Gly Val Lys Leu Tyr Glu Ile Ile
 65 70 75 80
 Asp Ile Ile Asn Glu Glu His Gly Val Asp Leu Ala Lys Ala Asp Leu
 85 90 95
 Glu Pro Val Tyr Arg Ala Glu Val Ala Arg Leu Phe Asp Ala Glu Leu
 100 105 110
 Glu Val Ile Ala Gly Ala Asn Thr Leu Leu Asp Ala Met Thr Val Pro
 115 120 125
 Ile Cys Val Val Ser Asn Gly Pro Val Ser Lys Met Gln His Ser Leu

130	135	140
Gly Lys Leu Asn Met	Leu His His Phe Pro Glu Lys Leu Phe Ser Gly	
145	150	155
Tyr Asp Ile Gln Arg Trp Lys Pro Asp Pro Ala Leu Met Phe His Ala		160
165	170	175
Ala Lys Ala Met Asn Val Asn Val Glu Asn Cys Ile Leu Val Asp Asp		
180	185	190
Ser Ser Ala Gly Ala Gln Ser Gly Ile Asp Ala Gly Met Glu Val Phe		
195	200	205
Tyr Phe Cys Ala Asp Pro His Asn Lys Pro Ile Asp His Pro Lys Val		
210	215	220
Thr Thr Phe Thr Asp Leu Ala Gln Leu Pro Ala Leu Trp Lys Ala Arg		240
225	230	235
Gly Trp Asp Ile Thr Arg		
245		

<210> 8379

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 8379

Ile Met Glu Ser Phe Met Lys Leu Asn Val Ile Ala Thr Ser Leu Val	
1	5
Leu Ser Ser Val Leu Phe Ser Gly Ala Thr Leu Ala Ala Asp Gly Thr	10
20	25
Val His Phe Arg Gly Glu Val Ile Asp Ser Thr Cys Thr Val Thr Thr	30
35	40
Asp Thr Ser Asn Gln Thr Val Asn Ile Gly Arg Val Ser Val Lys Thr	45
50	55
Phe Ala Gly Ile Asp Ser Thr Ala Ser Val Lys Asp Phe His Ile Arg	60
65	70
Leu Glu Gly Cys Pro Ala Thr Tyr Thr Gln Ala Ala Val Arg Phe Asp	75
85	90
Gly Thr Glu Asp Lys Asp Thr Ile Gly Lys Gly Tyr Leu Ser Ile Gly	95
100	105
Thr Pro Val Asn Glu Asp Gly Thr Asp Gly Glu Phe Thr Gly Ser Gly	110
115	120
Asp Ala Ile Ala Ala Thr Gly Val Ala Ile Lys Leu Phe Asn Leu Ser	125
130	135
Asp Asp Thr Ala Ile Pro Leu Tyr Asn Asn Ser Lys Tyr Val Ala Ile	140
145	150
Ala Asp Gly Lys Ala Asp Met Gly Phe Lys Ala Lys Phe Val Gln Thr	155
165	170
Leu Ala Thr Val Thr Pro Gly Thr Ala Asn Ala Asp Ser Gln Phe Thr	175
180	185
Ile Glu Tyr Leu Lys	190
195	

<210> 8380

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 8380

Phe Met Ala Ala Thr Lys Pro Ala Phe Asn Pro Pro Gly Lys Lys Gly	
1	5
Asp Met Ile Phe Ser Ala Leu Val Lys Leu Ala Ala Leu Ile Val Leu	10
20	25
Leu Leu Leu Gly Gly Ile Ile Val Ser Leu Ile Phe Ser Ser Trp Pro	30
35	40
	45

Ser Ile Gln Lys Phe Gly Phe Ala Phe Leu Trp Thr Lys Glu Trp Asp
 50 55 60
 Ala Pro Asn Asp Ile Tyr Gly Ala Leu Val Pro Ile Tyr Gly Thr Leu
 65 70 75 80
 Val Thr Ser Phe Ile Ala Leu Leu Ile Ala Val Pro Val Ser Phe Gly
 85 90 95
 Ile Ala Leu Phe Leu Thr Glu Leu Ala Pro Gly Trp Leu Arg Arg Pro
 100 105 110
 Leu Gly Ile Ala Ile Glu Leu Leu Ala Ala Ile Pro Ser Ile Val Tyr
 115 120 125
 Gly Met Trp Gly Leu Phe Ile Phe Ala Pro Leu Phe Ala Thr Tyr Phe
 130 135 140
 Gln Glu Pro Val Gly Asn Val Leu Ser Ala Val Pro Phe Val Gly Ala
 145 150 155 160
 Leu Phe Ser Gly Pro Ala Phe Gly Ile Gly Ile Leu Ala Ala Gly Val
 165 170 175
 Ile Leu Ala Ile Met Ile Ile Pro Tyr Ile Ala Ala Val Met Arg Asp
 180 185 190
 Val Phe Glu Gln Thr Pro Val Met Met Lys Glu Ser Ala Tyr Gly Ile
 195 200 205
 Gly Cys Thr Thr Trp Glu Val Ile Trp Arg Ile Val Leu Pro Phe Thr
 210 215 220
 Lys Asn Gly Val Ile Gly Gly Ile Met Leu Gly Leu Gly Arg Ala Leu
 225 230 235 240
 Gly Glu Thr Met Ala Val Thr Phe Ile Ile Gly Asn Thr Tyr Gln Leu
 245 250 255
 Asp Ser Ala Ser Leu Tyr Met Pro Gly Asn Ser Ile Thr Ser Ala Leu
 260 265 270
 Ala Asn Glu Phe Ala Glu Ala Glu Ser Gly Leu His Val Ala Ala Leu
 275 280 285
 Met Glu Leu Gly Leu Ile Leu Phe Val Ile Thr Phe Ile Val Leu Ala
 290 295 300
 Ile Ser Lys Leu Met Ile Met Arg Leu Ala Lys Asn Glu Gly Ala Arg
 305 310 315 320

<210> 8381

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 8381

Val Gln Arg Tyr Gly Cys Ala Val His Pro Ser Gly Glu Glu Thr Asn
 1 5 10 15
 Arg Arg Leu Tyr Tyr Trp Pro Leu Arg Leu Ile Cys Leu Ser Ala Cys
 20 25 30
 Gly Glu Thr Met Asp Asn Leu Asn Leu Asn Lys His Ile Ser Gly Gln
 35 40 45
 Phe Asn Ala Glu Leu Glu Ser Ile Arg Thr Gln Val Met Thr Met Gly
 50 55 60
 Gly Met Val Glu Gln Gln Leu Ser Asp Ala Ile Thr Ala Met His Asn
 65 70 75 80
 Gln Asp Ser Glu Leu Ala Lys Arg Val Ile Glu Gly Asp His Asn Val
 85 90 95
 Asn Met Met Glu Val Ala Ile Asp Glu Ala Cys Val Arg Ile Ile Ala
 100 105 110
 Lys Arg Gln Pro Thr Ala Ser Asp Leu Arg Leu Val Met Ala Ile Ile
 115 120 125
 Lys Thr Ile Ala Glu Leu Glu Arg Ile Gly Asp Val Ala Asp Lys Ile
 130 135 140

Cys Arg Thr Ala Leu Glu Lys Phe Ser Gln Gln His Gln Pro Leu Leu
 145 150 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270
 Val Ser Leu Glu Ser Leu Gly Arg His Thr Val Gln Met Leu His Asp
 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270
 Val Leu Asp Ala Phe Ala Arg Met Asp Leu Asp Glu Ala Val Arg Ile
 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270
 Tyr Arg Glu Asp Lys Lys Val Asp Gln Glu Tyr Glu Gly Ile Val Arg
 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270
 Gln Leu Met Thr Tyr Met Met Glu Asp Ser Arg Thr Ile Pro Ser Val
 210 215 220 225 230 235 240 245 250 255 260 265 270
 Leu Thr Ala Leu Phe Cys Ala Arg Ser Ile Glu Arg Ile Gly Asp Arg
 225 230 235 240 245 250 255 260 265 270
 Cys Gln Asn Ile Cys Glu Tyr Ile Phe Tyr Phe Val Lys Gly Gln Asp
 245 250 255 260 265 270
 Phe Arg His Val Gly Gly Asp Glu Leu Asp Lys Leu Leu Ala Gly Lys
 260 265 270
 Asp Pro Lys Glu
 275

<210> 8382

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 8382

Gly Ala Met Asn Leu Pro Phe Ala Trp Val Lys Thr Ser Met Glu Arg
 1 5 10 15
 Gly Val Phe Ile Leu Ile Leu Phe Tyr Ser Ile Lys Met Lys Gly Val
 20 25 30
 Ser Gly Phe Val Lys Glu Leu Thr Leu Gln Pro Phe Asn His Trp Ala
 35 40 45
 Phe Ile Pro Val Asn Leu Ile Leu Glu Gly Val Ser Leu Leu Ser Lys
 50 55 60
 Pro Val Ser Leu Gly Leu Arg Leu Phe Gly Asn Met Tyr Ala Gly Glu
 65 70 75 80
 Leu Ile Phe Ile Leu Ile Ala Gly Leu Leu Pro Trp Trp Ser Gln Trp
 85 90 95
 Ile Leu Asn Val Pro Trp Ala Ile Phe His Ile Leu Ile Ile Thr Leu
 100 105 110
 Gln Ala Phe Ile Phe Met Val Leu Thr Ile Val Tyr Leu Ser Met Ala
 115 120 125
 Ser Glu Glu His
 130

<210> 8383

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 8383

Thr Val Arg Arg Glu Gly Leu Met Ser Glu Phe Val Thr Val Ala Arg
 1 5 10 15
 Pro Tyr Ala Lys Ala Ala Phe Asp Phe Ala Val Glu His Gln Asn Val
 20 25 30
 Asp Arg Trp Gln Asn Met Leu Ala Phe Ala Ala Glu Val Thr Lys Asn
 35 40 45
 Glu Gln Met Ala Glu Leu Leu Ser Gly Ala Leu Ala Pro Glu Thr Leu
 50 55 60
 Ala Ala Ser Phe Ile Ala Val Cys Gly Glu Gln Leu Asp Ala Asn Gly
 65 70 75 80
 Gln Asn Leu Ile Lys Val Met Ala Glu Asn Gly Arg Leu Arg Val Leu

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      85                      90                      95
Pro Asp Val Leu Glu Gln Phe Glu His Leu Arg Ala Leu Ser Glu Ala
      100                      105                      110
Thr Ala Glu Val Glu Val Thr Ser Ala Thr Glu Leu Ser Asp Glu Gln
      115                      120                      125
Leu Ala Lys Ile Thr Ala Ala Met Glu Lys Arg Leu Ser Arg Lys Val
      130                      135                      140
Lys Leu Asn Cys Lys Ile Asp Lys Ser Val Met Ala Gly Val Ile Ile
      145                      150                      155                      160
Arg Ser Gly Asp Met Val Ile Asp Gly Ser Val Arg Gly Arg Leu Glu
      165                      170                      175
Arg Leu Ala Asp Val Leu Gln Ser
      180                      185

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<210> 8384

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 8384

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Gly Asp Trp Ser Met Gln Leu Asn Ser Thr Glu Ile Ser Glu Leu Ile
1      5      10      15
Lys Gln Arg Ile Ala Gln Phe Asn Val Val Ser Glu Ala His Asn Glu
      20      25      30
Gly Thr Ile Val Ser Val Ser Asp Gly Val Ile Arg Ile His Gly Leu
      35      40      45
Ala Asp Cys Met Gln Gly Glu Met Ile Ser Leu Pro Gly Asn Arg Tyr
      50      55      60
Ala Ile Ala Leu Asn Leu Glu Arg Asp Ser Val Gly Ala Val Val Met
      65      70      75      80
Gly Pro Tyr Ala Asp Leu Ala Glu Gly Met Lys Val Lys Cys Thr Gly
      85      90      95
Arg Ile Leu Glu Val Pro Val Gly Arg Gly Leu Leu Gly Arg Val Val
      100      105      110
Asn Thr Leu Gly Ala Pro Ile Asp Gly Lys Gly Pro Val Glu His Asp
      115      120      125
Gly Phe Ser Pro Ile Glu Val Ile Ala Pro Gly Val Ile Asp Arg Gln
      130      135      140
Ser Val Asp Gln Pro Val Gln Thr Gly Tyr Lys Ser Val Asp Ala Met
      145      150      155      160
Ile Pro Ile Gly Arg Gly Gln Arg Glu Leu Ile Ile Gly Asp Arg Gln
      165      170      175
Thr Gly Lys Thr Ala Met Ala Ile Asp Ala Ile Ile Asn Gln Arg Asp
      180      185      190
Ser Gly Ile Lys Cys Val Tyr Val Ala Ile Gly Gln Lys Ala Ser Thr
      195      200      205
Ile Ser Asn Val Val Arg Lys Leu Glu Glu His Gly Ala Leu Ser Asn
      210      215      220
Thr Ile Val Val Val Ala Thr Ala Ser Glu Ser Ala Ala Leu Gln Tyr
      225      230      235      240
Leu Ala Pro Tyr Ala Gly Cys Ala Met Gly Glu Tyr Phe Arg Asp Arg
      245      250      255
Gly Glu Asp Ala Leu Ile Val Tyr Asp Asp Leu Ser Lys Gln Ala Val
      260      265      270
Ala Tyr Arg Gln Val Ser Leu Leu Leu Arg Arg Pro Pro Gly Arg Glu
      275      280      285
Ala Phe Pro Gly Asp Val Phe Tyr Leu His Ser Arg Leu Leu Glu Arg
      290      295      300
Ala Ser Arg Val Asn Ala Glu Tyr Val Glu Asn Phe Thr Lys Gly Glu
      305      310      315      320
Val Lys Gly Lys Thr Gly Ser Leu Thr Ala Leu Pro Ile Ile Glu Thr

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325 330 335
 Gln Ala Gly Asp Val Ser Ala Phe Val Pro Thr Asn Val Ile Ser Ile
 340 345 350
 Thr Asp Gly Gln Ile Phe Leu Glu Thr Asn Leu Phe Asn Ser Gly Ile
 355 360 365
 Arg Pro Ala Val Asn Pro Gly Ile Ser Val Ser Arg Val Gly Gly Ala
 370 375 380
 Ala Gln Thr Lys Ile Ile Lys Lys Leu Ser Gly Gly Ile Arg Thr Ala
 385 390 395 400
 Leu Ala Gln Tyr Arg Glu Leu Ala Ala Phe Ser Gln Phe Ala Ser Asp
 405 410 415
 Leu Asp Glu Ala Thr Arg Lys Gln Leu Ser His Gly Gln Lys Val Thr
 420 425 430
 Glu Leu Leu Lys Gln Lys Gln Tyr Ala Pro Met Ser Val Ala Gln Gln
 435 440 445
 Gly Leu Val Leu Phe Ala Ala Glu Arg Gly Tyr Leu Glu Asp Val Glu
 450 455 460
 Leu Ala Lys Ile Gly Ser Phe Glu Ala Ala Leu Leu Ala Tyr Val Asp
 465 470 475 480
 Arg Asp His Ala Pro Leu Met Gln Glu Ile Asn Gln Thr Gly Gly Tyr
 485 490 495
 Asn Asp Glu Ile Glu Gly Lys Leu Lys Ala Ile Leu Asp Ser Phe Lys
 500 505 510
 Ala Thr Gln Ser Trp
 515

<210> 8385

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 8385

Ser Ser Gly Gly Leu Ser Gln Asp Lys Pro Ser Gly Ile Glu Glu Lys
 1 5 10 15
 Leu Met Ala Gly Ala Lys Glu Ile Arg Ser Lys Ile Ala Ser Val Gln
 20 25 30
 Asn Thr Gln Lys Ile Thr Lys Ala Met Glu Met Val Ala Ala Ser Lys
 35 40 45
 Met Arg Lys Ser Gln Asp Arg Met Ala Ala Ser Arg Pro Tyr Ala Glu
 50 55 60
 Thr Met Arg Lys Val Ile Gly His Leu Ala Asn Gly Asn Leu Glu Tyr
 65 70 75 80
 Lys His Pro Tyr Leu Glu Glu Arg Asp Val Lys Arg Val Gly Tyr Leu
 85 90 95
 Val Val Ser Thr Asp Arg Gly Leu Cys Gly Gly Leu Asn Ile Asn Leu
 100 105 110
 Phe Lys Lys Leu Leu Ala Asp Met Lys Gly Trp Ser Asp Lys Gly Val
 115 120 125
 Gln Cys Asp Leu Ala Leu Ile Gly Ser Lys Gly Val Ser Phe Phe Asn
 130 135 140
 Ser Val Gly Gly Asn Ile Val Ala Gln Val Thr Gly Met Gly Asp Asn
 145 150 155 160
 Pro Ser Leu Ser Glu Leu Ile Gly Pro Val Lys Val Met Leu Gln Ala
 165 170 175
 Tyr Asp Glu Gly Arg Leu Asp Arg Leu Tyr Val Val Ser Asn Lys Phe
 180 185 190
 Ile Asn Thr Met Ser Gln Val Pro Thr Leu Thr Gln Met Leu Pro Leu
 195 200 205
 Pro Ala Ser Glu Asp Asp Glu Leu Lys Gln Lys Ala Trp Asp Tyr Leu
 210 215 220
 Tyr Glu Pro Asp Pro Lys Pro Leu Leu Asp Thr Leu Leu Arg Arg Tyr

225 230 235 240
 Val Glu Ser Gln Val Tyr Gln Gly Val Val Glu Asn Leu Ala Ser Glu
 245 250 255
 Gln Ala Ala Arg Met Val Ala Met Lys Ala Ala Thr Asp Asn Gly Gly
 260 265 270
 Ser Leu Ile Lys Glu Leu Gln Leu Val Tyr Asn Lys Ala Arg Gln Ala
 275 280 285
 Ser Ile Thr Gln Glu Leu Thr Glu Ile Val Ser Gly Ala Ala Ala Val
 290 295 300

305

<210> 8386

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 8386

Ser Glu Gly Asp Met Ala Met Thr Tyr His Leu Asp Val Val Ser Ala
 1 5 10 15
 Glu Gln Gln Met Phe Ser Gly Leu Val Glu Lys Ile Gln Val Thr Gly
 20 25 30
 Ser Glu Gly Glu Leu Gly Ile Phe Pro Gly His Ala Pro Leu Leu Thr
 35 40 45
 Ala Ile Lys Pro Gly Met Ile Arg Ile Val Lys Gln Phe Gly His Glu
 50 55 60
 Glu Phe Ile Tyr Leu Ser Ser Gly Gly Ile Leu Glu Val Gln Pro Gly Ser
 65 70 75 80
 Val Thr Val Leu Ala Asp Thr Ala Ile Arg Gly Gln Asp Leu Asp Glu
 85 90 95
 Ala Arg Ala Leu Glu Ser Lys Arg Lys Ala Glu Glu His Ile Asn Ser
 100 105 110
 Ser His Gly Asp Val Asp Tyr Ala Gln Ala Ser Ala Glu Leu Ala Lys
 115 120 125
 Ala Ile Ala Lys Leu Arg Val Ile Glu Leu Thr Lys Lys Ala Met
 130 135 140

<210> 8387

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 8387

Asn Phe Lys His Gln Thr Phe Leu Leu Thr Gln Thr Thr Val Arg
 1 5 10 15
 Met Arg Met Leu Asn Ser Ala Met Ser Val Val Ile Leu Ala Ala Gly
 20 25 30
 Lys Gly Thr Arg Met Tyr Ser Asp Leu Pro Lys Val Leu His Thr Leu
 35 40 45
 Ala Gly Lys Pro Met Val Gln His Val Ile Asp Ala Ala Asn Glu Leu
 50 55 60
 Gly Ala Ser Gln Val His Leu Val Tyr Gly His Gly Gly Asp Leu Leu
 65 70 75 80
 Lys Lys Thr Leu Arg Asp Asp Asn Leu Asn Trp Val Leu Gln Ala Glu
 85 90 95
 Gln Leu Gly Thr Gly His Ala Met Gln Gln Ala Ala Pro Phe Phe Ala
 100 105 110
 Asp Asp Glu Asp Ile Leu Met Leu Tyr Gly Asp Val Pro Leu Ile Ser
 115 120 125
 Val Glu Thr Leu Thr Arg Leu Arg Glu Ala Lys Pro Gln Gly Gly Ile
 130 135 140

Gly Leu Leu Thr Val Val Leu Asp Asp Pro Thr Gly Tyr Gly Arg Ile
 145 150 155 160
 Thr Arg Glu Asn Gly Asn Val Thr Gly Ile Val Glu His Lys Asp Ala
 165 170 175
 Thr Asp Glu Gln Arg Gln Ile Gln Glu Ile Asn Thr Gly Ile Leu Ile
 180 185 190
 Ala Asn Gly Ala Asp Met Lys Arg Trp Leu Ser Arg Leu Asn Asn Asn
 195 200 205
 Asn Ala Gln Gly Glu Tyr Tyr Ile Thr Asp Ile Ile Ala Met Ala Tyr
 210 215 220
 Gln Glu Gly Arg Glu Ile Ala Ala Val His Pro Ala Arg Ile Ser Glu
 225 230 235 240
 Thr Asp Gly Val Asn Asn Arg Leu Gln Leu Ser Arg Leu Glu Arg Ile
 245 250 255
 Tyr Gln Ser Glu Gln Ala Glu Lys Leu Leu Ala Gly Val Met Leu
 260 265 270
 Arg Asp Pro Ala Arg Phe Asp Leu Arg Gly Thr Leu Thr His Gly Arg
 275 280 285
 Asp Val Glu Ile Asp Thr Asn Val Ile Leu Glu Gly Asn Val Thr Leu
 290 295 300
 Gly Asn Arg Val Lys Ile Gly Thr Gly Cys Val Ile Lys Asn Ser Ala
 305 310 315 320
 Ile Gly Asp Asp Cys Glu Ile Ser Pro Tyr Ser Val Val Glu Asp Ala
 325 330 335
 His Leu Glu Ala Ala Cys Thr Ile Gly Pro Phe Ala Arg Leu Arg Pro
 340 345 350
 Gly Ala Glu Leu Leu Glu Gly Ala His Val Gly Asn Phe Val Glu Met
 355 360 365
 Lys Lys Ala Arg Leu Gly Lys Gly Ser Lys Ala Gly His Leu Thr Tyr
 370 375 380
 Leu Gly Asp Ala Glu Ile Gly Asp Asn Val Asn Ile Gly Ala Gly Thr
 385 390 395 400
 Ile Thr Cys Asn Tyr Asp Gly Ala Asn Lys Phe Lys Thr Ile Ile Gly
 405 410 415
 Asp Asp Val Phe Val Gly Ser Asp Thr Gln Leu Val Ala Pro Val Thr
 420 425 430
 Val Gly Lys Gly Val Thr Ile Ala Ala Gly Thr Thr Val Thr Arg Asp
 435 440 445
 Val Ala Glu Asn Glu Leu Val Leu Ser Arg Val Pro Gln Val Ser Lys
 450 455 460
 Gln Gly Trp Lys Arg Pro Val Lys Gln Lys
 465 470 475

<210> 8388

<211> 615

<212> PRT

<213> Enterobacter cloacae

<400> 8388

Ser Gly Asn Ile Thr Met Cys Gly Ile Val Gly Ala Val Ala Gln Arg
 1 5 10 15
 Asp Ile Ala Glu Ile Leu Leu Glu Gly Leu Arg Arg Leu Gly Tyr Arg
 20 25 30
 Gly Tyr Asp Ser Ala Gly Leu Ala Val Val Asp Ala Glu Gly His Met
 35 40 45
 Thr Arg Leu Arg Arg Leu Gly Lys Val Gln Met Leu Ala Gln Ala Ala
 50 55 60
 Glu Glu His Pro Leu His Gly Gly Thr Gly Ile Ala His Thr Arg Trp
 65 70 75 80
 Ala Thr His Gly Glu Pro Ser Glu Gly Asn Ala His Pro His Val Ser
 85 90 95

Glu His Ile Val Val Val His Asn Gly Ile Ile Glu Asn His Glu Pro
 100 105 110
 Leu Arg Glu Glu Leu Lys Ala Arg Gly Tyr Thr Phe Val Ser Glu Thr
 115 120 125
 Asp Thr Glu Val Ile Ala His Leu Val His Trp Glu Leu Ala Lys Gly
 130 135 140
 Gly Thr Leu Arg Asp Ala Val Leu Arg Ala Ile Pro Gln Leu Arg Gly
 145 150 155 160
 Ala Tyr Gly Thr Val Ile Met Asp Ser Arg Asp Pro Ser Thr Leu Leu
 165 170 175
 Ala Ala Arg Ser Gly Ser Pro Met Val Ile Gly Leu Gly Met Gly Glu
 180 185 190
 Asn Phe Ile Ala Ser Asp Gln Leu Ala Leu Leu Pro Val Thr Arg Arg
 195 200 205
 Phe Ile Phe Leu Glu Glu Gly Asp Ile Ala Glu Val Thr Arg Arg Ser
 210 215 220
 Val Thr Val Phe Asp Thr Lys Gly Glu Gln Val Lys Arg Gln Glu Ile
 225 230 235 240
 Glu Ser Asn Leu Gln Tyr Asp Ala Gly Asp Lys Gly Ala Tyr Arg His
 245 250 255
 Tyr Met Gln Lys Glu Ile Tyr Glu Gln Pro Asn Ala Ile Lys Asn Thr
 260 265 270
 Leu Thr Gly Arg Ile Ser His Gly Glu Val Asp Leu Ser Glu Leu Gly
 275 280 285
 Ala Asn Ala Asn Glu Leu Leu Ser Lys Val Glu His Ile Gln Ile Val
 290 295 300
 Ala Cys Gly Thr Ser Tyr Asn Ser Gly Met Val Ser Arg Tyr Trp Phe
 305 310 315 320
 Glu Ser Leu Ala Gly Val Pro Cys Asp Val Glu Ile Ala Ser Glu Phe
 325 330 335
 Arg Tyr Arg Lys Ser Ala Val Arg Arg Asn Ser Leu Met Ile Thr Leu
 340 345 350
 Ser Gln Ser Gly Glu Thr Ala Asp Thr Leu Ala Ala Leu Arg Leu Ser
 355 360 365
 Lys Glu Leu Gly Tyr Leu Gly Ser Leu Ala Ile Cys Asn Val Pro Gly
 370 375 380
 Ser Ser Leu Val Arg Glu Ser Asp Leu Ala Leu Met Thr Lys Ala Gly
 385 390 395 400
 Thr Glu Ile Gly Val Ala Ser Thr Lys Ala Phe Thr Thr Gln Leu Thr
 405 410 415
 Val Leu Leu Met Leu Val Ala Lys Leu Ala Arg Leu Lys Gly Gln Asp
 420 425 430
 Ala Ser Val Glu His Asp Ile Val His Gly Leu Gln Ala Leu Pro Ser
 435 440 445
 Arg Ile Glu Gln Met Leu Ser Gln Asp Lys Arg Ile Glu Ala Leu Ala
 450 455 460
 Glu Asp Phe Ser Asp Lys His His Ala Leu Phe Leu Gly Arg Gly Asp
 465 470 475 480
 Gln Tyr Pro Ile Ala Leu Glu Gly Ala Leu Lys Leu Lys Glu Ile Ser
 485 490 495
 Tyr Ile His Ala Glu Ala Tyr Ala Ala Gly Glu Leu Lys His Gly Pro
 500 505 510
 Leu Ala Leu Ile Asp Ala Asp Met Pro Val Ile Val Val Ala Pro Asn
 515 520 525
 Asn Glu Leu Leu Glu Lys Leu Lys Ser Asn Ile Glu Glu Val Arg Ala
 530 535 540
 Arg Gly Gly Val Leu Tyr Val Phe Ala Asp Lys Asp Ala Gly Phe Ala
 545 550 555 560
 Ser Ser Asp Asn Met His Ile Ile Glu Met Pro His Val Glu Glu Val
 565 570 575
 Ile Ala Pro Ile Phe Tyr Thr Val Pro Leu Gln Leu Leu Ala Tyr His

Val	Ala	Leu	Ile	Lys	Gly	Thr	Asp	Val	Asp	Gln	Pro	Arg	Asn	Leu	Ala
		580					585					590			
		595					600					605			
Lys	Ser	Val	Thr	Val	Glu										
	610					615									

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<210> 8389
<211> 262
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 8390
<211> 459
<212> PRT
<213> Enterobacter cloacae
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<400> 8390

Asp	Ser	Asp	Glu	Phe	Ser	Leu	Leu	Val	Arg	Lys	Leu	Met	Met	Ser	Gln
1				5					10					15	
Gln	His	Thr	Thr	Gln	Thr	Ser	Gly	Gln	Gly	Leu	Leu	Glu	Arg	Val	Phe
			20				25						30		
Lys	Leu	Arg	Glu	His	Gly	Thr	Thr	Ala	Arg	Thr	Glu	Val	Ile	Ala	Gly
		35				40						45			
Phe	Thr	Thr	Phe	Leu	Thr	Met	Val	Tyr	Ile	Val	Phe	Val	Asn	Pro	Gln
50						55					60				

Ile Leu Gly Val Ala Gly Met Asp Thr Ser Ala Val Phe Val Thr Thr
 65 70 75 80
 Cys Leu Ile Ala Ala Leu Gly Ser Ile Leu Met Gly Val Phe Ala Asn
 85 90 95
 Leu Pro Val Ala Leu Ala Pro Ala Met Gly Leu Asn Ala Phe Phe Ala
 100 105 110
 Phe Val Val Val Gln Ala Met Gly Leu Pro Trp Gln Val Gly Met Gly
 115 120 125
 Ala Ile Phe Trp Gly Ala Val Gly Leu Leu Leu Thr Ile Phe Arg
 130 135 140
 Val Arg Tyr Trp Met Ile Ala Asn Ile Pro Val Ser Leu Arg Val Gly
 145 150 155 160
 Ile Thr Ser Gly Ile Gly Leu Phe Ile Gly Met Met Gly Leu Lys Asn
 165 170 175
 Ala Gly Val Ile Val Ala Asn Pro Glu Thr Leu Val Ser Ile Gly Asn
 180 185 190
 Leu Thr Ser His Ser Val Leu Leu Gly Val Leu Gly Phe Phe Ile Ile
 195 200 205
 Ala Ile Leu Ala Ser Arg Asn Ile His Ala Ala Val Leu Val Ser Ile
 210 215 220
 Ile Val Thr Thr Leu Leu Gly Trp Met Leu Gly Asp Val His Tyr Asn
 225 230 235 240
 Gly Ile Val Ser Ala Pro Pro Ser Val Ser Thr Val Ile Gly His Val
 245 250 255
 Asp Leu Ala Gly Ser Leu Asn Leu Gly Leu Ala Gly Val Ile Phe Ser
 260 265 270
 Phe Met Leu Val Asn Leu Phe Asp Ser Ser Gly Thr Leu Ile Gly Val
 275 280 285
 Thr Asp Lys Ala Gly Leu Ala Asp Glu Lys Gly Lys Phe Pro Arg Met
 290 295 300
 Lys Gln Ala Leu Tyr Val Asp Ser Ile Ser Ser Val Ala Gly Ser Phe
 305 310 315 320
 Ile Gly Thr Ser Ser Val Thr Ala Tyr Ile Glu Ser Ser Ser Gly Val
 325 330 335
 Ser Val Gly Gly Arg Thr Gly Leu Thr Ala Val Val Val Gly Leu Leu
 340 345 350
 Phe Leu Leu Val Ile Phe Leu Ser Pro Leu Ala Gly Met Val Pro Pro
 355 360 365
 Tyr Ala Ala Ala Gly Ala Leu Ile Tyr Val Gly Val Leu Met Thr Ser
 370 375 380
 Ser Leu Ala Arg Val Lys Trp Glu Asp Leu Thr Glu Ala Val Pro Ala
 385 390 395 400
 Phe Ile Thr Ala Val Met Met Pro Phe Ser Phe Ser Ile Thr Glu Gly
 405 410 415
 Ile Ala Leu Gly Phe Ile Ser Tyr Cys Val Met Lys Ile Gly Thr Gly
 420 425 430
 Arg Phe Arg Glu Leu Ser Pro Cys Val Ile Ile Val Ala Leu Leu Phe
 435 440 445
 Val Leu Lys Ile Val Phe Ile Asp Ser His
 450 455

<210> 8391

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 8391

Pro Phe Thr Ser Leu Met Pro Ser Val Ser Pro Val Thr Ser Ala Leu
 1 5 10 15
 Leu Arg Thr Thr Val Ile Gly Ser Leu Ala Gly Arg Arg Ala Ile Lys
 20 25 30

Ser Gly Gln Ile Ser Ala Gly Ser Thr Ala Ser Val Val Val Pro Ser
 35 40 45
 Thr Ile Asn Ser Thr Arg Ser Ala Cys Ser Ile Ser Cys Gln Ala Arg
 50 55 60
 Ser Ile Pro Ile Arg Ser Thr Ser Ser Leu Ala Ser Arg Arg Pro Ala
 65 70 75 80
 Val Ser Met Met Cys Ser Gly Ile Pro Ser Met Trp Ile Cys Ser Arg
 85 90 95
 Ser Thr Ser Arg Val Val Pro Ala Met Ser Val Thr Ile Ala Ala Ser
 100 105 110
 Arg Pro Ala Arg Ala Phe Ser Arg Leu Asp Phe Pro Ala Leu Gly Arg
 115 120 125
 Pro Ala Met Thr Thr Phe Met Pro Ser Arg Ser Arg Leu Pro Trp Arg
 130 135 140
 Ala Ser Ala Arg Thr Ala Ser Arg Ser Phe Ile Thr Trp Leu Ser
 145 150 155 160

<210> 8392

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8392

Asn Lys Leu Glu Thr Val Met Glu Asn Leu Asn Met Asp Leu Leu Tyr
 1 5 10 15
 Met Ala Ala Ala Val Met Met Gly Leu Ala Ala Ile Gly Ala Ala Ile
 20 25 30
 Gly Ile Gly Ile Leu Gly Gly Lys Phe Leu Glu Gly Ala Ala Arg Gln
 35 40 45
 Pro Asp Leu Ile Pro Leu Leu Arg Thr Gln Phe Phe Ile Val Met Gly
 50 55 60
 Leu Val Asp Ala Ile Pro Met Ile Ala Val Gly Leu Gly Leu Tyr Val
 65 70 75 80
 Met Phe Ala Val Ala
 85

<210> 8393

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 8393

Asn Pro Lys Pro Gln Lys Phe Lys Arg Tyr Cys Ala Val Asn Met Asn
 1 5 10 15
 Ala Thr Ile Leu Gly Gln Ala Ile Ala Phe Ile Leu Phe Val Trp Phe
 20 25 30
 Cys Met Lys Tyr Val Trp Pro Pro Leu Met Ala Ala Ile Glu Lys Arg
 35 40 45
 Gln Lys Glu Ile Ala Asp Gly Leu Ala Ser Ala Glu Arg Ala Lys Lys
 50 55 60
 Asp Leu Asp Leu Ala Gln Ala Asn Ala Thr Asp Gln Leu Lys Lys Ala
 65 70 75 80
 Lys Ala Glu Ala Gln Val Ile Ile Glu Gln Ala Asn Lys Arg Arg Ser
 85 90 95
 Gln Ile Leu Asp Glu Ala Lys Ala Glu Ala Glu Gln Glu Arg Thr Lys
 100 105 110
 Ile Val Thr Gln Ala Gln Ala Glu Ile Glu Ala Glu Arg Lys Arg Ala
 115 120 125
 Arg Glu Glu Leu Arg Lys Gln Val Ala Ile Leu Ala Val Ala Gly Ala
 130 135 140
 Glu Lys Ile Ile Glu Arg Ser Val Asp Glu Ala Ala Asn Ser Asp Ile

145 150 155 160
 Val Asp Lys Leu Val Ala Glu Leu
 165

<210> 8394
 <211> 502
 <212> PRT
 <213> Enterobacter cloacae

<400> 8394
 Leu Lys Ser Cys Ser Trp Phe Thr Thr Lys Leu Val Arg Pro Ala Leu
 1 5 10 15
 Leu Arg Asn Ser Pro Arg Ser Ser Arg Gly Pro Pro Arg Phe Asn Gln
 20 25 30
 Val Tyr Glu Leu Arg Arg Gly Phe Lys Met Ala Thr Gly Lys Ile Val
 35 40 45
 Gln Val Ile Gly Ala Val Val Asp Val Glu Phe Pro Gln Asp Ala Val
 50 55 60
 Pro Arg Val Tyr Asp Ala Leu Glu Val Gln Asn Gly Asn Glu Ser Leu
 65 70 75 80
 Val Leu Glu Val Gln Gln Gln Leu Gly Gly Ile Val Arg Thr Ile
 85 90 95
 Ala Met Gly Ser Ser Asp Gly Leu Arg Arg Gly Leu Glu Val Lys Asp
 100 105 110
 Leu Glu His Pro Ile Glu Val Pro Val Gly Lys Ala Thr Leu Gly Arg
 115 120 125
 Ile Met Asn Val Leu Gly Gln Pro Ile Asp Met Lys Gly Asp Ile Gly
 130 135 140
 Glu Glu Glu Arg Trp Ala Ile His Arg Ala Ala Pro Ser Tyr Glu Glu
 145 150 155 160
 Leu Ser Ser Ser Gln Glu Leu Leu Glu Thr Gly Ile Lys Val Ile Asp
 165 170 175
 Leu Met Cys Pro Phe Ala Lys Gly Gly Lys Val Gly Leu Phe Gly Gly
 180 185 190
 Ala Gly Val Gly Lys Thr Val Asn Met Met Glu Leu Ile Arg Asn Ile
 195 200 205
 Ala Ile Glu His Ser Gly Tyr Ser Val Phe Ala Gly Val Gly Glu Arg
 210 215 220
 Thr Arg Glu Gly Asn Asp Phe Tyr His Glu Met Thr Asp Ser Asn Val
 225 230 235 240
 Leu Asp Lys Val Ser Leu Val Tyr Gly Gln Met Asn Glu Pro Pro Gly
 245 250 255
 Asn Arg Leu Arg Val Ala Leu Thr Gly Leu Thr Met Ala Glu Lys Phe
 260 265 270
 Arg Asp Glu Gly Arg Asp Val Leu Leu Phe Val Asp Asn Ile Tyr Arg
 275 280 285
 Tyr Thr Leu Ala Gly Thr Glu Val Ser Ala Leu Leu Gly Arg Met Pro
 290 295 300
 Ser Ala Val Gly Tyr Gln Pro Thr Leu Ala Glu Glu Met Gly Val Leu
 305 310 315 320
 Gln Glu Arg Ile Thr Ser Thr Lys Thr Gly Ser Ile Thr Ser Val Gln
 325 330 335
 Ala Val Tyr Val Pro Ala Asp Asp Leu Thr Asp Pro Ser Pro Ala Thr
 340 345 350
 Thr Phe Ala His Leu Asp Ala Thr Val Val Leu Ser Arg Gln Ile Ala
 355 360 365
 Ser Leu Gly Ile Tyr Pro Ala Val Asp Pro Leu Asp Ser Thr Ser Arg
 370 375 380
 Gln Leu Asp Pro Leu Val Val Gly Gln Glu His Tyr Asp Thr Ala Arg
 385 390 395 400
 Gly Val Gln Ser Leu Leu Gln Arg Tyr Gln Glu Leu Lys Asp Ile Ile

405 410 415
 Ala Ile Leu Gly Met Asp Glu Leu Ser Glu Glu Asp Lys Leu Val Val
 420 425 430
 Ala Arg Ala Arg Lys Ile Gln Arg Phe Leu Ser Gln Pro Phe Phe Val
 435 440 445
 Ala Glu Val Phe Thr Gly Ser Pro Gly Lys Tyr Val Ser Leu Lys Asp
 450 455 460
 Thr Ile Arg Gly Phe Lys Gly Ile Met Glu Gly Glu Tyr Asp His Leu
 465 470 475 480
 Pro Glu Gln Ala Phe Tyr Met Val Gly Ser Ile Glu Glu Ala Val Glu
 485 490 495
 Lys Ala Lys Lys Leu
 500

<210> 8395

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 8395

Gly His Trp Ile Met Pro Gly Arg Ile Val Asn Val Leu Leu Ala Cys
 1 5 10 15
 Cys Leu Thr Gly Ile Ser Thr Met Ala Ser Ala Gly Val Val Ile Gly
 20 25 30
 Gly Thr Arg Val Val Tyr Ser Ser Asp Lys Ser Asp Ala Thr Ile Thr
 35 40 45
 Val Lys Asn Asn Glu Ala Ala Ile Pro Tyr Leu Ile Gln Thr Trp Val
 50 55 60
 Asp Pro Phe Ser Asn Thr Gly Thr Ala Lys Lys Pro Pro Phe Thr Val
 65 70 75 80
 Ile Pro Pro Val Ser Arg Leu Glu Ala Gly Gln Glu Lys Ile Leu Arg
 85 90 95
 Ile Met Lys Thr Glu Gly Asn Leu Pro Gln Asp Arg Glu Ser Val Phe
 100 105 110
 Trp Leu Asn Ile Lys Asn Ile Pro Pro Ala Ser Asn Lys Pro Asn Ala
 115 120 125
 Met Glu Ile Ala Ile Lys Thr Arg Ile Lys Leu Ile Trp Arg Pro Ala
 130 135 140
 Ser Leu Asn Ile Thr Pro Glu Arg Ala Ala Thr Gln Val Lys Trp His
 145 150 155 160
 Arg Glu Asn Arg Gln Leu Val Val Glu Asn Pro Thr Pro Leu Asn Ile
 165 170 175
 Asn Val Met Asn Val Thr Val Asp Gly Lys Asp Val Pro Leu Asn Ile
 180 185 190
 Val His Pro Phe Glu Thr Leu Arg Leu Pro Leu Pro Glu Gly Val Asn
 195 200 205
 Gly His Ala Leu Val Trp Arg Tyr Val Asn Asp Phe Gly Ala Ile Ser
 210 215 220
 Gln Asp Leu Lys Ala Ala Leu
 225 230

<210> 8396

<211> 846

<212> PRT

<213> Enterobacter cloacae

<400> 8396

Ala Lys Asp Gly Leu Phe Met Glu Cys Tyr Arg Ile Phe Ile Ala Leu
 1 5 10 15
 Ala Ser Gly Met Val Leu Gly Leu Ser Gly Glu Val Ala Ala Arg Asp
 20 25 30

Met Phe Asn Pro Ala Leu Leu Glu Ile Asp His Pro Val Asp Val Asp
 35 40 45
 Ile His Gln Phe Asn Arg Ala Asn Ser Leu Pro Ala Gly Asn Tyr Lys
 50 55 60
 Val Ser Ile Tyr Val Asn Gly Glu Tyr Val Asp Arg Arg Glu Val Thr
 65 70 75 80
 Phe Val Glu Asp Thr Ala Thr Ser Asn Leu His Pro Cys Phe Ser Asp
 85 90 95
 Ile Lys Thr Val Leu Ala Glu Leu Gly Val Lys Val Ala Ala Ile Lys
 100 105 110
 Ala Leu Asn Asp Ile Asp Asp Lys Ala Cys Leu Asp Pro Ala Pro Leu
 115 120 125
 Val Pro Gly Ser Thr Trp Thr Phe Asp Thr Asp Lys Leu Gln Leu Asn
 130 135 140
 Val Thr Leu Pro Gln Ile Tyr Ile Asp Val Ser Ala Arg Gly Tyr Ile
 145 150 155 160
 Asn Pro Ser Arg Trp Asp Glu Gly Ile Asn Ala Leu Met Val Asn Tyr
 165 170 175
 Asp Phe Ser Gly Ser Ser Thr Val His Ser Asn Glu Asp Asp Asn Asn
 180 185 190
 Asp Phe Tyr Tyr Leu Asn Leu Arg Asn Gly Ala Asn Leu Gly Ala Trp
 195 200 205
 Arg Leu Arg Asn Tyr Ser Thr Leu Asn Val Thr Asp Gly Glu Ser Ser
 210 215 220
 Tyr His Ser Ile Asn Thr Tyr Leu Gln Arg Asp Ile Ala Ala Leu Arg
 225 230 235 240
 Ser Gln Ile Met Leu Gly Asp Thr Trp Thr Ala Ser Asp Val Phe Asp
 245 250 255
 Ser Thr Gln Leu Arg Gly Met Arg Leu Tyr Thr Asp Asp Met Leu
 260 265 270
 Pro Ser Ser Leu Thr Gly Phe Ala Pro Val Val Arg Gly Val Ala Lys
 275 280 285
 Ser Asn Ala Thr Val Ile Val Arg Gln Asn Gly Tyr Ile Ile Tyr Gln
 290 295 300
 Ser Ala Val Pro Gln Gly Ala Phe Ala Leu Lys Asp Leu Asn Thr Thr
 305 310 315 320
 Asn Ser Gly Gly Asp Leu Asp Val Thr Ile Lys Glu Glu Asp Gly Ser
 325 330 335
 Glu Gln His Phe Thr Gln Pro Tyr Ala Ser Leu Ala Ile Leu Lys Arg
 340 345 350
 Glu Asp Gln Thr Asp Val Asp Ile Ser Ala Gly Glu Leu Arg Asp Gln
 355 360 365
 Asn Asp Phe Gln Pro Thr Val Phe Gln Ala Gln Val Leu His Gly Phe
 370 375 380
 Pro Ala Gly Ile Thr Leu Tyr Gly Gly Val Gln Gly Thr Ser Asp Tyr
 385 390 395 400
 Thr Ser Ala Ala Leu Gly Val Gly Lys Asp Met Gly Ser Leu Gly Ala
 405 410 415
 Leu Ser Leu Asp Val Thr His Ala Arg Ser Arg Phe Glu Asp Asp Asp
 420 425 430
 Glu Ser Gly Gln Ser Tyr Arg Phe Leu Tyr Ser Lys Arg Phe Asp Glu
 435 440 445
 Thr Asn Thr Thr Phe Arg Leu Val Gly Tyr Arg Tyr Ser Thr Glu Gly
 450 455 460
 Tyr Tyr Thr Leu Asn Glu Trp Ala Ser Arg Gln Asn Asn Glu Ser Asp
 465 470 475 480
 Phe Trp Thr Thr Gly Asn Arg Arg Ser Arg Leu Glu Gly Thr Trp Thr
 485 490 495
 Gln Thr Phe Gly Asp Gly Met Gly Asn Ile Tyr Leu Thr Leu Ser Arg
 500 505 510
 Gln Gln Tyr Trp Lys Thr Asp Glu Val Glu Arg Leu Val Gln Leu Gly

515 520 525
 Tyr Ser Asn Ser Trp Arg Ala Ile Ser Trp Asn Val Ser Trp Asn Tyr
 530 535 540
 Thr Asp Ser Leu Thr Ser Ala Gln Asn Ser Thr Asp Thr Asp Val Ser
 545 550 555
 Asp Ser Gln Gly Ser Glu Gln Ile Phe Met Leu Ser Leu Ser Ile Pro
 560 565 570 575
 Leu Ser Gly Trp Leu His Asp Ser Tyr Val Asn Tyr Gly Tyr Thr Gln
 580 585 590
 Asn Asn His Gly Lys Gly Met His Gln Val Gly Leu Ser Gly Asn Ala
 595 600 605
 Leu Asp Ala His Asn Leu Ser Trp Asn Val Gln Gln Ser Tyr Asp Ala
 610 615 620
 Asp Asn Glu Asp Tyr Asn Asn Ser Ala Gly Val Gly Tyr Asp Gly Thr
 625 630 635
 Tyr Gly Ser Val Asn Ala Ser Tyr Asp Tyr Thr Gln Asp Asn Gln Arg
 640 645 650 655
 Leu Asn Tyr Gly Met Lys Gly Gly Ile Leu Ala His Ser Asp Gly Ile
 660 665 670
 Thr Phe Ser Gln Glu Leu Gly Glu Thr Val Ala Leu Val Lys Ala Pro
 675 680 685
 Gly Ala Ser Gly Leu Ala Leu Glu Asn Gly Thr Gly Lys Ala Thr Asp
 690 695 700
 Trp Arg Gly Tyr Thr Val Gln Thr Gln Leu Asn Ala Tyr Asp Glu Asn
 705 710 715
 Arg Val Glu Ile Asp Ser Asp Tyr Phe Ala Lys Ala Asn Val Glu Ile
 720 725 730 735
 Asp Asn Ser Ile Leu Ser Val Ile Pro Thr Arg Gly Ala Val Val Arg
 740 745 750
 Ala Glu Phe Val Thr His Val Gly Tyr Arg Val Leu Phe Asn Val Arg
 755 760 765
 Gln Lys Ser Gly Lys Pro Val Pro Phe Gly Ala Met Ala Ser Ala Asp
 770 775 780
 Leu Pro His Gly Ser Val Thr Gly Ile Val Gly Glu Asn Gly Glu Leu
 785 790 795
 Tyr Leu Ser Gly Met Pro Glu Glu Gly Ala Phe Val Leu Lys Trp Gly
 800 805 810 815
 Ala Asp Asn Thr Met Thr Cys Pro Val Asn Tyr His Phe Thr Pro Pro
 820 825 830
 Glu Gly Val Glu Leu Ile Gln Ile Ser Ala Val Cys Gln
 835 840 845

<210> 8397

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 8397

Gly Asn Lys Met Lys Phe Arg Thr Pro Leu Phe Leu Ser Ala Leu Ile
 1 5 10 15
 Ile Phe Met Thr Pro Val Cys Lys Ala Tyr Thr Thr Gly Asp Gly Ile
 20 25 30
 Cys His Ser Glu Gly Gly Ala Tyr Ile Tyr Asn Leu Asn Leu Asn Gly
 35 40 45
 Gln Ser Ile Pro Ala Asp Lys Asn Lys Ala Gly Thr Glu Ile Arg Asp
 50 55 60
 Leu Glu Thr Leu Ser Ser Ala Ser Tyr Lys Ala Gln Cys Asn Cys
 65 70 75 80
 Leu Thr His Tyr Ser Thr Gly Phe Arg Gln Ile Tyr Tyr Thr Ala Arg
 85 90 95
 Ser Ser Leu Ser Glu Asp Val Val Lys Asn Gly Tyr Thr Tyr Phe Thr

100 105 110
 Leu Asn Asn Asn Leu Ser Ile Ala Thr Ser Ile Leu Val Leu Gly Arg
 115 120 125
 Asp Tyr Ile Pro Val Pro Phe Ser Ala Glu Pro Asn Val Met Ser His
 130 135 140
 Ser Ser Tyr Cys Tyr Ala Pro Gly Glu Glu Gly Ser Glu Pro Thr Leu
 145 150 155
 Asn Thr Gly Ser Lys Ile Lys Ile Ser Phe Leu Ile Asn Lys Pro Phe
 165 170 175
 Ile Gly Arg Val Ser Val Pro Gly Thr Ile Val Ala Asp Leu Tyr Gly
 180 185 190
 Gly Leu Asp Ala Ala Ser Ser Thr Ser Ser Thr Glu Lys Met Ala Glu
 195 200 205
 Ile Lys Ile Ala Gly Asp Ile Val Val Pro Gln Asn Cys Glu Ile Ala
 210 215 220
 Pro Gly Gln Thr Leu Glu Ile Asp Phe Gly Lys Ile Pro Ala Pro Glu
 225 230 235
 Phe Ser Ala Thr Lys Gly Thr Ala Val Thr Ser His Lys Val Lys Lys
 245 250 255
 Thr Ile Gln Val Gln Cys Thr Gly Met Leu Asp Glu Asn Ile Val Tyr
 260 265 270
 Ser Thr Phe His Gly Asp Pro Val Asp Ala Asp Ala Thr Met Met Lys
 275 280 285
 Val Asn Gly Asn Asp Asp Val Gly Ile Val Val Tyr Asp Lys Trp Asp
 290 295 300
 Arg Gln Val Ser Val Asn Gly Gly Arg Met Asp Met Asp Arg Gly Glu
 305 310 315
 Asn Asn Asn Gly Ala Glu Asn Asn Ser Leu Thr Phe Ser Ala Ala Pro
 325 330 335
 Ala Ser Ala Thr Gly Ala Gln Pro Lys Pro Gly Thr Phe Glu Ala Tyr
 340 345 350
 Ala Thr Val Thr Leu Glu Ile Glu His
 355 360

<210> 8398

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 8398

Thr Met Ile Tyr Glu Ile Leu Ala Gly Asp Ile Met Lys Val Met Arg
 1 5 10 15
 Thr Thr Val Ala Thr Val Val Ala Ala Thr Leu Ser Met Ser Ala Phe
 20 25 30
 Ser Ala Phe Ala Ala Ala Ser Leu Thr Gly Ala Gly Ala Thr Phe Pro
 35 40 45
 Ala Pro Val Tyr Ala Lys Trp Ala Asp Thr Tyr Gln Lys Glu Thr Gly
 50 55 60
 Asn Lys Val Asn Tyr Gln Gly Ile Gly Ser Ser Gly Gly Val Lys Gln
 65 70 75 80
 Ile Thr Ala Asn Thr Val Asp Phe Gly Ala Ser Asp Ala Pro Leu Ser
 85 90 95
 Asp Glu Lys Leu Asn Gln Glu Gly Leu Phe Gln Phe Pro Thr Val Ile
 100 105 110
 Gly Gly Val Val Leu Ala Val Asn Ile Pro Gly Leu Lys Ser Gly Glu
 115 120 125
 Leu Val Leu Asp Gly Lys Thr Leu Gly Asp Ile Tyr Leu Gly Lys Ile
 130 135 140
 Lys Lys Trp Asp Asp Glu Ala Ile Thr Lys Leu Asn Pro Gly Val Lys
 145 150 155 160
 Leu Pro Ser Gln Asn Ile Ala Val Val Arg Arg Ala Asp Gly Ser Gly

165 170 175
 Thr Ser Phe Val Phe Thr Ser Tyr Leu Ala Lys Val Asn Glu Trp
 180 185 190
 Lys Ser Lys Val Gly Ser Gly Ser Thr Val Asn Trp Pro Thr Gly Leu
 195 200 205
 Gly Gly Lys Gly Asn Asp Gly Ile Ala Ala Phe Val Gln Arg Leu Pro
 210 215 220
 Gly Ser Ile Gly Tyr Val Glu Tyr Ala Tyr Ala Lys Gln Asn Asn Leu
 225 230 235 240
 Ala Tyr Thr Lys Leu Val Ser Ala Asp Gly Lys Pro Val Ser Pro Thr
 245 250 255
 Glu Glu Asn Phe Ala Asn Ala Ala Lys Gly Ala Asp Trp Ser Lys Ser
 260 265 270
 Phe Ala Gln Asp Leu Thr Asn Gln Lys Gly Glu Asp Ala Trp Pro Ile
 275 280 285
 Thr Ser Thr Thr Phe Ile Leu Val His Lys Glu Gln Lys Lys Pro Glu
 290 295 300
 Gln Gly Ala Glu Val Leu Lys Phe Phe Asp Trp Ala Tyr Lys Asn Gly
 305 310 315 320
 Gly Lys Gln Ala Asn Asp Leu Asp Tyr Ala Ser Leu Pro Asp Ser Val
 325 330 335
 Val Glu Gln Ile Arg Ala Ala Trp Lys Thr Asn Val Lys Asp Ser Ser
 340 345 350
 Gly Lys Ala Leu Tyr
 355

<210> 8399

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 8399

Lys Arg Gly Gly Thr Leu Met Ala Thr Leu Asp Met Gln Asn Thr Ala
 1 5 10 15
 Gln Leu Ala Glu Ser Arg Arg Lys Met Gln Ser Lys Arg Arg Ile Lys
 20 25 30
 Asn Arg Ile Ala Leu Thr Leu Ser Met Ala Thr Met Ala Phe Gly Leu
 35 40 45
 Phe Trp Leu Ile Trp Ile Leu Met Ser Thr Ile Thr Arg Gly Ile Asp
 50 55 60
 Gly Met Ser Leu Ala Leu Phe Thr Glu Met Thr Pro Pro Pro Asn Thr
 65 70 75 80
 Ala Gly Gly Gly Leu Ala Asn Ala Leu Ala Gly Ser Gly Leu Leu Ile
 85 90 95
 Leu Trp Ala Thr Val Phe Gly Thr Pro Leu Gly Ile Met Ala Gly Ile
 100 105 110
 Tyr Leu Ala Glu Tyr Gly Arg Lys Ser Trp Ile Ala Glu Val Ile Arg
 115 120 125
 Phe Ile Asn Asp Ile Leu Leu Ser Ala Pro Ser Ile Val Val Gly Leu
 130 135 140
 Phe Val Tyr Thr Ile Val Val Ala Gln Met Glu His Phe Ser Gly Trp
 145 150 155 160
 Ala Gly Val Ile Ala Leu Ala Leu Leu Gln Val Pro Ile Val Ile Arg
 165 170 175
 Thr Thr Glu Asn Met Leu Lys Leu Val Pro Asp Ser Leu Arg Glu Ala
 180 185 190
 Ala Tyr Ala Leu Gly Thr Pro Lys Trp Lys Met Ile Ser Ala Ile Thr
 195 200 205
 Leu Lys Ala Ser Val Ser Gly Ile Met Thr Gly Ile Leu Leu Ala Ile
 210 215 220
 Ala Arg Ile Ala Gly Glu Thr Ala Pro Leu Leu Phe Thr Ala Leu Ser

225					230				235				240		
Asn	Gln	Phe	Trp	Ser	Thr	Asp	Met	Met	Gln	Pro	Ile	Ala	Asn	Leu	Pro
				245					250				255		
Val	Thr	Ile	Phe	Phe	Lys	Phe	Ala	Met	Ser	Pro	Phe	Ala	Glu	Trp	Gln
				260					265				270		
Leu	Ala	Trp	Ala	Gly	Val	Leu	Ile	Ile	Thr	Leu	Cys	Val	Leu	Leu	Leu
				275					280				285		
Asn	Ile	Leu	Ala	Arg	Val	Ile	Phe	Ala	Lys	Lys	Lys	His	Gly		
						295						300			

<210> 8400

 $\langle 211 \rangle$ 101

<212> PRT

<213> Enterobacter cloacae

<400> 8400

[illegible]

<210> 8401

<211> 727

<212> PRT

<213> Enterobacter cloacae

<400> 8401

Thr	Gly	Arg	Ser	5	Ile	Met	Lys	Thr	His	Pro	Gln	Tyr	Glu	Pro	Trp	Leu
1										10					15	
Gln	Gly	Met	Leu	Ile	Ile	Ala	Lys	Tyr	Tyr	Arg	Leu	Asp	Phe	Ser	Ala	
			20					25						30		
Glu	His	Val	Arg	Val	Thr	Ile	Asn	His	Glu	Ser	Gln	Ser	Pro	Arg	Gln	
		35					40					45				
Leu	Val	Leu	Glu	Glu	Met	Ala	Arg	Gln	Leu	Gly	Leu	Gly	Met	Arg	Trp	
		50				55					60					
Val	Ala	Ala	Glu	Ala	Leu	Ser	Leu	Asp	Pro	Trp	Arg	Leu	Pro	Leu	Leu	
65					70					75					80	
Ala	Glu	Phe	Thr	Gly	Gly	Gln	Ile	Ala	Val	Ile	Asn	Arg	Met	Asp	Asn	
				85					90					95		
Asp	Gly	Asn	Val	Ser	Val	Gln	Phe	Ser	Gly	Asp	Gly	Gly	Leu	Glu	Thr	
			100					105					110			
Thr	Leu	Thr	Arg	Asp	Glu	Leu	Gly	Ser	Arg	Leu	Lys	Gly	Leu	Met	Val	
		115					120					125				
Leu	Arg	Pro	Leu	Glu	Ser	Thr	Pro	Asp	Ala	Arg	Val	Asp	Asp	Tyr	Ile	
		130				135					140					
Lys	Pro	Tyr	Glu	Lys	Asn	Trp	Phe	Trp	Gln	Leu	Ala	Leu	Lys	Asp	Trp	
145					150					155					160	
Arg	Arg	Tyr	Ser	Asp	Ile	Met	Leu	Val	Ala	Leu	Val	Ala	Asn	Val	Leu	
			165						170					175		
Ala	Leu	Ser	Gly	Met	Val	Phe	Ser	Met	Gln	Val	Tyr	Asp	Arg	Val	Val	
			180					185					190			

Pro Ser Gln Ser Glu Ala Thr Leu Trp Val Leu Phe Gly Gly Val Met
 195 200 205
 Ile Ala Ile Val Phe Glu Phe Ile Met Arg Met Leu Arg Val His Ile
 210 215 220
 Ser Asp Val Val Gly Lys Arg Ala Asp Leu Arg Ile Ser Glu Arg Val
 225 230 235 240
 Phe Ala His Ala Leu Arg Ile Lys Asn Gly Ala Arg Ser Lys Ser Thr
 245 250 255
 Gly Ser Phe Ile Ala Gln Ile Arg Glu Leu Glu Ser Val Arg Glu Leu
 260 265 270
 Ile Thr Ser Thr Thr Ile Ala Ala Ile Ser Asp Leu Pro Phe Phe Leu
 275 280 285
 Leu Phe Val Phe Ile Leu Trp Met Ile Gly Gly Pro Leu Val Leu Val
 290 295 300
 Val Leu Leu Ala Val Pro Leu Leu Leu Ile Pro Gly Leu Leu Val Gln
 305 310 315 320
 Arg Pro Leu Gly Lys Leu Ser Ser Glu Gly Met Arg Glu Ser Ala Ile
 325 330 335
 Arg Asn Ala Thr Leu Val Glu Ala Val Gln Gly Leu Glu Asp Ile Lys
 340 345 350
 Leu Met Arg Ala Glu Gln Arg Phe Gln Asn Gln Trp Asn Asn Thr Asn
 355 360 365
 Asp Val Ala Ala Ser Val Gly Met Lys Gln Arg Trp Leu Thr Gly Leu
 370 375 380
 Leu Leu Thr Trp Thr Gln Glu Val Gln Ser Ile Val Tyr Ala Val Val
 385 390 395 400
 Leu Leu Val Gly Cys Tyr Leu Val Ile Ser Gly Asp Met Thr Thr Gly
 405 410 415
 Ala Leu Val Gly Thr Ser Ile Leu Ala Ser Arg Thr Ile Ala Pro Leu
 420 425 430
 Ser Gln Ile Ser Gly Val Leu Ser Arg Trp Gln Ser Ala Lys Val Ala
 435 440 445
 Arg Lys Gly Leu Asp Asp Leu Met Gln Arg Pro Ile Asp Asp Pro Gln
 450 455 460
 His Gly Lys Lys Val His Lys Ala His Leu Arg Gly Asp Tyr Leu Leu
 465 470 475 480
 Asp Asp Val Gly Phe Tyr Tyr Asp Glu Glu Glu Lys Leu Thr Val Leu
 485 490 495
 Asn Ile Ser Lys Leu Arg Ile Arg Ala Gly Glu Arg Val Ala Val Leu
 500 505 510
 Gly Arg Asn Gly Ser Gly Lys Ser Thr Leu Leu His Leu Leu Ala Gly
 515 520 525
 Met Gln Glu Pro Gln Gln Gly Ser Ile Leu Leu Asp Asp Ile Ala Leu
 530 535 540
 Asn His Leu Asp Pro Ala Asp Val Arg Arg Asp Met Gln Leu Leu Ser
 545 550 555 560
 Gln Gln Ala Arg Leu Phe Phe Gly Ser Val Arg Asp Asn Ile Leu Met
 565 570 575
 Gly Asn Pro Leu Ala Thr Asp Glu Glu Ile His Gln Ala Leu Val Asn
 580 585 590
 Ser Gly Ala Leu Glu Tyr Val Arg Lys Gln Lys Met Gly Leu Asn Thr
 595 600 605
 Ile Ile Asn Glu Gly Gly Thr Gly Leu Ser Gly Gly Gln Arg Gln Ala
 610 615 620
 Leu Leu Leu Ala Arg Ala Leu Ile Thr Ser Pro Asn Ile Leu Leu Leu
 625 630 635 640
 Asp Glu Pro Thr Ala Trp Leu Asp Glu Val Ser Glu Lys Gln Phe Ile
 645 650 655
 Gln His Leu His Gln Trp Leu Gly Lys Arg Arg Thr Leu Val Val Ala
 660 665 670
 Thr His Arg Leu Pro Ile Leu Asp Leu Val Asp Arg Ile Ile Val Leu

675	680	685
Glu Asn Gly Lys Val Val	Met Asp Gly Pro Arg	Asp Ala Ile Leu Arg
690	695	700
Gln His Gly Met Ala Pro	His Gln Ala Pro Gln	Arg Thr Val Lys Leu
705	710	715
Lys Thr Glu Gly Val Ala		
725		720

<210> 8402

<211> 6016

<212> PRT

<213> Enterobacter cloacae

<400> 8402

Thr	Ala	Lys	Val	Val	Asp	Val	Ile	Ile	Arg	Lys	Thr	Ala	Glu	Lys	Thr
1			5						10					15	
Lys	Leu	Thr	Gly	Glu	Gly	Asn	Leu	Ser	Val	Ser	Ile	Ser	Ser	Pro	Ser
			20				25						30		
Val	Ile	Glu	Ile	Gln	Gly	Ser	Ala	Gln	Asp	Val	Val	Arg	Tyr	Val	Arg
			35				40					45			
Gln	Gly	Asn	Asp	Leu	Leu	Ile	Tyr	Met	Lys	Asp	Gly	Ser	Val	Ile	Arg
			50			55					60				
Cys	Asn	Asn	Tyr	Phe	Val	Glu	Asp	Thr	Glu	Thr	His	Asn	His	Ser	Glu
65					70					75				80	
Leu	Val	Phe	Asn	Asp	Asn	Gln	Ala	Leu	Thr	His	Ile	Ser	Phe	Ala	Asp
					85				90					95	
Ala	Gly	Glu	Ala	Ser	Gly	Val	Ala	Ala	Thr	Glu	Leu	Thr	Ala	Gln	Ala
					100				105				110		
Ala	Pro	Ile	Ser	Ser	Ile	Glu	Pro	Phe	Leu	Glu	Gln	Gly	Ser	Val	Leu
					115				120				125		
Ser	Asp	Ala	Pro	Trp	Gly	Trp	Ile	Ala	Gly	Ala	Ala	Leu	Gly	Gly	Gly
					130						140				
Ala	Ile	Gly	Ala	Leu	Leu	Ala	His	Gly	Gly	Asp	Gly	Glu	Thr	Lys	Thr
					145					155				160	
Lys	Val	Ile	Asp	Asn	Thr	Lys	Glu	Val	Glu	Ser	Ala	Thr	Pro	Thr	Phe
					165					170				175	
Leu	Leu	Thr	Asp	Asn	Ala	Gly	Asp	Lys	Gln	Gly	Val	Leu	Ser	Ala	Lys
					180				185				190		
Glu	Val	Thr	Asp	Asp	Asn	Thr	Pro	Thr	Phe	Ser	Gly	Thr	Gly	Gln	Pro
					195				200				205		
Gly	Ala	Thr	Ile	Gln	Val	Lys	Asp	Gly	Ser	Gly	Ser	Thr	Ile	Ala	Ser
					210							220			
Thr	Met	Val	Ala	Lys	Asp	Gly	Thr	Trp	Thr	Val	Thr	Leu	Pro	Thr	Gln
					225							235		240	
Ala	Asp	Gly	Glu	His	Thr	Trp	Ser	Val	Val	Gln	Ile	Asp	Gly	Ser	Lys
					245					250				255	
Thr	Thr	Ser	Ala	Gly	Ser	Ile	Asn	Val	Thr	Val	Ser	Thr	Ala	Asp	Thr
					260				265				270		
Ser	Val	Thr	Leu	Ala	Thr	Thr	Ala	Gly	Asp	Asn	Val	Ile	Asn	Ala	Ser
					275				280				285		
Glu	Gln	Ser	Ala	Gly	Phe	Thr	Leu	Ser	Gly	Thr	Ser	Lys	Asn	Leu	Ala
					290							300			
Gln	Gly	Thr	Ala	Leu	Thr	Val	Thr	Leu	Asn	Gly	Arg	Thr	Tyr	Thr	Ala
					305					315				320	
Glu	Val	Gly	Ala	Asn	Gly	Ala	Trp	Ser	Val	Lys	Val	Pro	Ala	Ala	Asp
					325					330				335	
Ala	Gln	Ala	Leu	Gly	Asp	Gly	Thr	Trp	Thr	Val	Asn	Val	Ser	Gly	Lys
					340				345				350		
Asp	Ala	Ala	Gly	Asn	Thr	Val	Ser	Gly	Ser	Gln	Thr	Ile	Gly	Val	Asp
					355				360			365			
Thr	Ala	Ser	Pro	Val	Ile	Ser	Val	Asp	Thr	Ile	Ala	Gln	Asp	Asn	Ile

370	375	380
Ile Asn Ala Ala Glu His	Asn Gln Pro Leu Thr	Leu Thr Gly Lys Thr
385	390	395
Asp Ala Glu Ala Gly Gln Ile Val Thr	Val Thr Leu Asn Gly Lys Asn	400
	405	410
His Thr Ala Thr Val Gly Ser Asp Gly Ser Trp Ser Val Thr Leu Pro	420	425
	425	430
Ala Ser Glu Val Gln Thr Leu Ala Asn Gly Glu His Thr Leu Thr Val	435	440
	440	445
Asn Val Ser Asp Lys Ala Gly Asn Gly Ser Ser Ile Thr Ala Asp Phe	450	455
	455	460
Thr Val Asp Thr Ala Ala Pro Val Val Thr Ile Asn Thr Val Ala Gly	465	470
	470	475
Asp Asp Ile Leu Asn Thr Ser Glu Gln Gly Gln Ala Gln Ile Ile Ser	485	490
	490	495
Gly Gln Ala Asn Gly Ala Ala Glu Gly Asp Val Val Thr Val Thr Val	500	505
	505	510
Gly Gly Lys Thr Phe Thr Gly Val Val Gln Ala Asp Gly Ser Trp Ser	515	520
	520	525
Val Gly Val Pro Ala Ser Val Ile Gly Ala Leu Gly Glu Gly Ser His	530	535
	535	540
Ser Ile Ser Val Ala Val Thr Asp Ala Ala Gly Asn Thr Gly Ser Ala	545	550
	550	555
Thr His Gly Ile Thr Leu Ser Gly Asn Pro Pro Glu Phe Thr Leu Asp	565	570
	570	575
Pro Ile Ser Gln Asp Asn Val Leu Asn Ala Gln Glu Ala Met Gln Pro	580	585
	585	590
Leu Ser Leu Ser Gly Thr Ser Asn Leu Pro Asn Gly Ser Ala Val Thr	595	600
	600	605
Val Thr Leu Asn Asn Val Asn Tyr Gln Ala Thr Val Glu Asn Gly Arg	610	615
	615	620
Trp Ser Val Gln Val Pro Val Ser Asp Val Leu Asp Leu Ala Asn Thr	625	630
	630	635
Leu Tyr Thr Val Ser Val Ser Gly Thr Asp Ser Val Gly Asn Ser Gly	645	650
	650	655
Ser Ala Glu Ala Asn Leu Leu Val Asp Thr Val Leu Pro Gln Val Ile	660	665
	665	670
Val Asn Thr Phe Ala Gly Asp Asn Leu Val Asn Asn Ala Glu Ala Ala	675	680
	680	685
Val Asp Gln Thr Leu Ser Gly Arg Val Thr Gly Ala Ala Ala Gly Asp	690	695
	695	700
Thr Val Ser Val Thr Val Gly Gly Lys Ser Tyr Thr Ala Thr Val Gly	705	710
	710	715
Ser Asp Leu Lys Trp Ser Val Thr Ile Pro Ser Ala Asp Leu Gln Ala	725	730
	730	735
Phe Gly Asp Gly Asp Leu Thr Phe Ser Ala Ser Val Thr Asn Ala His	740	745
	745	750
Gly Asn Thr Gly Thr Gly Glu Arg Asp Ile Asn Ile Asn Ala Glu Leu	755	760
	760	765
Pro Gly Leu Arg Val Asn Thr Ile Ser Gly Asp Asp Val Ile Asn Ala	770	775
	775	780
Ile Glu Gln Gln Gln Asp Leu Ala Val Thr Gly Ser Ser Thr His Leu	785	790
	790	795
Ala Glu Gly Thr Gln Ile Thr Val Thr Ile Asn Asn Val Glu Tyr Val	805	810
	810	815
Thr Thr Val Asn Ala Ser Gly Ser Trp Gln Ile Gly Val Pro Ala Ala	820	825
	825	830
Asp Leu Gln Ala Trp Thr Ala Gly Gly Ile Thr Val Ser Val Ser Ala	835	840
	840	845
Glu Asp Ala Trp Gly Asn Thr Val Ala Ala Glu His Pro Ile Glu Leu	850	855
	855	860

Asp Leu Asn Ala Val Ala Val Thr Ile Asp Thr Val Thr Thr Asp Asp
 865 870 875 880
 Met Leu Asn Ala Ala Glu Lys Gly Ala Asp Val Thr Leu Ser Gly Gln
 885 890 895
 Thr Gln Gly Val Glu Ala Gly Gln Thr Val Val Lys Phe Ala Asp
 900 905 910
 Gln Thr Phe Thr Ala Gln Val Gln Gln Asp Gly Ser Trp His Leu Thr
 915 920 925
 Val Pro Ala Ser Ala Met Glu Thr Leu Ile Asp Gly Arg Ala Gln Val
 930 935 940
 Ser Val Ser Val Thr Asn Val Asn Gly Asn Ser Ala Asp Ala Ser Arg
 945 950 955 960
 Val Val Ile Val Asp Thr Gln Pro Pro Ala Ile Thr Leu Asp Asn Leu
 965 970 975
 Thr Asp Asp Asn Ile Ile Asn Ala Ala Glu Ala Gln Gln Asp Leu Val
 980 985 990
 Leu Ser Gly Ser Thr Thr Ala Glu Thr Gly Gln Thr Val Thr Val Thr
 995 1000 1005
 Leu Asn Gly Lys Ser Tyr Gln Thr Thr Val Gln Ala Asp Gly Arg Trp
 1010 1015 1020
 Gln Leu Asn Val Pro Ala Ala Asp Val Gly Ala Leu Thr Asp Gly Asn
 1025 1030 1035 1040
 Val Thr Val Thr Ala Thr Val Ser Asp Val Ala Gly Asn Ser Ser Ser
 1045 1050 1055
 Ala Asp Arg Val Gly Leu Val Asp Ala Thr Val Pro Gln Val Thr Ile
 1060 1065 1070
 Asn Asp Phe Val Thr Asp Thr Asn Thr Val Asn Gln Leu Ala His Ala
 1075 1080 1085
 Gln Ala Gln Ile Leu Ser Gly Ser Val Thr Gly Ala Ala Ala Gly Asp
 1090 1095 1100
 Leu Val Thr Ile Thr Ile Asn Asn Val Asp Tyr Thr Thr Val Val Asp
 1105 1110 1115 1120
 Ala Ala Gly Asn Trp Ser Leu Gly Leu Pro Ala Ser Val Ile Gln Gly
 1125 1130 1135
 Leu Thr Asp Gly Thr Trp Thr Ile Asn Val Ser Val Thr Asp Arg Ser
 1140 1145 1150
 Gly Asn Thr Gly Ser Ser Ser Val Asp Val Val Val Asn Thr Val Thr
 1155 1160 1165
 Pro Val Ile Gly Ile Asn Thr Leu Ala Ala Asp Asp Val Ile Asn Ala
 1170 1175 1180
 Ala Glu Lys Gly Glu Asp Leu Leu Leu Ser Gly Thr Ser Asn Gln Pro
 1185 1190 1195 1200
 Glu Gly Thr Thr Ile Thr Val Asn Leu Asn Gly Ile Asn Tyr Ser Ala
 1205 1210 1215
 Thr Thr Asp Ala Ser Gly Asn Trp Ser Val Thr Val Pro Ala Ser Ala
 1220 1225 1230
 Val Ser Ala Leu Gly Glu Ala Asn Tyr Thr Val Thr Ala Ser Val Thr
 1235 1240 1245
 Asp Asn Val Gly Asn Ser Ala Ala Ala Thr His Asp Val Leu Val Asp
 1250 1255 1260
 Ser Ser Leu Pro Val Val Thr Leu Asn Asn Phe Ala Gly Asp Asn Ile
 1265 1270 1275 1280
 Val Asn Ala Ala Glu Val Ala Ala Gly Gln Thr Leu Thr Gly Lys Val
 1285 1290 1295
 Ser Asn Ala Ala Ser Gly Asp Thr Val Thr Ile Ile Leu Gly Gly Gln
 1300 1305 1310
 Thr Tyr Thr Ala Thr Val Gln Asp Asp Leu Thr Trp Ser Leu Pro Leu
 1315 1320 1325
 Thr Gln Ser Gln Leu Thr Ala Leu Gly Asn Gly Asp Leu Thr Val Ser
 1330 1335 1340
 Ala Ser Val Thr Asn Ala His Gly Asn Thr Gly Ser Ser Ser Leu Asp

1345 1350 1355 1360
 Val Thr Ile Asp Ala Gln Leu Pro Gly Leu Arg Ile Asp Thr Val Ala
 1365 1370 1375
 Gly Asp Asp Val Ile Asn Val Ile Glu His Ala Gln Asn Leu Val Ile
 1380 1385 1390
 Ser Gly Thr Ser Thr Asp Leu Ala Ala Gly Ser Thr Val Thr Val Thr
 1395 1400 1405
 Ile Asn Gly Lys Ser Tyr Ser Ala Ser Val Gln Ala Asp Gly Thr Trp
 1410 1415 1420
 Gln Ala Ala Val Pro Ala Ala Asp Val Ser Arg Trp Ala Asp Gly Ser
 1425 1430 1435 1440
 Leu Thr Ile Ser Ala Ser Ala Gln Asp Thr Ser Gly Asn Pro Val Asn
 1445 1450 1455
 Ile Gly Thr Val Val Asp Val Asp Leu Ala Pro Val Ala Ile Ser Ile
 1460 1465 1470
 Asn Thr Val Thr Asp Asp Asn Val Leu Asn Ala Ala Glu Lys Gly Gln
 1475 1480 1485
 Asn Leu Val Leu Ser Gly Ser Ser Ser Asn Val Glu Ala Gly Gln Thr
 1490 1495 1500
 Val Thr Ile Ile Phe Ala Gly Lys Thr Trp Thr Thr Val Asp Ala
 1505 1510 1515 1520
 Asn Gly Asp Trp Thr Cys Thr Val Pro Ala Ala Asp Leu Ser Gly Leu
 1525 1530 1535
 Lys Asp Gly Glu Ala Ser Val Gln Val Ser Val Thr Asn Val Asn Gly
 1540 1545 1550
 Asn Ala Ala Ser Ser Ser Gln Ala Phe Ser Val Ala Thr Ala Ala Pro
 1555 1560 1565
 Ala Val Thr Ile Asn Thr Ile Ser Gly Asn Asn Met Leu Asn Ala Ala
 1570 1575 1580
 Glu Ala Ala Gln Glu Leu Thr Leu Ser Gly Thr Ser Thr Ala Glu Ala
 1585 1590 1595 1600
 Gly Gln Thr Val Thr Val Thr Phe Asn Gly Asn Gln Tyr Thr Ala Gln
 1605 1610 1615
 Val Gln Ala Asn Gly Ser Trp Thr Leu Asp Val Pro Ala Ala Asp Leu
 1620 1625 1630
 Ala Gly Ile Ala Asp Gly Ser Ala Ala Val Thr Val Thr Val Ser Asp
 1635 1640 1645
 Lys Ala Gly Asn Pro Ala Ser Ala Gly Ala Ser Val Leu Val Asp Thr
 1650 1655 1660
 Thr Val Pro Gln Ile Thr Phe Asp Ile Val Ala Gly Asp Asp Ile Val
 1665 1670 1675 1680
 Asn Ile Ala Glu His Gly Gln Ala Leu Ile Val Thr Gly Lys Val Thr
 1685 1690 1695
 Gly Ala Gln Ala Gly Asp Val Ile Thr Leu Thr Leu Asn Gly Lys Asp
 1700 1705 1710
 Tyr Thr Ala Met Leu Asp Gly Ala Gly Asn Trp Ser Val Gly Val Pro
 1715 1720 1725
 Ala Ala Asp Val Gly Ala Leu Ala Asn Gly Asp Gln Thr Ile Ser Ala
 1730 1735 1740
 Thr Val Thr Asp Lys Ala Gly Asn Ser Thr Ser Ala Thr His Ala Phe
 1745 1750 1755 1760
 Asp Val Ser Leu Thr Ala Pro Val Ile Ala Ile Asn Thr Leu Ala Val
 1765 1770 1775
 Asp Asp Val Ile Asn Ala Thr Glu Lys Gly Gln Asp Leu Leu Ile Ser
 1780 1785 1790
 Gly Thr Ser Asn Gln Pro Asp Gly Thr Arg Ile Thr Val Thr Leu Asn
 1795 1800 1805
 Gly Ile Ser Tyr Ala Ala Thr Thr Asp Ala Ser Gly Asn Trp Ser Val
 1810 1815 1820
 Thr Val Pro Ala Ala Asn Val Ser Ala Leu Gly Glu Ala Ser Tyr Ser
 1825 1830 1835 1840

Val Thr Ala Ser Val Thr Asp Thr Ala Gly Asn Ser Ala Asn Thr Ser
 1845 1850 1855
 His Ser Val Leu Val Asp Ser Ala Leu Pro Gln Val Thr Ile Asn Ala
 1860 1865 1870
 Val Ala Thr Asp Asp Val Ile Asn Ala Ala Glu Val Ala Ser Gly Gln
 1875 1880 1885
 Thr Leu Ser Gly Lys Val Ser Gly Ala Ala Ser Gly Asp Thr Val Thr
 1890 1895 1900
 Ile Ser Val Gly Gly Asn Thr Tyr Thr Thr Ile Val Gln Asp Asp Leu
 1905 1910 1915 1920
 Ser Trp Ser Val Asn Val Ala Ser Asp Val Leu Thr Ala Ile Gly Asn
 1925 1930 1935
 Gly Asp Leu Thr Val Ser Ala Ser Val Thr Asn Gly His Gly Asn Thr
 1940 1945 1950
 Gly Ser Gly Glu Arg Asp Ile Thr Ile Asp Ala Asn Leu Pro Gly Leu
 1955 1960 1965
 Arg Val Asn Lys Val Ala Gly Asp Asp Val Ile Asn Ser Ile Glu His
 1970 1975 1980
 Gly Gln Asn Leu Ile Ile Thr Gly Ser Ser Asp Gly Leu Ala Ala Gly
 1985 1990 1995 2000
 Ser Ala Leu Thr Val Thr Val Asn Gly Lys Thr Tyr Ala Ala Thr Val
 2005 2010 2015
 Leu Ala Asp Gly Thr Trp Thr Ala Ala Val Pro Ala Ala Asp Val Gly
 2020 2025 2030
 Ala Leu Ser Glu Gly Thr Val Thr Val Thr Val Glu Gly Gln Ser Ala
 2035 2040 2045
 Ala Gly Asn Pro Val Ser Ile Ser His Asp Val Lys Val Asp Leu Ala
 2050 2055 2060
 Thr Val Ala Ile Ser Ile Asp Ala Ile Ala Thr Asp Asp Val Ile Asn
 2065 2070 2075 2080
 Ala Ala Glu Lys Gly Ala Asp Leu Val Leu Ser Gly Ala Thr Thr Asn
 2085 2090 2095
 Val Glu Glu Asn Gln Thr Val Thr Ile Thr Phe Gly Gly Lys Thr Tyr
 2100 2105 2110
 Ser Ala Thr Val Asp Ala Ser Gly Asn Trp Thr Ala Thr Val Pro Ser
 2115 2120 2125
 Ala Asp Leu Gly Ser Leu Lys Asp Gly Asp Ala Ser Val Gln Val Ser
 2130 2135 2140
 Val Thr Asn Val Asn Gly Asn Ser Ala Ser Ala Gly Arg Glu Tyr Ser
 2145 2150 2155 2160
 Val Asp Ala Thr Ala Pro Thr Val Ser Ile Glu Ile Val Ser Asp Asn
 2165 2170 2175
 Asn Ile Ile Asn Ala Ala Glu Ala Gln Gln Asp Leu Val Val Asn Gly
 2180 2185 2190
 Val Ser Asn Ala Glu Ala Gly Gln Thr Val Thr Thr Leu Asn Gly
 2195 2200 2205
 Val Asp Tyr Thr Thr Thr Val Gln Ala Asn Gly Ser Trp Ser Val Thr
 2210 2215 2220
 Val Pro Ser Ala Asp Ile Gly Ala Ile Thr Asp Gly Ser Tyr Thr Ile
 2225 2230 2235 2240
 Thr Ala Ala Val Ala Asp Lys Ala Gly Asn Pro Ala Leu Ala Asp Arg
 2245 2250 2255
 Asp Val Leu Val Asp Thr Thr Val Pro Gln Leu Thr Ile Asn Thr Val
 2260 2265 2270
 Ser Asp Asp Asp Val Ile Asn Ser Ala Glu His Ala Gln Ala Leu Ile
 2275 2280 2285
 Val Thr Gly Ser Val Thr Gly Ala Ala Ala Gly Asp Val Val Thr Val
 2290 2295 2300
 Thr Ile Asn Asn Lys Asp Tyr Thr Ala Thr Leu Asp Ala Ser Gly Arg
 2305 2310 2315 2320
 Trp Ser Val Gly Val Pro Ala Ala Asp Val Ser Ala Leu Thr Ala Gly

										2325											2330											2335
Asp	His	Thr	Ile	Thr	Ala	Ala	Leu	Thr	Asp	Lys	Ala	Gly	Asn	Ser	Asn																	
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Ser	Thr	Thr	His	Glu	Val	Glu	Val	Asn	Leu	Thr	Ala	Pro	Val	Leu	Thr																	
										2355											2360											2365
Ile	Asp	Thr	Val	Ser	Gly	Asp	Asp	Val	Ile	Asn	Ser	Ser	Glu	Lys	Thr																	
										2370											2375											2380
Gln	Asp	Leu	Thr	Ile	Thr	Gly	Thr	Ala	Ser	Gly	Leu	Ala	Ala	Gly	Ala																	
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Val	Val	Thr	Val	Met	Leu	Asn	Gly	Lys	Ala	Tyr	Ser	Ala	Thr	Val	Asp																	
										2405											2410											2415
Thr	Asn	Gly	Gln	Trp	Thr	Thr	Thr	Val	Pro	Ala	Ser	Glu	Val	Gly	Gln																	
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Leu	Gly	Glu	Ala	Leu	Tyr	Thr	Val	Ser	Ala	Ser	Ala	Thr	Asp	Ser	Val																	
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Gly	Asn	Ser	Thr	Ser	Thr	Ser	His	Thr	Val	Asn	Val	Glu	Ser	Val	Leu																	
										2450											2455											2460
Pro	Gly	Val	Ile	Ile	Asn	Ala	Val	Ala	Gly	Asp	Asp	Val	Ile	Asn	Ala																	
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Ala	Glu	Leu	Ala	Thr	Gly	Gln	Thr	Ile	Ser	Gly	Thr	Val	Val	Asn	Ala																	
										2485											2490											2495
Glu	Ala	Gly	Asn	Thr	Val	Thr	Val	Ser	Val	Gly	Gly	His	Asn	Tyr	Thr																	
										2500											2505											2510
Ala	Thr	Val	Gln	Ser	Asp	Leu	Thr	Trp	Ser	Val	Ser	Val	Pro	Glu	Ser																	
										2515											2520											2525
Val	Leu	Thr	Ala	Leu	Gly	Asn	Gly	Asp	Leu	Thr	Val	Thr	Ala	Ser	Val																	
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Thr	Asn	Gly	Val	Gly	Asn	Ser	Gly	Ser	Gly	Glu	Arg	Asp	Ile	Thr	Ile																	
										2545											2550											2555
Asp	Ala	Asn	Leu	Pro	Gly	Leu	Arg	Val	Asp	Thr	Val	Ala	Gly	Asp	Asp																	
										2565											2570											2575
Val	Ile	Asn	Ser	Ile	Glu	His	Gly	Gln	Asn	Leu	Ile	Ile	Thr	Gly	Ser																	
										2580											2585											2590
Ser	Asp	Gly	Leu	Thr	Ala	Gly	Thr	Ala	Leu	Thr	Val	Thr	Val	Asn	Gly																	
										2595											2600											2605
Lys	Thr	Tyr	Ala	Ala	Thr	Val	Leu	Ala	Asp	Gly	Thr	Trp	Ser	Ala	Ala																	
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Ile	Pro	Ser	Ala	Asp	Val	Ser	Ala	Leu	Ala	Ala	Gly	Ala	Val	Thr	Val																	
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Asn	Val	Glu	Gly	Gln	Ser	Ser	Ala	Gly	Asn	Pro	Val	Thr	Ile	Asn	His																	
										2645											2650											2655
Asp	Val	Thr	Val	Asp	Leu	Ala	Asn	Val	Ala	Ile	Ser	Ile	Asp	Ala	Ile																	
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Ala	Ser	Asp	Asp	Val	Ile	Asn	Ala	Ala	Glu	Arg	Gly	Ala	Asp	Leu	Val																	
										2675											2680											2685
Leu	Ser	Gly	Thr	Thr	Ala	Asn	Val	Glu	Glu	Asn	Gln	Thr	Val	Thr	Ile																	
										2690											2695											2700
Thr	Phe	Gly	Gly	Lys	Ser	Tyr	Thr	Ala	Thr	Val	Asp	Ala	Glu	Gly	Lys																	
										2705											2710											2715
Trp	Thr	Ala	Thr	Val	Pro	Ser	Ala	Asp	Leu	Ala	Gly	Leu	Lys	Asp	Gly																	
										2725											2730											2735
Asp	Ala	Ser	Val	Gln	Val	Ser	Val	Thr	Asn	Val	Asn	Gly	Asn	Ser	Ala																	
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Ser	Ala	Gly	Arg	Glu	Tyr	Ser	Val	Asp	Ala	Thr	Ala	Pro	Ser	Val	Thr																	
										2755											2760											2765
Ile	Asn	Thr	Ile	Ala	Thr	Asp	Asp	Ile	Leu	Asn	Ala	Ser	Glu	Ala	Gln																	
										2770											2775											2780
Ser	Asp	Leu	Ala	Ile	Ser	Gly	Thr	Ser	Thr	Ala	Glu	Ala	Gly	Gln	Thr																	
										2785											2790											2795
Val	Thr	Val	Ser	Leu	Asn	Gly	Lys	Asp	Tyr	Thr	Thr	Val	Ser	Ala	Ala																	
										2805											2810											2815

Asn Gly Ser Trp Thr Leu Asn Val Pro Ala Ala Asp Leu Ala Gly Leu
 2820 2825 2830
 Thr Asp Gly Ser Val Thr Val Thr Ala Ser Val Ser Asp Lys Ala Gly
 2835 2840 2845
 Asn Pro Ala Ser Val Asp His Ala Leu Thr Val Asp Val Thr Val Pro
 2850 2855 2860
 Ala Val Thr Ile His Thr Val Ala Gly Asp Asp Val Ile Asn Val Ala
 2865 2870 2875 2880
 Glu His Asn Gln Ala Gln Ile Ile Ser Gly Ser Ala Thr Gly Ala Ala
 2885 2890 2895
 Ala Gly Asp Lys Val Thr Val Thr Ile Gly Gly Gln Thr Tyr Thr Thr
 2900 2905 2910
 Val Leu Asp Ala Ala Gly Asn Trp Ser Val Gly Val Pro Ala Asn Val
 2915 2920 2925
 Ile Ser Gly Leu Ser Asp Gly Thr Val Thr Val Ser Val Ser Val Thr
 2930 2935 2940
 Asp Ala Ala Gly Asn Thr Gly Ser Gly Met His Asn Val Thr Val Asp
 2945 2950 2955 2960
 Thr Gly Leu Pro Ser Val Ser Phe Asn Ala Ile Ser Asp Asp Asn Val
 2965 2970 2975
 Leu Asn Ala Val Glu Lys Gly Gln Asp Leu Ser Val Ser Gly Thr Ser
 2980 2985 2990
 Ala Asn Leu Ala Glu Gly Thr Gln Val Thr Val Thr Leu Asn Gly Lys
 2995 3000 3005
 Asn Tyr Thr Ala Thr Thr Ala Ala Asp Gly Thr Trp Ser Leu Thr Val
 3010 3015 3020
 Pro Ala Ala Asp Leu Ala Gly Leu Gly Gln Ala Ser Tyr Thr Leu Asn
 3025 3030 3035 3040
 Ala Thr Ala Thr Asn Gly Val Gly Asn Ser Val Ser Thr Thr Ala Asn
 3045 3050 3055
 Leu Leu Val Asp Thr Ala Leu Pro Thr Val Thr Ile Asn Thr Val Ala
 3060 3065 3070
 Gly Asp Asn Val Ile Asn Ala Ala Glu Val Ala Ala Gly Gln Thr Leu
 3075 3080 3085
 Ser Gly Thr Val Ala Asn Ala Glu Ala Gly Asn Thr Val Thr Val Ala
 3090 3095 3100
 Ile Gly Gly His Ser Tyr Thr Thr Ala Thr Val Gln Asn Asn Leu Ser Trp
 3105 3110 3115 3120
 Ser Val Asn Val Pro Ser Asp Val Leu Thr Ala Leu Gly Asn Gly Ser
 3125 3130 3135
 Leu Ser Val Thr Ala Thr Val Thr Asn Gly His Gly Asn Thr Gly Thr
 3140 3145 3150
 Gly Glu Arg Glu Ile Ala Ile Asp Ala Asn Leu Pro Gly Leu Arg Val
 3155 3160 3165
 Asp Thr Val Ala Gly Asp Asp Val Val Asn Thr Ile Glu His Ala Gln
 3170 3175 3180
 Asn Leu Ile Val Ser Gly Thr Ser Asp Gly Leu Ala Pro Gly Thr Ala
 3185 3190 3195 3200
 Leu Thr Val Thr Val Asn Gly Lys Asp Tyr Ala Ala Thr Val Leu Ala
 3205 3210 3215
 Asp Gly Thr Trp Arg Ala Ala Ile Pro Ser Thr Asp Val Ser Ala Trp
 3220 3225 3230
 Pro Glu Gly Thr Val Lys Ile Ser Val Thr Gly Asp Ser Ala Ala Gly
 3235 3240 3245
 Asn Pro Ile Thr Ile Ser His Asp Val Thr Val Asp Leu Ala Thr Val
 3250 3255 3260
 Ala Ile Ser Ile Asn Ala Leu Ala Thr Asp Asp Val Ile Asn Ala Ala
 3265 3270 3275 3280
 Glu Lys Gly Ala Asp Leu Val Leu Ser Gly Val Thr Thr Asn Val Glu
 3285 3290 3295
 Ala Gly Gln Thr Val Thr Ile Ser Leu Asn Gly Arg Ile Tyr Thr Thr

3300										3305										3310																											
Thr	Val	Asp	Asp	Ser	Gly	Asn	Trp	Thr	Tyr	Thr	Val	Pro	Ser	Ala	Asp	Thr	Val	Asp	Ser	Gly	Asn	Trp	Thr	Tyr	Thr	Val	Pro	Ser	Ala	Asp	Thr	Val	Asp	Ser	Gly	Asn	Trp	Thr	Tyr	Thr	Val	Pro	Ser	Ala	Asp		
3315										3320										3325																											
Leu	Ala	Gly	Leu	Lys	Asp	Gly	Asp	Ala	Ser	Val	Gln	Val	Ser	Val	Thr	Leu	Ala	Gly	Leu	Lys	Asp	Gly	Asp	Ala	Ser	Val	Gln	Val	Ser	Val	Thr	Leu	Ala	Gly	Leu	Lys	Asp	Gly	Asp	Ala	Ser	Val	Gln	Val	Ser	Val	Thr
3330										3335										3340																											
Asn	Val	Asn	Gly	Asn	Ser	Ala	Ser	Ala	Gly	Arg	Glu	Tyr	Ser	Val	Asp	Asn	Val	Asn	Gly	Asn	Ser	Ala	Ser	Ala	Gly	Arg	Glu	Tyr	Ser	Val	Asp	Asn	Val	Asn	Gly	Asn	Ser	Ala	Ser	Ala	Gly	Arg	Glu	Tyr	Ser	Val	Asp
3345										3350										3355																											
Ala	Thr	Ala	Pro	Ser	Val	Thr	Ile	Asn	Thr	Ile	Ala	Thr	Asp	Asp	Ile	Ala	Thr	Ala	Pro	Ser	Val	Thr	Ile	Asn	Thr	Ile	Ala	Thr	Asp	Asp	Ile	Ala	Thr	Ala	Pro	Ser	Val	Thr	Ile	Asn	Thr	Ile	Ala	Thr	Asp	Asp	Ile
3365										3370										3375																											
Leu	Asn	Ala	Thr	Glu	Ala	Gln	Ser	Asp	Leu	Ala	Ile	Ser	Gly	Thr	Ser	Leu	Asn	Ala	Thr	Glu	Ala	Gln	Ser	Asp	Leu	Ala	Ile	Ser	Gly	Thr	Ser	Leu	Asn	Ala	Thr	Glu	Ala	Gln	Ser	Asp	Leu	Ala	Ile	Ser	Gly	Thr	Ser
3380										3385										3390																											
Thr	Ala	Glu	Ala	Gly	Gln	Thr	Val	Thr	Val	Ser	Leu	Asn	Gly	Lys	Asp	Thr	Ala	Glu	Ala	Gly	Gln	Thr	Val	Thr	Val	Ser	Leu	Asn	Gly	Lys	Asp	Thr	Ala	Glu	Ala	Gly	Gln	Thr	Val	Thr	Val	Ser	Leu	Asn	Gly	Lys	Asp
3395										3400										3405																											
Phe	Thr	Thr	Thr	Val	Ser	Ala	Asn	Gly	Ser	Trp	Thr	Leu	Asn	Val	Pro	Phe	Thr	Thr	Thr	Val	Ser	Ala	Asn	Gly	Ser	Trp	Thr	Leu	Asn	Val	Pro	Phe	Thr	Thr	Thr	Val	Ser	Ala	Asn	Gly	Ser	Trp	Thr	Leu	Asn	Val	Pro
3410										3415										3420																											
Ala	Ala	Asp	Leu	Ala	Gly	Leu	Thr	Asp	Gly	Ser	Val	Thr	Val	Thr	Ala	Ala	Ala	Asp	Leu	Ala	Gly	Leu	Thr	Asp	Gly	Ser	Val	Thr	Val	Thr	Ala	Ala	Ala	Asp	Leu	Ala	Gly	Leu	Thr	Asp	Gly	Ser	Val	Thr	Val	Thr	Ala
3425										3430										3435																											
Ser	Val	Ser	Asp	Lys	Ala	Gly	Asn	Pro	Ala	Ser	Val	Asp	His	Thr	Leu	Ser	Val	Ser	Asp	Lys	Ala	Gly	Asn	Pro	Ala	Ser	Val	Asp	His	Thr	Leu	Ser	Val	Ser	Asp	Lys	Ala	Gly	Asn	Pro	Ala	Ser	Val	Asp	His	Thr	Leu
3445										3450										3455																											
Thr	Val	Asp	Val	Thr	Val	Pro	Ala	Val	Thr	Ile	His	Thr	Val	Ala	Gly	Thr	Val	Asp	Val	Thr	Val	Pro	Ala	Val	Thr	Ile	His	Thr	Val	Ala	Gly	Thr	Val	Asp	Val	Thr	Val	Pro	Ala	Val	Thr	Ile	His	Thr	Val	Ala	Gly
3460										3465										3470																											
Asp	Asp	Val	Ile	Asn	Val	Ala	Glu	His	Asn	Gln	Ala	Gln	Ile	Val	Ser	Asp	Asp	Val	Ile	Asn	Val	Ala	Glu	His	Asn	Gln	Ala	Gln	Ile	Val	Ser	Asp	Asp	Val	Ile	Asn	Val	Ala	Glu	His	Asn	Gln	Ala	Gln	Ile	Val	Ser
3475										3480										3485																											
Gly	Ser	Ala	Thr	Gly	Ala	Ala	Ala	Gly	Asp	Lys	Val	Thr	Val	Thr	Ile	Gly	Ser	Ala	Thr	Gly	Ala	Ala	Ala	Gly	Asp	Lys	Val	Thr	Val	Thr	Ile	Gly	Ser	Ala	Thr	Gly	Ala	Ala	Ala	Gly	Asp	Lys	Val	Thr	Val	Thr	Ile
3490										3495										3500																											
Gly	Gly	Gln	Thr	Tyr	Thr	Thr	Val	Leu	Asp	Ala	Ala	Gly	Asn	Trp	Ser	Gly	Gly	Gln	Thr	Tyr	Thr	Thr	Val	Leu	Asp	Ala	Ala	Gly	Asn	Trp	Ser	Gly	Gly	Gln	Thr	Tyr	Thr	Thr	Val	Leu	Asp	Ala	Ala	Gly	Asn	Trp	Ser
3505										3510										3515																											
Val	Gly	Val	Pro	Ala	Asn	Val	Ile	Ser	Gly	Leu	Ser	Asp	Gly	Thr	Ala	Val	Gly	Val	Pro	Ala	Asn	Val	Ile	Ser	Gly	Leu	Ser	Asp	Gly	Thr	Ala	Val	Gly	Val	Pro	Ala	Asn	Val	Ile	Ser	Gly	Leu	Ser	Asp	Gly	Thr	Ala
3525										3530										3535																											
Thr	Val	Ser	Val	Ser	Val	Thr	Asp	Ala	Ala	Gly	Asn	Thr	Gly	Ser	Gly	Thr	Val	Ser	Val	Ser	Val	Thr	Asp	Ala	Ala	Gly	Asn	Thr	Gly	Ser	Gly	Thr	Val	Ser	Val	Ser	Val	Thr	Asp	Ala	Ala	Gly	Asn	Thr	Gly	Ser	Gly
3540										3545										3550																											
Thr	His	Asn	Val	Thr	Val	Asp	Thr	Gly	Leu	Pro	Ser	Val	Ser	Phe	Asn	Thr	His	Asn	Val	Thr	Val	Asp	Thr	Gly	Leu	Pro	Ser	Val	Ser	Phe	Asn	Thr	His	Asn	Val	Thr	Val	Asp	Thr	Gly	Leu	Pro	Ser	Val	Ser	Phe	Asn
3555										3560										3565																											
Ala	Ile	Ser	Asp	Asp	Asn	Val	Leu	Asn	Ala	Val	Glu	Lys	Gly	Gln	Asp	Ala	Ile	Ser	Asp	Asp	Asn	Val	Leu	Asn	Ala	Val	Glu	Lys	Gly	Gln	Asp	Ala	Ile	Ser	Asp	Asp	Asn	Val	Leu	Asn	Ala	Val	Glu	Lys	Gly	Gln	Asp
3570										3575										3580																											
Leu	Arg	Val	Ser	Gly	Thr	Ser	Ala	Asn	Leu	Ala	Glu	Gly	Thr	Val	Val	Leu	Arg	Val	Ser	Gly	Thr	Ser	Ala	Asn	Leu	Ala	Glu	Gly	Thr	Val	Val	Leu	Arg	Val	Ser	Gly	Thr	Ser	Ala	Asn	Leu	Ala	Glu	Gly	Thr	Val	Val
3585										3590										3595																											
Ala	Val	Thr	Leu	Asn	Gly	Lys	Asn	Tyr	Thr	Ala	Thr	Thr	Ala	Ala	Asp	Ala	Val	Thr	Leu	Asn	Gly	Lys	Asn	Tyr	Thr	Ala	Thr	Thr	Ala	Ala	Asp	Ala	Val	Thr	Leu	Asn	Gly	Lys	Asn	Tyr	Thr	Ala	Thr	Thr	Ala	Ala	Asp
3605										3610										3615																											
Gly	Thr	Trp	Ser	Leu	Thr	Val	Pro	Ala	Ala	Asp	Leu	Thr	Gly	Leu	Gly	Gly	Thr	Trp	Ser	Leu	Thr	Val	Pro	Ala	Ala	Asp	Leu	Thr	Gly	Leu	Gly	Gly	Thr	Trp	Ser	Leu	Thr	Val	Pro	Ala	Ala	Asp	Leu	Thr	Gly	Leu	Gly
3620										3625										3630																											
Gln	Ala	Ser	Tyr	Thr	Leu	Asn	Ala	Thr	Ala	Thr	Asn	Gly	Val	Gly	Asn	Gln	Ala	Ser	Tyr	Thr	Leu	Asn	Ala	Thr	Ala	Thr	Asn	Gly	Val	Gly	Asn	Gln	Ala	Ser	Tyr	Thr	Leu	Asn	Ala	Thr	Ala	Thr	Asn	Gly	Val	Gly	Asn
3635										3640										3645																											
Ser	Val	Ser	Asn	Thr	Ala	Asn	Leu	Leu	Val	Asp	Thr	Ala	Leu	Pro	Thr	Ser	Val	Ser	Asn	Thr	Ala	Asn	Leu	Leu	Val	Asp	Thr	Ala	Leu	Pro	Thr	Ser	Val	Ser	Asn	Thr	Ala	Asn	Leu	Leu	Val	Asp	Thr	Ala	Leu	Pro	Thr
3650										3655										3660																											
Val	Thr	Ile	Asn	Thr	Ile	Ala	Gly	Asp	Asn	Val	Ile	Asn	Ala	Ala	Glu	Val	Thr	Ile	Asn	Thr	Ile	Ala	Gly	Asp	Asn	Val	Ile	Asn	Ala	Ala	Glu	Val	Thr	Ile	Asn	Thr	Ile	Ala	Gly	Asp	Asn	Val	Ile	Asn	Ala	Ala	Glu
3665										3670										3675																											
Val	Ala	Ala	Gly	Gln	Thr	Leu	Ser	Gly	Lys	Val	Ala	Asn	Ala	Glu	Ala	Val	Ala	Ala	Gly	Gln	Thr	Leu	Ser	Gly	Lys	Val	Ala	Asn	Ala	Glu	Ala	Val	Ala	Ala	Gly	Gln	Thr	Leu	Ser	Gly	Lys	Val	Ala	Asn	Ala	Glu	Ala
3685										3690										3695																											
Gly	Asn	Thr	Val	Thr	Val	Thr	Ile	Gly	Gly	Asn	Thr	Tyr	Thr	Ala	Thr	Gly	Asn	Thr	Val	Thr	Val	Thr	Ile	Gly	Gly	Asn	Thr	Tyr	Thr	Ala	Thr	Gly	Asn	Thr	Val	Thr	Val	Thr	Ile	Gly	Gly	Asn	Thr	Tyr	Thr	Ala	Thr
3700										3705										3710																											
Val	Gln	Ser	Asp	Leu	Thr	Trp	Ser	Val	Asn	Val	Pro	Glu	Ser	Val	Leu	Val	Gln	Ser	Asp	Leu	Thr	Trp	Ser	Val	Asn	Val	Pro	Glu	Ser	Val	Leu	Val	Gln	Ser	Asp	Leu	Thr	Trp	Ser	Val	Asn	Val	Pro	Glu	Ser	Val	Leu
3715										3720										3725																											
Thr	Ala	Leu	Gly	Asn	Gly	Asp	Leu	Thr	Val	Ser	Ala	Thr	Val	Thr	Asn	Thr	Ala	Leu	Gly	Asn	Gly	Asp	Leu	Thr	Val	Ser	Ala	Thr	Val	Thr	Asn	Thr	Ala	Leu	Gly	Asn	Gly	Asp	Leu	Thr	Val	Ser	Ala	Thr	Val	Thr	Asn
3730										3735										3740																											
Gly	His	Gly	Asn	Thr	Gly	Thr	Gly	Glu	Arg	Asp	Ile	Thr	Ile	Asp	Ala	Gly	His	Gly	Asn	Thr	Gly	Thr	Gly	Glu	Arg	Asp	Ile	Thr	Ile	Asp	Ala	Gly	His	Gly	Asn	Thr	Gly	Thr	Gly	Glu	Arg	Asp	Ile	Thr	Ile	Asp	Ala
3745										3750										3755																											
Ser	Leu	Pro	Gly	Leu	Arg	Val	Asn	Thr	Val	Ala	Gly	Asp	Asp	Val	Ile	Ser	Leu	Pro	Gly	Leu	Arg	Val	Asn	Thr	Val	Ala	Gly	Asp	Asp	Val	Ile	Ser	Leu	Pro	Gly	Leu	Arg	Val	Asn	Thr	Val	Ala	Gly	Asp	Asp	Val	Ile
3765										3770										3775																											
Asn	Ser	Ile	Glu	His	Gly	Gln	Asn	Leu	Ile	Val	Ser	Gly	Thr	Ser	Asp	Asn	Ser	Ile	Glu	His	Gly	Gln	Asn	Leu	Ile	Val	Ser	Gly	Thr	Ser	Asp	Asn	Ser	Ile	Glu	His	Gly	Gln	Asn	Leu	Ile	Val	Ser	Gly	Thr	Ser	Asp
3780										3785										3790																											

Gly Leu Ala Ala Gly Thr Thr Leu Thr Val Thr Val Asn Gly Lys Thr
 3795 3800 3805
 Tyr Ala Ala Ser Val Leu Ala Asp Gly Ser Trp Asn Ala Ala Ile Pro
 3810 3815 3820
 Ala Ala Asp Val Ala Ala Phe Ala Ala Gly Thr Val Thr Val Thr Val
 3825 3830 3835 3840
 Ala Gly Gln Ser Ala Ala Gly Asn Pro Val Thr Ile Ser His Asp Val
 3845 3850 3855
 Thr Val Asp Leu Ala Ala Val Ala Ile Ser Ile Asp Ala Ile Ala Thr
 3860 3865 3870
 Asp Asp Val Ile Asn Ala Ala Glu Lys Gly Val Asp Leu Val Leu Ser
 3875 3880 3885
 Gly Ser Thr Ser Asn Val Glu Glu Asn Gln Thr Val Thr Val Thr Phe
 3890 3895 3900
 Gly Gly Lys Thr Tyr Thr Ala Lys Val Asp Ala Asp Gly Asn Trp Thr
 3905 3910 3915 3920
 Ala Thr Val Pro Ser Ala Asp Leu Ala Gly Leu Lys Asp Gly Asp Ala
 3925 3930 3935
 Ser Val Gln Val Ser Val Thr Asn Ala His Gly Asn Ser Ala Ser Ala
 3940 3945 3950
 Gly Arg Glu Tyr Ser Val Asp Ala Thr Ala Pro Thr Val Thr Ile Asp
 3955 3960 3965
 Thr Val Ala Gly Asp Asn Val Ile Asn Gly Ser Glu Ala Ala Ala Gly
 3970 3975 3980
 Val Asp Ile Ser Gly Thr Thr Thr Ala Glu Val Gly Gln Thr Val Thr
 3985 3990 3995 4000
 Val Thr Leu Gly Gly Asn Ser Tyr Thr Ala Gln Val Gln Gln Gly Gly
 4005 4010 4015
 Val Trp Ser Val Asn Val Pro Gly Thr Asp Leu Ser Ala Leu Ala Asp
 4020 4025 4030
 Asn Gly Tyr Thr Val Gln Ala Ser Val Ser Asp Ala Ala Gly Asn Pro
 4035 4040 4045
 Gly Ser Ala Gly Lys Ala Ile Thr Leu Asp Thr Thr Pro Pro Thr Val
 4050 4055 4060
 Ser Phe Asn Val Val Ala Gly Asp Asp Val Ile Asn Ser Val Glu His
 4065 4070 4075 4080
 Gly Gln Ala Gln Ile Val Ser Gly Thr Ala Thr Gly Ala Ser Val Gly
 4085 4090 4095
 Asp Lys Val Val Ile Thr Ile Gly Ser Asn Gln Tyr Thr Thr Thr Val
 4100 4105 4110
 Asp Ala Ser Gly Lys Trp Ser Val Gly Val Pro Ala Ser Val Ile Ser
 4115 4120 4125
 Ala Leu Thr Asp Gly Thr Val Thr Leu Ser Ala Thr Ile Thr Asp Ser
 4130 4135 4140
 Ala Gly Asn Ser Ser Thr Gln Thr His Asp Val Val Val Asn Thr Ala
 4145 4150 4155 4160
 Ser Val Ala Leu Thr Val Asn Thr Leu Ser Gly Asp Asp Val Ile Asn
 4165 4170 4175
 Ala Ala Glu Ala Gly Ala Ser Leu Val Ile Asn Gly Ser Ser Ala Gln
 4180 4185 4190
 Phe Ala Ser Gly Thr Gln Val Thr Ile Thr Leu Asn Gly Lys Ser Tyr
 4195 4200 4205
 Thr Ala Thr Ile Gln Ser Asp Gly Ser Trp Thr Thr Thr Val Pro Ala
 4210 4215 4220
 Ala Asp Val Gly Thr Leu Ala Asp Gly Ala Ser Tyr Gln Val Ser Val
 4225 4230 4235 4240
 Ser Ala Gln Asp Ser Ala Gly Asn Ser Ala Ser Ala Thr His Thr Ile
 4245 4250 4255
 Ser Val Asp Thr Thr Ala Pro Val Ile Ser Val Asn Thr Leu Ser Gly
 4260 4265 4270
 Asp Asp Val Leu Asn Ala Ala Glu Ala Gln Gln Pro Leu Thr Val His

4275	4280	4285
Gly Ser Ser Ser Ala Glu Ala Gly Gln Thr Val Thr Val Thr Leu Gly		
4290	4295	4300
Gly Lys Thr Tyr Thr Ala Leu Val Gly Ser Asp Gly Thr Trp Thr Leu		
4305	4310	4315
Asp Val Pro Ala Ala Asp Leu Ala Ala Leu Ser Gln Gly Ala Leu Thr		4320
	4325	4330
Val Thr Ala Ser Val Asn Asp Lys Ala Gly Asn Ser Gly Gln Thr Thr		4335
	4340	4345
His Thr Leu Thr Val Asp Thr Ile Ala Pro Ala Val Thr Ile Ser Thr		4350
	4355	4360
Val Ala Asp Asp Asp Ile Val Asn Asn Ala Glu Gln Leu Ala Gly Gln		4365
	4370	4375
Thr Ile Ser Gly Thr Thr Thr Ala Glu Gln Gly Gln Thr Val Thr Val		4380
	4385	4390
Ser Phe Asn Gly His Ser Tyr Gln Ala Thr Val Ala Ala Asn Gly Ser		4395
	4405	4410
Trp Ser Val Phe Val Pro Gly Arg Asp Phe Leu Gly Leu Ser Asp Gly		4415
	4420	4425
Asp Tyr Thr Ile Thr Ala Thr Val Ser Asp Lys Ala Gly Asn Pro Gly		4430
	4435	4440
Ser Ala Thr His Asp Val Thr Leu Asn Gly Asp Val Pro Thr Ile Ala		4445
	4450	4455
Ile Asn Thr Phe Ala His Asp Asp Ile Val Asn Ala Ala Glu His Gly		4460
	4465	4470
Thr Pro Leu Val Ile Ser Gly Thr Thr Asp Ala Pro Ala Gly Gln Thr		4475
	4485	4490
Val Thr Ile Thr Leu Asn Gly Lys Thr Tyr Thr Ala Thr Val Gln Asn		4495
	4500	4505
Asp Gly Thr Trp Ser Tyr Thr Val Gly Ser Ala Asp Val Thr Ala Leu		4510
	4515	4520
Ala Asp Gly Gly Ser Tyr Val Ile Asn Ala Gln Val Ser Asn Ala Ile		4525
	4530	4535
Gly Asn Ser Val Ser Asp Asn His Thr Val Thr Val Asp Leu Thr Ala		4540
	4545	4550
Pro Ser Met Gly Ile Ser Ile Asp Ser Leu Gln Asn Asp Thr Gly Leu		4555
	4565	4570
Ser Ala Asn Asp Phe Ile Thr Asn Asp Ser Gln Val Val Val Asn Gly		4575
	4580	4585
Ser Leu Thr Ala Gln Leu Gly Asn Asn Glu Lys Ala Gln Ile Ser Leu		4590
	4595	4600
Asp Gly Val Thr Trp Ile Asp Leu Thr Val Thr Gly Thr Thr Trp		4605
	4610	4615
Arg Tyr Thr Asp Gly Arg Thr Leu Thr Asp Gly Thr Tyr Gln Tyr Gln		4620
	4625	4630
Val Arg Val Ile Asp Asn Ala Gly Asn Val Gly Ala Thr Asp Ser Gln		4635
	4645	4650
Asp Val Val Ile Asp Leu Thr Lys Pro Ala Ala Ala Thr Ile Thr Val		4655
	4660	4665
Asp Ser Val Ser Gln Asp Thr Gly Leu Ser Asp Ser Asp Phe Ile Thr		4670
	4675	4680
Ser Asp Asn Gln Ile Ser Leu Lys Gly Thr Leu Gly Ala Val Leu Gly		4685
	4690	4695
Ser Gly Asp His Ala Gln Ile Ser Leu Asp Gly Gly Ala Thr Trp Thr		4700
	4705	4710
Asp Val Ser Val Ser Gly Leu Ser Trp Thr Tyr Ile Asp Gly Arg Thr		4715
	4725	4730
Leu Thr Asp Gly Asp Tyr Asn Tyr Gln Leu Arg Val Ile Asp Glu Ala		4735
	4740	4745
Gly Asn Ile Ser Ala Thr Thr Ser Gln Val Val Thr Ile Asp Thr Val		4750
	4755	4760
		4765

Ala Pro Asp Ala Ser Lys Thr Ile Ala Ile Asp Ser Ile Ser Asp Asp
 4770 4775 4780
 Thr Gly Leu Ser Ser Ser Asp Phe Ile Thr Arg Asp Thr Ser Leu Thr
 4785 4790 4795 4800
 Leu His Gly Ser Leu Gly Ala Thr Leu Ala Asp Gly Glu Tyr Ala Gln
 4805 4810 4815
 Ile Ser Ile Asp Gly Gly Val Thr Trp Gln Asn Val Ile Val Thr Gly
 4820 4825 4830
 Asn Ser Trp Tyr Tyr Val Asp Gly Arg Thr Leu Gly Asn Gln Thr Tyr
 4835 4840 4845
 Asp Tyr Tyr Val Arg Val Val Asp Ala Ala Gly Asn Val Gly Ala Ser
 4850 4855 4860
 Ala His Gln Gln Val Thr Val Asp Thr Val Ala Pro Asp Ala Ala Ile
 4865 4870 4875 4880
 Thr Val Thr Val Asp Asn Ile Thr Val Asp Thr Gly Phe Asp Asn Asn
 4885 4890 4895
 Asp Phe Leu Thr Ser Ser Thr Ser Tyr Thr Leu Asn Gly Thr Leu Gly
 4900 4905 4910
 Ala Glu Leu Gly Ala Gly Glu Tyr Val Gln Val Ser Met Asp Gly Gly
 4915 4920 4925
 Thr Thr Trp Val Tyr Ala Thr Val Ser Gly Thr Gln Trp Arg Tyr Thr
 4930 4935 4940
 Asp Ala Arg Thr Leu Thr Asp Gly Asp Tyr Arg Tyr Gln Val Arg Val
 4945 4950 4955 4960
 Val Asp Gln Ala Gly Asn Val Gly Ala Thr Thr Thr Gln Asp Val Thr
 4965 4970 4975
 Val Asp Thr Gln Ala Pro Gln Tyr Gly Ile Thr Ile Asp Ser Ile Ser
 4980 4985 4990
 Glu Asp Thr Gly Gln Ser Gly Ser Asp Phe Ile Thr Met Asp Thr Ser
 4995 5000 5005
 Leu Thr Ile Asn Gly Ser Leu Gly Ser Ala Leu Ala Ser Asp Glu Arg
 5010 5015 5020
 Val Gln Ile Ser Leu Asp Gly Gly Asn Thr Trp Ile Asp Ala Thr Val
 5025 5030 5035 5040
 Thr Asn Gln Arg Trp Ser Tyr Thr Asp Thr Arg Asp Leu Ala Asp Gly
 5045 5050 5055
 Asp Tyr Asn Tyr Gln Val Arg Ile Ile Asp Gln Ala Gly Asn Val Gly
 5060 5065 5070
 Ser Thr Thr Ser Gln Val Val Thr Val Asp Thr Thr Pro Pro Asp Thr
 5075 5080 5085
 Val Gly Thr Val Val Ser Tyr Thr Asp Gly Glu Gly Glu Arg Gln Gly
 5090 5095 5100
 Ser Phe Gly Ala Ser Val Ala Thr Asp Asp Asn Ser Pro Val Ile Asn
 5105 5110 5115 5120
 Gly Thr Leu Asn Arg Ala Pro Asp Asn Gly Glu Ile Val Gln Leu Tyr
 5125 5130 5135
 Arg Asp Gly Val Leu Leu Gly Gln Val Thr Met Asn Gly Ala Ala Ser
 5140 5145 5150
 Trp Tyr Phe Gln Asp Ser Gly Leu Asn Asp Gly Asn His Val Tyr Met
 5155 5160 5165
 Leu Arg Val Thr Asp Leu Ala Gly Asn Phe Thr Asp Ser Asp Asp Phe
 5170 5175 5180
 Val Leu Lys Val Asp Thr Ser Ile Pro Thr Thr Thr Val Thr Ile Asn
 5185 5190 5195 5200
 Pro Gln Thr Thr Thr Asp Ser Thr Pro Ile Leu Ser Gly Leu Val Ser
 5205 5210 5215
 Ala Gly Leu Thr Asn Gly Glu Tyr Val Val Ile Thr Val Asn Asp Lys
 5220 5225 5230
 Thr Tyr Thr Ser Glu Thr Gly Gly Ala Val Val Val Asp Pro Asp Asn
 5235 5240 5245
 Asn Thr Trp Tyr Leu Gln Leu Pro Asp Gly Asp Ala Leu Ser Val Lys

5250	5255	5260
Asn Tyr Asp Val Thr	Ala Gln Val Lys Ser Ser Ala Gly Asn Gly Asn	
5265	5270	5275
Thr Ala Gly Leu Thr Thr Gly Ser Leu Ile Val Gly Ser Glu Glu Ser		5280
	5285	5290
Leu Thr Pro Ala Trp Ser Phe Thr Ala Ala Asn Tyr Ser Tyr Ser Ala		5295
	5300	5305
Ser Tyr Met Leu Asp Ser Asp Gly Leu Trp Thr Ile Met Ala Asn Gln		5310
	5315	5320
Gln Phe Ala Ser Ala Asn Thr Ser Ser Arg Asn Ala Tyr Thr Val Ser		5325
	5330	5335
Gly Asn Phe Ser Met Thr Gly Ser Tyr Thr Thr Gly Thr Tyr Ala Asp		5340
5345	5350	5355
Ile Asn Arg Asp Gly Leu Ala Asp Val Leu Ala Glu Gly Thr Ser Tyr		5360
	5365	5370
Ser Tyr Met Val Gln Leu Ile Asn Asn Gly Asp Gly Thr Tyr Thr Ser		5375
	5380	5385
Ser Thr Leu Thr Asn Met Gly Ala Ala Val Trp Tyr Gly Ala Val Val		5390
	5395	5400
Ala Ile Asp Ile Lys Gly Asp Gly Tyr Thr Asp Phe Val Ile Gly Asp		5405
	5410	5415
Ala Gly Gly Pro Asp Ser Ser Thr Val Met Leu Asn Asn Asn Gly Thr		5420
5425	5430	5435
Leu Thr Gly Ser Ser Lys Ser Gly Thr Tyr Ser Ser Phe Val Ser Gly		5440
	5445	5450
Ser Thr Val Gly Asn Tyr Asn Ser Leu Ile Glu Thr Ser Gly Val Asp		5455
	5460	5465
Leu Asn Asn Asp Gly Lys Val Asp Ile Ala Gln His Thr Thr Asn Gly		5470
	5475	5480
Gly Asn Asn Tyr Ala Leu Ser Thr Met Phe Asn Gln Gly Asn Gly Ser		5485
	5490	5495
Phe Thr Trp Gly Gln Asn Phe Thr Asn Thr Met Tyr Ser Gly Tyr Gly		5500
5505	5510	5515
Ser Ala Ala Ala Ser Asn Ala Val Ser Met Thr Trp Ala Asp Phe Asn		5520
	5525	5530
Gly Asp Gly Tyr Met Asp Leu Tyr Met Ser Met Ser Arg Thr Ser Ser		5535
	5540	5545
Gly Thr Ser Gln Gly Gly Val Leu Met Leu Asn Asp Gly Ser Gly Asn		5550
	5555	5560
Leu Leu Ala Gly Thr Ala Val Gly Thr Ala Thr Thr Asp Lys Phe Val		5565
	5570	5575
Gly Asn Val Ser Val Ala Val Asp Trp Asn Leu Asp Gly His Met Asp		5580
5585	5590	5595
Ile Ile Lys Leu Ala Asn Ser Gly Gln Ser Tyr Leu Tyr Thr Asn Asp		5600
	5605	5610
Gly Leu Ala Gly Thr Ala Ser Phe Thr Ala Ser Lys Phe Ser Thr Ala		5615
	5620	5625
Thr Ser Thr Gln Val Ser Gly Ala Ala Leu Leu Asp Tyr Asp Trp Asp		5630
	5635	5640
Gly Ala Gln Asp Leu Leu Ile Phe Arg Gln Asn Gly Thr Val Leu Leu		5645
	5650	5655
Glu Arg Asn Thr Asn Thr Val Ala Pro Gly Thr Ala Leu His Leu Lys		5660
5665	5670	5675
Ile Val Asp Ser Glu Gly Ile Asn Ala Phe Phe Gly Asn Thr Val Gln		5680
	5685	5690
Leu Tyr Asn Ala Ala Gly Gln Leu Val Ala Ser Glu Ile Ile Asn Ala		5695
	5700	5705
Gln Ser Gly Ile Gly Ile Asn Asp Ser Ser Ser Leu Ile Ser Phe Tyr		5710
	5715	5720
Gly Leu Asp Pro Ser Glu Thr Tyr His Ala Val Leu Val Arg Ala Val		5725
	5730	5735
		5740

Asn Gly Val Ser Ser Asn Val Thr Trp Asp Gly Leu Thr Ala Gly Asp
 5745 5750 5755 5760
 Gly Lys Glu Ser Tyr Ala Leu Thr Ala Glu Ala Ala Thr Gly Gly His
 5765 5770 5775
 Gln Gly Thr Leu Thr Gly Thr Gly Tyr Asn Asp Thr Phe Ile Ala Glu
 5780 5785 5790
 Ala Gly Thr Tyr Thr Tyr Asn Gly Ser Gly Gly Trp Thr Thr Ser
 5795 5800 5805
 Glu His Asp Thr Trp Ser Ser Thr Gly Gly Met Asp Val Val Asp Tyr
 5810 5815 5820
 Arg Asn Ala Thr Ser Gly Val Thr Ile Asp Leu Gly Arg Ser Thr Ala
 5825 5830 5835 5840
 Gln Ser Thr Gly Phe Asp Thr Ala Thr Leu Val Asn Ile Glu Gly Ile
 5845 5850 5855
 Asn Gly Ser Asp Tyr Asp Asp Val Ile Thr Gly Asn Ser Gly Asp Asn
 5860 5865 5870
 Gln Phe Glu Gly Arg Gly Gly Asn Asp Thr Phe Asn Ile Gly Ser Gly
 5875 5880 5885
 Gly His Asp Thr Leu Leu Tyr Lys Leu Ile Asn Ala Ser Asp Ala Thr
 5890 5895 5900
 Gly Gly Asn Gly Ser Asp Val Val Asn Gly Phe Thr Val Gly Thr Trp
 5905 5910 5915 5920
 Glu Gly Thr Ala Asp Thr Asp Arg Ile Asp Leu Arg Asp Leu Leu Ser
 5925 5930 5935
 Asp Ser Gly Tyr Thr Gly Thr Gly Ser Ala Ser Tyr Val Asn Gly Val
 5940 5945 5950
 Ala Thr Leu Asp Ser Ser Ala Gly Asn Ile Ala Asp Tyr Ile Arg Val
 5955 5960 5965
 Val Gln Asn Gly Ser Asn Thr Glu Ile Gln Val Asp Leu Asp Gly Thr
 5970 5975 5980
 Gly Gly Gln Phe Ser Pro Thr Thr Leu Val Thr Leu Asn Gly Val Gln
 5985 5990 5995 6000
 Thr Asp Leu Ala Thr Leu Leu Ala Asn His Gln Leu Leu Ile Ala
 6005 6010 6015

<210> 8403
 <211> 399
 <212> PRT
 <213> Enterobacter cloacae

<400> 8403
 Thr Glu Asn Gly Gly Arg Gly Met Asn Asp Phe Ser Arg Phe Asn Ser
 1 5 10 15
 Arg Leu Lys Glu Pro Arg Leu Pro Arg Ser Ser Leu Val Ala Trp Ser
 20 25 30
 Leu Phe Ala Leu Leu Val Val Phe Ile Thr Trp Ala Ser Leu Phe Gln
 35 40 45
 Leu Asp Glu Val Thr Thr Gly Ser Gly Lys Val Ile Pro Ser Ser His
 50 55 60
 Glu Gln Val Ile Gln Ser Leu Glu Gly Gly Ile Ile His Ser Leu Met
 65 70 75 80
 Val Arg Glu Gly Asp Ile Val Glu Arg Gly Gln Gln Leu Ala Gln Leu
 85 90 95
 Asp Arg Thr Lys Thr Glu Ser Ser Val Leu Glu Ser Glu Ser Arg Leu
 100 105 110
 Asn Ala Ala Met Ala Thr Ala Ala Arg Leu Asn Ala Glu Val Asn Asp
 115 120 125
 Thr Gly Leu Thr Phe Pro Ala Glu Leu Asp Asp Asp Val Glu Leu Val
 130 135 140
 Lys Gln Glu Thr Ala Leu Tyr Gln Ser Arg Arg Glu Ser Leu Glu Lys
 145 150 155 160

Gly Leu Ala Gly Leu Arg Gln Gly Ala Asp Leu Val Gln Arg Glu Leu
 165 170 175
 Ala Leu Thr Arg Pro Leu Val Thr Gln Gly Ala Ala Ser Lys Val Glu
 180 185 190
 Val Leu Arg Leu Glu Arg Gln Lys Asn Glu Leu Glu Ser Lys Ile Thr
 195 200 205
 Glu Met Lys Asn Gln Tyr Tyr Val Arg Ala Arg Glu Glu Leu Ala Lys
 210 215 220
 Ala Asn Ala Glu Ile Glu Ala Gln Arg Ser Val Met Lys Gly Arg Glu
 225 230 235 240
 Asp Ser Leu Thr Arg Leu Thr Phe Asn Ala Pro Val Arg Gly Ile Val
 245 250 255
 Lys Asp Ile Asp Val Thr Thr Val Gly Gly Val Ile Pro Pro Asn Gly
 260 265 270
 Lys Leu Met Ser Leu Val Pro Leu Asp Asp Gln Met Val Ile Glu Ala
 275 280 285
 Lys Ile Ser Pro Arg Asp Val Ala Phe Ile His Pro Gly Gln Lys Ala
 290 295 300
 Leu Val Lys Ile Thr Ala Tyr Asp Tyr Ser Ile Tyr Gly Gly Leu Glu
 305 310 315 320
 Gly Glu Val Thr Met Ile Ser Pro Asp Thr Leu Gln Asp Glu Val Lys
 325 330 335
 Arg Asp Val Tyr Tyr Tyr Arg Val Tyr Ile Arg Thr Asp Ser Asn His
 340 345 350
 Leu Thr Asn Arg Gln Gly Lys Ala Phe Pro Val Phe Pro Gly Met Ile
 355 360 365
 Ala Thr Val Asp Ile Lys Thr Gly Ser Lys Ser Val Ile Asp Tyr Leu
 370 375 380
 Leu Lys Pro Leu Asn Lys Ala Lys Glu Ala Leu Arg Glu Arg
 385 390 395

<210> 8404

<211> 261

<212> PRT

<213> *Enterobacter cloacae*

<400> 8404

Arg Lys Asn Val Pro Val His Asn Ile Asp Asn Gly Leu Leu Thr Lys
 1 5 10 15
 Gln Gly Ala Val Lys Leu Phe Asn Ala Thr Lys Ser Ile Gly Phe Asn
 20 25 30
 Tyr Arg Trp Glu Tyr Tyr Leu His Ser Gln Glu Gln Val Met Ser Gln
 35 40 45
 Asn Leu Pro Phe Ile Gln Gly Thr Cys Tyr Lys Gln Arg Phe Val Ile
 50 55 60
 Ser Ala Cys Gly Phe Thr Phe Glu Gly Tyr Ser Leu Leu Lys Ser
 65 70 75 80
 Arg Gly Val Asn Ala Thr Arg Leu His Phe Glu Glu Asp Glu Val Cys
 85 90 95
 Ser Gly Asp Val His Lys Met Met Gln Asn Gln Pro Pro Glu Val Ala
 100 105 110
 Val Phe Leu Gly Arg Asp Val Ala Ala Phe Leu Glu Ser Leu Lys Gln
 115 120 125
 Leu Val Ser Val Leu Asn Ala Leu Pro Val Ile Cys Ser Val Thr Leu
 130 135 140
 Tyr Gly Ala Ile Pro Glu Arg Trp Leu Tyr Ala Thr Leu Cys Ser Leu
 145 150 155 160
 Val Asn Asn Thr Lys Ser Leu Ser Met Ile Arg Ile Ala Asn Ile Ser
 165 170 175
 Asp Val Met Asp Cys Ala Asp Asn Ile Tyr Asp Val His Thr Asp Ser
 180 185 190

Ser Arg Ile Leu Arg Asp Gly Pro Glu Lys Glu Gly Lys Glu Ser Leu
 195 200 205
 Asn Gly Leu Thr Lys Arg Glu Leu Thr Val Leu Leu Asn Phe Tyr Arg
 210 215 220
 Gly Ile Ser Ile Lys Glu Gln Ser Ala Arg Leu Gly Leu Ser Asp Lys
 225 230 235 240
 Thr Ile Tyr Thr His Arg Lys Lys Gly Val Gly Lys Ile Tyr Pro Asn
 245 250 255
 Gln Gly Phe Gly
 260

<210> 8405

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 8405

Asn Arg Val Ile Phe Ser Gly Gly Leu Met Ala Asp Phe Thr Leu Ser
 1 5 10 15
 Lys Pro Ile Phe Gly Gly Lys Gln Pro Lys Thr Ser Thr Ala Gly Asn
 20 25 30
 Ile Ala Tyr Ala Leu Phe Val Leu Phe Cys Phe Trp Ala Gly Thr Gln
 35 40 45
 Leu Leu Asn Met Leu Val His Ala Pro Gly Val Tyr Glu His Leu Met
 50 55 60
 Gln Val Gln Asp Thr Gly Arg Pro Arg Val Glu Phe Gly Leu Gly Val
 65 70 75 80
 Ser Thr Val Phe Gly Leu Ile Pro Phe Leu Ala Gly Ser Met Val Leu
 85 90 95
 Gly Val Ile Ala Leu Val Leu Arg Trp Arg Asn Arg His
 100 105 110

<210> 8406

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 8406

Arg Leu Ser Tyr Gly Arg Cys His Lys Met Gly Ala Thr Leu Gln Val
 1 5 10 15
 Asn Cys Ser Asn Leu Pro Thr Val Thr Phe Phe Ser Leu Ser Leu Cys
 20 25 30
 Lys Ser Gly His Cys Pro Thr Pro Ile Ser Ser Ile Thr Thr Arg Asn
 35 40 45
 Phe Pro Tyr Ser Leu Asp Gly Cys Phe Ser Leu Lys Arg Cys Leu Leu
 50 55 60
 Ser Ile Ala Ala Leu Cys Ala Val Ser Leu Ser Thr Ala Gln Ala Ala
 65 70 75 80
 Gln Pro Leu Thr Ala Pro Val Leu Ala Ser Asp Ile Ala Asp Arg Tyr
 85 90 95
 Ala Asn Leu Ile Tyr Tyr Gly Ser Gly Ala Thr Gly Met Ala Leu Val
 100 105 110
 Val Ile Asp Gly Asn Gln Arg Val Phe Arg Ser Phe Gly Glu Thr Arg
 115 120 125
 Pro Gly Asn Asn Val Arg Pro Gln Leu Asp Ser Val Ile Arg Val Ala
 130 135 140
 Ser Ile Thr Lys Leu Met Thr Ser Glu Met Leu Val Lys Leu Leu Asp
 145 150 155 160
 Gln Gly Val Val Lys Leu Asp Asp Pro Leu Ser Lys Tyr Ala Pro Pro
 165 170 175
 Gly Ala Arg Val Pro Thr Tyr Gln Gly Thr Pro Ile Arg Leu Val Asn

180	185	190
Leu Ala Thr	Leu Pro Arg Glu Gln	Pro Gly Gly Ala
195	200	205
Ala His Arg Pro Val Phe Val Trp	Pro Thr Arg Glu	Gln Arg Trp Asn
210	215	220
Tyr Leu Ser Thr Ala Thr Leu	Lys Ser Ala Pro Gly Ser Gln Ala Gly	
225	230	235
Tyr Ser Asn Leu Ala Phe Asp Leu Leu Ala Asp Ala Leu Ala Thr Ala		
240	245	250
Ser Gly Lys Pro Tyr Pro Gln Leu Phe Glu Glu Gln Ile Thr Arg Pro		
255	260	265
Leu Gly Met Lys Asp Thr Thr Tyr Thr Pro Ser Pro Asp Gln Cys Lys		
270	275	280
Arg Leu Met Val Ala Glu Lys Gly Ala Ser Pro Cys Asn Asn Thr Leu		
285	290	295
Ala Ala Ile Gly Ser Gly Gly Val Tyr Ser Thr Pro Gly Asp Met Met		
300	305	310
Arg Trp Met Gln Gln Phe Leu Ser Ser Asp Phe Tyr Ala Arg Ser Asn		
315	320	325
Gln Ala Asp Arg Met Gln Thr Leu Ile Tyr Gln Arg Ala Gln Leu Arg		
330	335	340
Arg Val Ile Gly Met Asp Val Pro Gly Lys Ala Asp Ala Leu Gly Met		
345	350	355
Gly Trp Val Tyr Met Ala Pro Lys Asp Gly Arg Pro Gly Ile Ile Gln		
360	365	370
Lys Thr Gly Gly Gly Gly Gly Phe Ile Thr Tyr Met Ala Met Ile Pro		
375	380	385
Gln Ser Asn Val Gly Ala Phe Val Val Val Thr Arg Ser Pro Asn Thr		
390	395	400
Arg Phe Val Asn Met Ser Asp Gly Val Asn Asn Leu Val Ala Glu Leu		
405	410	415
Ser Ala Asn Lys Ala Gln Val Leu Thr Ala Ser Asn		
420	425	430
435	440	445

<210> 8407

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 8407

Ser Met Phe Ser Leu Asp Ser Val Leu Asp Leu Trp Pro Gln Ala	
1	5
Arg Pro Ala Pro Trp Gln Lys Ser Leu Leu Lys Arg Leu Leu His Glu	
20	25
Asp Glu Phe Gln Gln Phe Ala Ala Ser His Arg His Leu Lys Gly Leu	
35	40
Asp Met Val Asp Gln Val Leu Glu His Leu Asp Ile His Cys Ser Val	
50	55
Ser Ala Arg Asp Leu Glu Gln Ile Pro Glu His Gly Pro Leu Ile Val	
65	70
Ile Ala Asn His Pro Thr Gly Thr Leu Asp Gly Leu Ala Leu Leu Tyr	
85	90
Ala Val Ser Arg Val Arg Arg Asp Val Arg Val Val Thr Asn Arg Met	
100	105
Leu Ser His Leu Glu Pro Leu Ser Ser Leu Phe Ile Pro Val Asp Asn	
115	120
Met Gly Gly Arg Thr Ala Lys Ala Ser Leu Ile Gln Met Glu Gln His	
130	135
Leu Gln Asn Ala Gly Val Leu Ile Phe Phe Pro Ala Gly Glu Val Ser	
145	150
Arg Pro Thr Arg Lys Gly Ile Arg Asp Lys Lys Trp His Pro Gly Phe	
	155
	160

Ile Lys Leu Ala 165 Gly Lys Leu Arg Val 170 Pro Leu Leu Pro Val His Ile 175
 180 185 190
 Gln Ala His Asn Ser Leu Leu Phe Tyr Ala Ser Thr Leu Val Ser Pro 205
 195 200 205
 Thr Val Ser Met Leu Leu Leu Met Gln Gln Met Phe Arg Arg Arg His 220
 210 215 220
 Ser Gln Leu Pro Ile Lys Ile Gly Gln Gln Ile Ala Trp Asn Asp Arg 235
 225 230 240
 Phe Ser Ser Thr Leu Ser Ser Arg Glu Met Ala Glu Gln Cys Arg Gln 250
 245 250 255
 His Val Ile Arg Leu Gly Lys Gly Leu Pro Gly Val Phe Lys Thr Gln 265
 260 270
 Cys Ala Ile Ala Arg Pro Glu Asp Arg Ala Thr Leu Lys Arg Glu Leu 280
 275 285
 Ala Gln Ala Glu Cys Leu Gly Lys Thr Ser Asp Gly Lys Ala Ile Tyr 290
 295 300
 Leu Trp Gln Arg Asn Gly Gln Glu Glu Ala Pro Leu Leu Arg Glu Leu 310
 305 315 320
 Gly Arg Leu Arg Glu Ile Ala Phe Arg Ala Val Glu Glu Gly Ser Gly 325
 330 335
 Lys Arg Arg Asp Thr Asp Ser Tyr Asp Asp Tyr Leu His Leu Ile 340
 345 350
 Leu Trp Asp Asp Asp Asp Leu Glu Ile Val Gly Ala Tyr Arg Phe Met 355
 360 365
 Pro Thr Ala Met Gln Val Glu Lys Arg Gly Val Glu Gly Leu Tyr Ser 370
 375 380
 Tyr Ser Leu Phe His Tyr Asp Glu Lys Met Gln Asp Ile Leu Glu His 385
 390 395 400
 Gly Ile Glu Leu Gly Arg Ser Phe Ile Gln Pro Arg Tyr Trp Gly Arg 405
 410 415
 Arg Gly Leu Asp Tyr Leu Trp Ser Gly Ile Gly Ala Tyr Leu Ala Arg 420
 425 430
 Tyr Pro His Tyr Arg Tyr Leu Phe Gly Pro Val Ser Ile Ser Gly Gly 435
 440 445
 Leu Pro Pro Ala Ala Arg Asp Leu Leu Val Ala Phe Tyr Arg Leu Trp 450
 455 460
 Phe Pro Ala Thr His Pro Leu Ala Ala Ser Arg Gln Pro Tyr Pro Ala 465
 470 475 480
 Ser Leu Pro Asp Val Leu Ala Gln Phe Gly Gly Val Asp Tyr Val Asp 485
 490 495
 Asp Leu Thr Lys Leu Lys Ser Leu Leu Gly Asn Leu Gly Cys Gly Ile 500
 505 510
 Pro Pro Leu Tyr Lys Gln Tyr Ser Glu Leu Cys Glu Pro Gly Gly Val 515
 520 525
 Gln Phe Val Asp Phe Gly Ser Asp Pro Ala Phe Asn Asn Cys Ile Asp 530
 535 540
 Gly Leu Val Leu Val Asp Leu Cys Tyr Leu Lys Ala Asn Arg Tyr Gln 545
 550 555 560
 Arg Tyr Ile Glu Ala His Leu Ile Pro Ser Pro Leu Pro Ser Pro 565
 570 575

<210> 8408

<211> 292

<212> FRT

<213> Enterobacter cloacae

<400> 8408

Arg Arg Arg Asn Thr Lys Cys Asp Ala Gln Met Leu Ile His Thr Ala
 1 5 10 15
 Thr Thr Ala Lys Pro Glu Met Ala Asp Ser Ala Thr Asn Thr Val Ser

20 25 30
 Gly Ala Thr Leu Glu Asn Ser Ala Ser Thr Pro Pro Ser Met Glu
 35 40 45
 Thr Glu Ser Ala Val Ser Gly Thr Pro Phe Leu Leu Thr Arg Ala Lys
 50 55 60
 Gln Arg Gly Ser Val Phe Ser Leu Asp Arg Asp His Ser Ile Arg Pro
 65 70 75 80
 Glu Ala Tyr Arg Pro Glu Phe Ala Ala Glu Arg Ile Ala Val Arg Ile
 85 90 95
 Thr Lys Leu Lys Ile Ser Ala Ala Tyr Gly Met Pro Thr Phe Ser Asn
 100 105 110
 Thr Ser Thr Asn Gly Leu Phe Ser Thr Pro Ala Cys Cys Met Gly Ile
 115 120 125
 Ser Ala Ala Ser Thr Asn Thr Val Pro Ile Lys Lys Met Met Ser Arg
 130 135 140
 Ala Met Val Val Arg Ile Ala Thr Gly Ile Thr Leu Cys Gly Phe Ser
 145 150 155 160
 Val Ser Pro Ala Ala Met Pro Ile Ser Ser Val Pro Glu Lys Ala Lys
 165 170 175
 Leu Thr Ala Thr Met Val Ile Arg Ile Gly Arg Pro Pro Cys Gly Asn
 180 185 190
 Gln Pro Ser Ala Val Met Leu Leu Lys Pro Gly Ala Gly Glu Pro Ser
 195 200 205
 Cys Ile Gly Ile Lys Pro Lys Ile Ala Ala Pro Pro Arg Ile Met Lys
 210 215 220
 Ala Met Met Val Met Thr Phe Thr Ser Glu Asn Gln Asn Ser Pro Ser
 225 230 235 240
 Ala Lys Lys Arg Val Glu Ile Thr Leu Arg Ala Lys Ile Thr Thr Gln
 245 250 255
 Lys Thr Thr His His Val Gln Thr Gly Thr Cys Gly Asn Gln Tyr Cys
 260 265 270
 Ile Gln Asn Pro Ala Ala Val Lys Leu Asp Pro Ser Ala Thr Val Gln
 275 280 285
 Val Asn Gln
 290

<210> 8409

<211> 385

<212> PR1

<213> Enterobacter cloacae

<400> 8409

1 Ser Ser Ile Val Asp Thr Val Ser Ser Ser Pro Gly Leu Thr Met
 5 10 15
 Arg Phe Asn Gly Leu Thr Lys Gly Phe Phe Ile Leu Ile Leu Ala Leu
 20 25 30
 Val Thr Trp Ala Phe Phe Asp Val Leu Ser Pro Tyr Phe Ser Ala Ile
 35 40 45
 Leu Trp Ala Ala Ile Leu Thr Ile Ile Phe Asn Pro Val Lys Asn Lys
 50 55 60
 Leu Arg Thr Ala Leu Gly Asp Arg Asn Gly Leu Ala Ser Leu Leu Thr
 65 70 75 80
 Leu Gly Ile Ile Cys Leu Ile Val Phe Ile Pro Leu Met Val Ile Leu
 85 90 95
 Ser Ser Leu Ala Val Glu Leu Asn Met Val Tyr Thr Lys Leu Gln Gln
 100 105 110
 Asn Asn Thr Gln Phe Pro Glu Val Ile Ala Gly Ile Phe Asn Arg Leu
 115 120 125
 Pro Asp Trp Ala Ser Gly Phe Leu Ala Asp His Asn Leu Thr Asn Ala
 130 135 140
 Ala Gln Ile Gln Lys Lys Leu Ser Asp Val Ala Leu Gln Gly Gly Gln

145 150 155 160
 Tyr Leu Ala Gly Ser Ala Phe Leu Ile Gly Lys Gly Thr Phe Gly Phe
 165 170 175
 Ala Ile Ser Phe Gly Ile Met Leu Tyr Leu Leu Phe Phe Leu Leu Lys
 180 185 190
 Asp Gly Pro Tyr Leu Val Arg Gln Ile Leu Asp Ser Leu Pro Leu Ser
 195 200 205
 Asp Phe Val Lys Gln His Leu Phe Ala Lys Phe Val Gly Val Ser Arg
 210 215 220
 Ala Thr Val Lys Gly Thr Ala Val Val Ala Val Val Gln Gly Thr Leu
 225 230 235 240
 Gly Gly Ile Ala Phe Ala Ile Val Gly Ile Asp Gly Ser Val Leu Trp
 245 250 255
 Gly Ala Leu Met Ala Phe Leu Ser Leu Val Pro Ala Val Gly Ser Ala
 260 265 270
 Ile Val Trp Val Pro Ala Ala Ile Phe Leu Phe Ala Thr His Gln Leu
 275 280 285
 Trp Gln Gly Leu Phe Ile Val Gly Phe Phe Val Ile Ile Val Gly Leu
 290 295 300
 Val Asp Asn Leu Leu Arg Pro Leu Leu Val Gly Lys Asp Thr Lys Met
 305 310 315 320
 Pro Asp Tyr Leu Ile Leu Ile Thr Thr Leu Gly Gly Met Glu Leu Tyr
 325 330 335
 Gly Ile Asn Gly Phe Val Ile Gly Pro Leu Ile Ala Ala Leu Phe Ile
 340 345 350
 Ala Cys Trp Asn Leu Phe Ser Gly Arg Asp His Ala Gly Asn Ala Glu
 355 360 365
 Glu Leu Asp Ala Asp Phe Ile Glu Glu Gly Lys Asn Pro Pro Asp Leu
 370 375 380

385

<210> 8410

<211> 607

<212> PRT

<213> Enterobacter cloacae

<400> 8410

Thr Leu Phe His Ile Cys Arg Arg Arg Ile Gln Gln Val Arg Ile Ala
 1 5 10 15
 Thr Ile Thr Asn Trp Ala Tyr Gly Val Thr Val Cys Leu Thr Ile Ala
 20 25 30
 Ser Gly Ile Val Met Leu Met Ala Ser His Ala Asp Asn Val Glu Arg
 35 40 45
 Gln Ala Val Lys Gln Arg Gln Ile Phe Asp Gln Leu Thr Glu Glu Ile
 50 55 60
 Glu Ala Glu Thr Trp Met Leu Ser Asp Leu Ala Arg Leu Tyr Ala Ile
 65 70 75 80
 Lys Lys Glu Pro Asp Val Leu Lys Thr Tyr Gln Ala Lys Glu Gly Glu
 85 90 95
 Leu Lys Asn Ile Glu Arg Lys Leu Gly Gln Leu Lys Asp Thr Gly Ala
 100 105 110
 Thr Gly Glu Glu Leu Ala Leu Tyr Glu Gly Leu Lys Ile Val Asp
 115 120 125
 Asp Leu Gln Asp Glu Gln Gln Ala Ala Ile Ala Ser Val Ala Arg Gly
 130 135 140
 Glu Glu Gln Gln Ala Ile Ala Leu Leu Phe Gly Lys Ile Tyr Glu Leu
 145 150 155 160
 Glu Met Glu Arg Ala Gln Ser Lys Ile Asp His Phe Arg Val Leu Leu
 165 170 175
 Asp Lys Arg Ile Ile Ala Asp Val Gln Ala Ala Thr Asn Thr Ser Lys

<400> 8411
Thr Thr Phe Ala Leu Ser Leu Ile Ile Val Glu Glu Arg Met Met Asp

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1           5           10           15
Ile Pro Arg Ile Phe Thr Val Ser Glu Ser Glu His Arg Ile His Asn
20           25           30
Pro Phe Thr Glu Glu Lys Tyr Ala Thr Leu Gly Arg Val Leu Arg Met
35           40           45
Lys Pro Gly Thr Arg Ile Leu Asp Leu Gly Ser Gly Ser Gly Glu Met
50           55           60
Leu Cys Thr Trp Ala Arg Asp Tyr Gly Ile Thr Gly Thr Gly Ile Asp
65           70           75           80
Met Ser Gln Leu Phe Thr Ala Gln Ala Thr Leu Arg Ala Glu Glu Leu
85           90           95
Gly Val Ser Glu Arg Val His Phe Ile His Asn Asp Ala Ala Gly Tyr
100          105          110
Val Ala Asn Glu Lys Cys Asp Val Ala Ala Cys Val Gly Ala Thr Trp
115          120          125
Ile Ala Gly Gly Val Ala Gly Thr Met Asp Leu Leu Ala Lys Ser Leu
130          135          140
Lys Pro Gly Gly Ile Met Leu Ile Gly Glu Pro Tyr Trp Arg Gln Val
145          150          155          160
Pro Ala Thr Glu Glu Thr Ala Gln Ala Cys Gly Val Ser Ser Ile Thr
165          170          175
Asp Phe Leu Thr Leu Pro Gly Leu Val Ala Ser Phe Asp Gln Gln Gly
180          185          190
Tyr Asp Leu Val Glu Met Val Leu Ala Asp Gln Glu Gly Trp Asp Arg
195          200          205
Tyr Glu Ala Ala Lys Trp Met Thr Met Arg Arg Trp Leu Glu Glu Asn
210          215          220
Pro Asp Asp Asp Phe Ala Gln Glu Val Arg Ala Glu Leu Thr Ile Ala
225          230          235          240
Pro Glu Arg His Val Thr Tyr Thr Arg Glu Tyr Phe Gly Trp Gly Val
245          250          255
Phe Ala Leu Met Ala Arg
260

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<210> 8412

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 8412

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Thr Asp Leu Phe Leu Ser Arg Ala Pro Leu Gln His Pro Ser Lys Tyr
1           5           10           15
Tyr Gly Arg Arg Pro Arg Asn Pro Pro Gly Ile Val Val Cys Tyr Trp
20           25           30
Leu Phe Val Arg Leu Glu Glu Ser Glu Met Ala Lys Gln Arg Val Gly
35           40           45
Ile Val Phe Gly Gly Lys Ser Ala Glu His Glu Val Ser Leu Gln Ser
50           55           60
Ala Lys Asn Ile Val Asp Ala Ile Asp Lys Ser Arg Phe Asp Val Val
65           70           75           80
Leu Leu Gly Ile Asp Lys Gln Gly Gln Trp His Val Asn Asp Ala Ser
85           90           95
Gln Tyr Leu Leu His Ala Asp Asp Pro Ala His Ile Ala Leu Asn Pro
100          105          110
Ser Asp Ile Ser Val Ala Thr Val Pro Gly Val Val Gln Gly Gln Leu
115          120          125
Ile Asp Ala Gly Asn Ala Gln Ala Leu Ala Gln Ile Asp Val Val Phe
130          135          140
Pro Ile Val His Gly Thr Leu Gly Glu Asp Gly Ser Leu Gln Gly Met
145          150          155          160
Leu Arg Met Ala Asn Leu Pro Phe Val Gly Ser Asp Val Leu Gly Ser

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165 170 175
 Ala Ala Cys Met Asp Lys Asp Val Thr Lys Arg Leu Leu Arg Asp Ala
 180 185 190
 Gly Leu Asn Ile Ala Pro Phe Val Ala Leu Thr Arg Ala Asn Arg Asp
 195 200 205
 Lys His Ser Phe Ala Gln Ile Gln Ala Gln Leu Gly Leu Pro Leu Phe
 210 215 220
 Val Lys Pro Ala Asn Gln Gly Ser Ser Val Gly Val Ser Lys Val Thr
 225 230 235 240
 Ser Glu Ala Gln Phe Asn Glu Ala Val Arg Leu Ala Phe Glu Phe Asp
 245 250 255
 His Lys Val Val Val Glu Gln Gly Ile Asn Gly Arg Glu Ile Glu Cys
 260 265 270
 Ala Val Leu Gly Asn Asp Phe Pro Gln Ala Ser Thr Cys Gly Glu Val
 275 280 285
 Val Leu Asn Ser Asp Phe Tyr Ser Tyr Asp Thr Lys Tyr Ile Asp Asp
 290 295 300
 Lys Gly Ala Gln Val Val Val Pro Ala Ala Leu Asp Pro Asp Val Asn
 305 310 315 320
 Asp Lys Ile Arg Ala Ile Ala Val Glu Ala Tyr Gln Ala Leu Gly Cys
 325 330 335
 Cys Gly Met Ala Arg Val Asp Val Phe Leu Thr Pro Asp Asn Glu Val
 340 345 350
 Val Ile Asn Glu Ile Asn Thr Leu Pro Gly Phe Thr Asn Ile Ser Met
 355 360 365
 Tyr Pro Lys Leu Trp Gln Ala Ser Gly Ile Ser Tyr Pro Glu Leu Ile
 370 375 380
 Thr Arg Leu Ile Glu Leu Ala Leu Glu Arg His Ala Ala Asp Ser Ala
 385 390 395 400
 Leu Lys Ser Ser Val Asn
 405

<210> 8413

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 8413

Thr Lys Tyr Met Gln Arg Ile Leu Val Asp Phe Glu Asn Leu Lys Asp
 1 5 10 15
 Asn Phe Ser Lys Thr Pro Leu Pro Ala Phe Arg Tyr Thr Ile Pro Leu
 20 25 30
 Cys Ser Thr Asn Ile Arg His Thr Met Thr Asp Leu Ile Ala Arg Pro
 35 40 45
 Arg Arg Leu Arg Lys Ser Pro Ala Leu Arg Ala Met Phe Glu Glu Thr
 50 55 60
 Thr Leu Thr Leu Asn Asp Leu Val Leu Pro Ile Phe Val Glu Glu Glu
 65 70 75 80
 Ile Asp Asp Tyr Lys Ala Ile Asp Ala Met Pro Gly Val Met Arg Ile
 85 90 95
 Pro Glu Lys His Leu Ala Arg Glu Ile Glu Arg Ile Ala Asn Ala Gly
 100 105 110
 Ile Arg Ser Val Met Thr Phe Gly Ile Ser His His Thr Asp Ala Thr
 115 120 125
 Gly Ser Asp Ala Trp Lys Glu Asp Gly Leu Val Ala Arg Met Ser Arg
 130 135 140
 Ile Cys Lys Glu Ser Val Pro Glu Met Ile Val Met Ser Asp Thr Cys
 145 150 155 160
 Phe Cys Glu Tyr Thr Ser His Gly His Cys Gly Val Leu Cys Asp His
 165 170 175
 Gly Val Asp Asn Asp Ala Thr Leu Leu Asn Leu Gly Lys Gln Ala Val

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      180      185      190
Val Ala Ala Ala Gly Ala Asp Phe Ile Ala Pro Ser Ala Ala Met
      195      200      205
Asp Gly Gln Val Gln Ala Ile Arg His Ala Leu Asp Ala Ala Gly Phe
      210      215      220
Thr Asp Thr Ala Ile Met Ser Tyr Ser Thr Lys Phe Ala Ser Ser Phe
      225      230      235      240
Tyr Gly Pro Phe Arg Glu Ala Ala Gly Thr Ala Leu Lys Gly Asp Arg
      245      250      255
Lys Thr Tyr Gln Met Asn Pro Leu Asn Arg Arg Glu Ala Ile Arg Glu
      260      265      270
Ser Leu Leu Asp Glu Ala Gln Gly Ala Asp Cys Leu Met Val Lys Pro
      275      280      285
Ala Gly Ala Tyr Leu Asp Ile Leu Arg Asp Ile Arg Glu Arg Thr Glu
      290      295      300
Leu Pro Leu Gly Ala Tyr Gln Val Ser Gly Glu Tyr Ala Met Ile Lys
      305      310      315      320
Phe Ala Ala Gln Ala Gly Ala Ile Asp Glu Glu Lys Val Ile Leu Glu
      325      330      335
Ser Leu Gly Ala Ile Lys Arg Ala Gly Ala Asp Leu Ile Phe Ser Tyr
      340      345      350
Phe Ala Leu Asp Leu Ala Glu Lys Lys Ile Leu Arg
      355      360      365

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<210> 8414

<211> 653

<212> PRT

<213> Enterobacter cloacae

<400> 8414

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Ile Val Val Gln Glu Asn Ile Met Asn Arg Ile Leu Val Gly Ile Ile
1      5      10      15
Phe Ser Leu Phe Ile Thr Thr Gly Tyr Ile Ala Phe Leu Val Tyr Asp
      20      25      30
Arg Gln Gln Glu Leu Gln Lys Leu Thr His Tyr Thr Glu Ser Trp Ser
      35      40      45
Val Ala Gln Leu Val Ser Glu Tyr Tyr Arg Phe Glu Ser Trp Ile Gly
      50      55      60
Leu Tyr Ala Thr Glu Thr Asp Asp Val Thr Val Asp Gln Val Arg Met
      65      70      75      80
Arg Leu Glu Ile Met Leu Ser Gln Asn Asp Leu Leu Lys Glu Gly Gly
      85      90      95
Leu Gly Arg Tyr Ile Asn Ser Glu Lys Ala His Gln Ala Leu Ala Leu
      100      105      110
Arg Leu Glu Asn Ile Leu Asn Tyr Leu Asp Gly His Leu Glu Lys Met
      115      120      125
Ser Arg Ser Glu Leu Lys Leu Tyr Leu Asn Asn Met His Ser Leu Asp
      130      135      140
Ala Pro Leu Ser Gln Leu Ser Ser Thr Ala Leu Thr Lys Asp Val Asn
      145      150      155      160
Thr Ile Asn Glu Thr Asn Leu Lys Ile Gln Val Leu Tyr Tyr Ile Tyr
      165      170      175
Ser Ala Leu Ser Leu Leu Leu Val Ile Leu Ser Phe Ile Leu Gly Phe
      180      185      190
Leu Ile Ile Tyr Gln Asn Lys Asn Ile Leu Lys Ala His Met Gln Val
      195      200      205
Lys Thr Leu Ala Glu Glu Leu Gln Leu Ser Lys Glu Thr Leu Gln Ile
      210      215      220
Gln Asn Thr Lys Leu Glu Tyr Asp Val Tyr His Asp Ser Leu Thr Gly
      225      230      235      240
Met Lys Asn Arg Leu Phe Phe Trp Asp Asp Leu Asn Lys Leu Asn Leu

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245 250 255
 Gln Ala Glu Lys Lys His Ile Ser Val Thr Val Met Leu Phe Asp Leu
 260 265 270
 Asp Arg Phe Lys Glu Val Asn Asp Thr Tyr Gly His Asp Thr Gly Asp
 275 280 285
 Leu Leu Leu Arg Glu Val Ser Thr Arg Leu Asn Ala Leu Gly Arg Phe
 290 295 300
 Ser Glu Thr Phe Tyr Arg Leu Gly Gly Asp Glu Phe Ala Phe Leu Ser
 305 310 315 320
 Ser Gly Leu Thr Glu Thr Ala Ala Val Ser Arg Ala Arg Glu Ile Ser
 325 330 335
 Asp Ser Ile Ser Lys Pro Tyr Thr Ile Asn Asn Gln Leu Ile Lys Ile
 340 345 350
 Ala Thr Cys Val Gly Ile Val Leu Ser Asp Asn Glu Arg Arg Ser Asp
 355 360 365
 Tyr Leu Tyr Lys Phe Ala Asp Leu Ala Leu Tyr Glu Ala Lys Lys Glu
 370 375 380
 Gly Ser Gln Gln Ile Lys Val Phe Arg Gln Arg Met Leu Gln Lys Leu
 385 390 395 400
 Gln Glu Ser Arg Thr Leu Glu Asn Asp Met Ala Arg Ala Ile Glu Asn
 405 410 415
 Asp Glu Phe Val Tyr Tyr Gln Pro Ile Val Asn Ser Val Ser Lys
 420 425 430
 Glu Ile Tyr Gly Tyr Glu Ala Leu Ile Arg Trp Met His Pro Val Lys
 435 440 445
 Gly Met Leu Ala Pro Asp Ser Phe Ile Phe Ala Ala Glu Lys Thr Gly
 450 455 460
 Met Ile Asn Glu Ile Gly Lys Thr Val Leu Lys Leu Ala Cys Arg Glu
 465 470 475 480
 Ala Val Ser Trp Thr Val Pro Ala Arg Ile Ser Val Asn Val Ser Pro
 485 490 495
 Val Gln Leu Gly Ser Lys Ser Phe Ile Asn Thr Val Gln Ser Val Leu
 500 505 510
 Ala Glu Thr Gly Leu Pro Ala Asn Arg Leu Glu Leu Glu Val Thr Glu
 515 520 525
 Ser Ser Leu Phe Ser Asp Arg Asn Asn Pro Ile Ala Ile Leu Lys Lys
 530 535 540
 Leu Arg Ala Leu Gly Val Arg Ile Ser Ile Asp Asp Phe Gly Thr Gly
 545 550 555 560
 Tyr Ser Ser Leu Ser Arg Leu Ser Glu Leu Asn Phe Asp Lys Ile Lys
 565 570 575
 Ile Asp Lys Ser Phe Val Asn Pro Ile Ser Thr Gln Glu Asp Ala Leu
 580 585 590
 Asn Ile Val Lys Leu Ile Thr Gly Met Ala Lys Ser Leu Asn Met Gly
 595 600 605
 Val Ile Ala Glu Gly Val Glu Thr Glu Glu Gln Leu Glu Arg Leu Gln
 610 615 620
 Ala Leu Gly Cys Glu Leu Val Gln Gly Tyr Leu Phe Ser Lys Pro Gln
 625 630 635 640
 Pro Gln Val Asp Ser Lys Ile Lys Ser Gly Gln Glu
 645 650

<210> 8415

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 8415

Ser Asn Ser Phe Ser Met Met Phe Asp Asn Ser Gly Asp Ile Thr Pro
 1 5 10 15
 Pro Cys Gly Thr Pro Ser Leu Ala Ala Arg Lys Arg Pro Thr Ser Ile

					20						25						30
Cys	Pro	Ala	Leu	Met	Val	Phe	His	Ser	Arg	Val	Met	Lys	Arg	Ala	Ser		
					35						40						45
Leu	Ile	Leu	Arg	Arg	Thr	Ala	Phe	Ile	Ser	Ser	Arg						
					50						55						60

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<210> 8416
<211> 148
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 8417
<211> 141
<212> PRT
<213> Enterobacter cloacae
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<400> 8417																	
Thr	Leu	Leu	Pro	Arg	Cys	Phe	Ala	Tyr	Met	Ser	Lys	His	Leu	Arg	Pro		
				5					10					15			
Ala	Val	Leu	Thr	Tyr	His	Cys	Gln	Phe	Leu	Leu	His	Gly	Leu	Ser	Asp		
			20					25					30				
His	Val	Gly	Arg	Gly	Asp	Val	Phe	Asn	Pro	Gln	Arg	Arg	Ile	Asn	Gly		
		35				40						45					
Phe	Met	Phe	Phe	Ser	Leu	Ser	Val	Leu	Asn	Leu	Glu	Asp	His	Leu	Gly		
	50					55					60						
Leu	Val	Ile	Ser	Pro	Gln	Ser	Pro	Leu	Ser	Ala	Gly	Tyr	Ile	Thr	Leu		
	65				70					75					80		
Arg	Ala	Cys	Arg	Arg	Ser	Leu	Pro	Leu	Arg	Phe	Ser	Thr	Val	Thr	Pro		
				85					90					95			
Gly	Gly	Ile	Val	Gly	Phe	Leu	Ile	Val	Ser	Tyr	Arg	Phe	Asn	Ile	Pro		
			100					105					110				
Asp	Arg	Leu	Ala	Val	His	Leu	Ser	Ile	His	Ala	Arg	Pro	Glu	Leu	Arg		
		115					120					125					
Ala	His	Tyr	Thr	Ser	His	Arg	Arg	Thr	Thr	Pro	Asp						
	130					135					140						

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<210> 8418
<211> 174
<212> PRT
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<213> Enterobacter cloacae

<400> 8418

Asn Gly Lys Arg His Ile Lys Lys Gly Tyr Arg Ala Phe Asp Val Arg
 1 5 10 15
 Leu Pro Glu Gln Phe Ser Leu Ile Glu Lys Leu Arg Ala Gln Tyr Pro
 20 25 30
 Val Val Thr Leu Cys Gln Val Phe Gly Val His Arg Ser Ser Tyr Lys
 35 40 45
 Tyr Trp Val Lys Ser Pro Glu Lys Pro Asp Gly Lys Arg Ala Val Leu
 50 55 60
 Arg Ser Gln Val Leu Glu Leu His Asn Ile Ser His Gly Ser Ala Gly
 65 70 75 80
 Ala Arg Ser Ile Ala Ile Met Ala Thr Leu Arg Gly Phe Arg Met Gly
 85 90 95
 Arg Trp Leu Ala Gly Arg Leu Met Lys Glu Leu Gly Leu Val Ser Cys
 100 105 110
 Gln Gln Pro Thr His Arg Tyr Lys Arg Gly Gly His Glu His Ile Ala
 115 120 125
 Ile Pro Asn His Leu Glu Arg Gln Phe Ala Val Thr Glu Ser Asn Gln
 130 135 140
 Val Trp Cys Gly Asp Val Thr Tyr Ser Val Pro Gly Val Gln Gly Gly
 145 150 155 160
 His Gly Cys Leu Asn Glu Pro Arg Val Cys Leu Glu Tyr
 165 170

<210> 8419

<211> 510

<212> PRT

<213> Enterobacter cloacae

<400> 8419

Arg Pro Leu Ile Ile Ser Glu Met Gln Arg Lys Leu Ala Thr Trp Ala
 1 5 10 15
 Ala Thr Asp Pro Ser Leu Arg Ile Gln Arg Leu Leu Arg Leu Ile Thr
 20 25 30
 Gln Pro Glu Trp Leu Ala Glu Ala Ala Arg Ile Thr Leu Ser Ser Lys
 35 40 45
 Gly Ala His Thr Pro Gly Val Asp Gly Val Asn Lys Thr Met Leu Gln
 50 55 60
 Ala Arg Leu Ala Val Glu Leu Gln Ile Leu Arg Asp Glu Leu Leu Ser
 65 70 75 80
 Gly His Tyr Gln Pro Leu Pro Ala Arg Arg Val Tyr Ile Pro Lys Ser
 85 90 95
 Asn Gly Lys Leu Arg Pro Leu Gly Ile Pro Ala Leu Arg Asp Arg Ile
 100 105 110
 Val Gln Arg Ala Met Leu Met Ala Met Glu Pro Ile Trp Glu Ser Asp
 115 120 125
 Phe His Thr Leu Ser Tyr Gly Phe Arg Pro Glu Arg Ser Val His His
 130 135 140
 Ala Ile Arg Thr Val Lys Leu Gln Leu Thr Asp Cys Gly Glu Thr Arg
 145 150 155 160
 Gly Arg Trp Val Ile Glu Gly Asp Leu Ser Ser Tyr Phe Asp Thr Val
 165 170 175
 His His Arg Leu Leu Met Lys Ala Val Arg Arg Arg Ile Ser Asp Ala
 180 185 190
 Arg Phe Met Thr Leu Leu Trp Lys Thr Ile Lys Ala Gly His Ile Asp
 195 200 205
 Val Gly Leu Phe Arg Ala Ala Ser Glu Gly Val Pro Gln Gly Gly Val
 210 215 220
 Ile Ser Pro Leu Leu Ser Asn Ile Met Leu Asn Glu Phe Asp Gln Tyr

225 230 235 240
 Leu His Glu Arg Tyr Leu Ser Gly Lys Ala Arg Lys Asp Arg Trp Tyr
 245 250 255
 Trp Asn Asn Ser Ile Gln Arg Gly Arg Ser Thr Ala Val Arg Glu Asn
 260 265 270
 Trp Gln Trp Lys Pro Ala Val Ala Tyr Cys Arg Tyr Ala Asp Asp Phe
 275 280 285
 Val Leu Ile Val Lys Gly Thr Lys Ala Gln Ala Glu Ala Ile Arg Glu
 290 295 300
 Glu Cys Arg Gly Val Leu Glu Gly Ser Leu Lys Leu Arg Leu Asn Met
 305 310 315 320
 Asp Lys Thr Lys Ile Thr His Val Asn Asp Gly Phe Ile Phe Leu Gly
 325 330 335
 His Arg Ile Ile Arg Lys Arg Ser Arg Tyr Gly Glu Met Arg Val Val
 340 345 350
 Ser Thr Ile Pro Gln Glu Lys Ala Arg Asn Phe Ala Ala Ser Leu Thr
 355 360 365
 Ala Leu Leu Ser Gly Asn Tyr Ser Glu Ser Lys Val Asp Met Ala Glu
 370 375 380
 Gln Leu Asn Arg Lys Leu Lys Gly Trp Ala Met Phe Tyr Gln Phe Val
 385 390 395 400
 Asp Phe Lys Ala Lys Val Phe Ser Tyr Ile Asp Arg Val Val Phe Trp
 405 410 415
 Lys Leu Ala His Trp Leu Ala Arg Lys Tyr Arg Thr Gly Ile Ala Ser
 420 425 430
 Leu Met Arg Trp Trp Cys Lys Ser Pro Lys Pro Gly Gln Ser Lys Thr
 435 440 445
 Trp Val Leu Phe Gly Lys Thr Asn His Gly Lys Leu Ser Gly Glu Ile
 450 455 460
 Leu Tyr Arg Leu Val Gly Gln Gly Lys Lys Leu Phe Arg Trp Arg Leu
 465 470 475 480
 Pro Glu Gly Asn Pro Tyr Leu Arg Thr Glu Thr Arg Asn Thr Tyr Thr
 485 490 495
 Ser Arg Phe Thr Glu Val Ala Met Ala Phe Ala Ser Ile
 500 505 510

<210> 8420

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 8420

Gly Arg Met Thr Ile Thr Val Gly Tyr Pro Gln Thr Asn Arg Lys Thr
 1 5 10 15
 Asp Thr Gly Lys Thr Leu Lys Pro Trp Pro Val Leu Val Asp His Phe
 20 25 30
 Lys Gln Leu Asn Pro Ser Met Leu His Phe Leu Ala Glu Cys Leu Thr
 35 40 45
 Leu Ser Val Glu Arg Arg His Asn Pro Lys Gly Tyr Thr Ala Ser Val
 50 55 60
 Met Leu Ser Arg His
 65 70

<210> 8421

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 8421

Cys Gly Thr Gly Arg Asp Arg Ser Asp Arg Arg Asp Arg Leu Trp Ile
 1 5 10 15

Arg Thr Gly Thr Ala Arg Ala Thr Ala Leu Ala Trp
 20 25 30
 Arg Asn Thr Met Ser Glu Arg Leu Thr Ile Ile Pro Leu Gly Pro Tyr
 35 40 45
 Ile Gly Ala Gln Val Ser Gly Leu Asp Val Thr Arg Pro Leu Ser Asp
 50 55 60
 Asn Gln Phe Glu Gln Leu Tyr His Ala Val Leu Arg His Gln Val Val
 65 70 75 80
 Phe Leu Arg Glu Gln Ala Ile Thr Pro His Gln Arg Ala Leu Ala
 85 90 95
 Leu Arg Phe Gly Asp Leu His Ile His Pro Val Tyr Pro His Ala Glu
 100 105 110
 Gly Val Glu Glu Ile Ile Val Leu Asp Thr His Asn Asp Asn Pro Pro
 115 120 125
 Asp Asn Asp Asn Trp His Thr Asp Val Thr Phe Ile Asp Thr Pro Pro
 130 135 140
 Ala Gly Ala Ile Leu Ala Ala Lys Leu Leu Pro Glu Thr Gly Gly Asp
 145 150 155 160
 Thr Leu Trp Ala Ser Gly Ile Ala Ala Phe Glu Ala Leu Ser Ala Pro
 165 170 175
 Leu Gln Thr Leu Leu Ser Gly Leu Arg Ala Glu His Asp Phe Lys Lys
 180 185 190
 Ser Phe Gln Glu Tyr Lys Tyr Arg Lys Thr Glu Glu Glu His Gln Arg
 195 200 205
 Trp Leu Asp Ala Val Glu Lys His Pro Pro Leu Leu His Pro Val Val
 210 215 220
 Arg Thr His Pro Val Thr Gly Lys Gln Ala Leu Phe Val Asn Glu Gly
 225 230 235 240
 Phe Thr Thr Arg Ile Val Asp Val Ala Glu Lys Glu Ser Glu Ala Leu
 245 250 255
 Leu Gly Phe Leu Phe Ala His Ile Thr Lys Pro Glu Phe Gln Val Arg
 260 265 270
 Trp Arg Trp Gln Glu Asn Asp Leu Ala Ile Trp Asp Asn Arg Val Thr
 275 280 285
 Gln His Tyr Ala Asn Ala Asp Tyr Leu Pro Gln Arg Arg Ile Met Gln
 290 295 300
 Arg Ala Thr Ile Leu Gly Asp Lys Pro Phe Tyr Arg Ala Val
 305 310 315

<210> 8422

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 8422

Gly Met Lys Leu Gly Tyr Asp Trp Lys Pro Asn Leu Ser Gly Tyr Val
 1 5 10 15
 Thr Pro Tyr Ala Ala Ile Ser Gly Leu Phe Gln Ser Arg Asp Glu Tyr
 20 25 30
 Gln Leu Ser Asn Asp Met Arg Ile Asp Gly Gln Ser Tyr Asp Ser Met
 35 40 45
 Arg Tyr Glu Val Gly Val Asp Ala Gly Tyr Thr Phe Asn Thr Gly Gly
 50 55 60
 Glu Gln Ala Leu Thr Pro Tyr Phe Lys Leu Ala Tyr Val Tyr Asp Asp
 65 70 75 80
 Ala Asp Asn Asn Ala Asp Ile Asn Asn Asp Ser Ile Asp Asn Gly Val
 85 90 95
 Glu Gly Ser Ala Val Arg Val Gly Leu Gly Thr Gln Phe Ser Phe Thr
 100 105 110
 Lys Asn Phe Ser Ala Tyr Thr Asp Ala Thr Tyr Leu Gly Gly Gly Asp
 115 120 125

Val Asp Gln Asn Trp Gly Ala Asn Leu Gly Val Lys Tyr Thr Trp
 130 135 140

<210> 8423

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 8423

Gln Gln Glu Gly Ser Thr Met Phe Lys Ser Phe Phe Pro Lys Pro Gly
 1 5 10 15
 Pro Phe Phe Leu Ser Ala Phe Ile Trp Ala Leu Leu Ala Val Ile Phe
 20 25 30
 Trp Gln Ala Gly Gly Gly Ala Trp Leu Thr Arg Leu Thr Gly Ala Thr
 35 40 45
 Gly Asp Ile Pro Ile Ser Ala Ala Arg Phe Trp Ser Met Ser Tyr Leu
 50 55 60
 Leu Phe Tyr Ala Tyr Tyr Val Leu Cys Val Gly Leu Phe Ala Met Phe
 65 70 75 80
 Trp Phe Val Tyr Ser Pro His Arg Trp Gln Tyr Trp Ser Ile Leu Gly
 85 90 95
 Thr Ser Leu Ile Ile Phe Val Thr Trp Phe Leu Val Glu Val Gly Val
 100 105 110
 Ala Val Asn Ala Trp Tyr Ala Pro Phe Tyr Asp Leu Ile Gln Thr Ala
 115 120 125
 Leu Ser Ser Pro His Lys Val Thr Ile Asn Gln Phe Tyr His Glu Val
 130 135 140
 Gly Ile Phe Leu Gly Ile Ala Leu Ile Ala Val Val Ile Gly Val Met
 145 150 155 160
 Asn Asn Phe Phe Val Ser His Tyr Val Phe Arg Trp Arg Thr Ala Met
 165 170 175
 Asn Glu His Tyr Met Ala His Trp Gln His Leu Arg His Ile Glu Gly
 180 185 190
 Ala Ala Gln Arg Val Gln Glu Asp Thr Met Arg Phe Ala Ser Thr Leu
 195 200 205
 Glu Asp Met Gly Val Ser Phe Ile Asn Ala Ile Met Thr Leu Ile Ala
 210 215 220
 Phe Leu Pro Val Leu Val Thr Leu Ser Ser His Val Pro Glu Leu Pro
 225 230 235 240
 Ile Val Gly His Leu Pro Tyr Gly Leu Val Ile Ala Ala Ile Val Trp
 245 250 255
 Ser Leu Met Gly Thr Gly Leu Leu Ala Val Val Gly Ile Lys Leu Pro
 260 265 270
 Gly Leu Glu Phe Lys Asn Gln Arg Val Glu Ala Ala Tyr Arg Lys Glu
 275 280 285
 Leu Val Tyr Gly Glu Asp Asp Ala Asn Arg Ala Ser Pro Pro Thr Val
 290 295 300
 Arg Glu Leu Phe Gly Ala Val Arg Arg Asn Tyr Phe Arg Leu Tyr Phe
 305 310 315 320
 His Tyr Met Tyr Phe Asn Ile Ala Arg Ile Leu Tyr Leu Gln Val Asp
 325 330 335
 Asn Val Phe Gly Leu Phe Leu Leu Phe Pro Ser Ile Val Ala Gly Thr
 340 345 350
 Ile Thr Leu Gly Leu Met Thr Gln Ile Thr Asn Val Phe Gly Gln Val
 355 360 365
 Arg Gly Ser Phe Gln Tyr Leu Ile Ser Ser Trp Thr Thr Leu Val Glu
 370 375 380
 Leu Met Ser Ile Tyr Lys Arg Leu Arg Ser Phe Glu Arg Glu Leu Asp
 385 390 395 400
 Asp Lys Asp Val Gln Glu Val Thr His Thr Leu Gly
 405 410

<210> 8424
 <211> 370
 <212> PRT
 <213> Enterobacter cloacae

<400> 8424
 Lys Gly Ile Ala Met Pro Phe Ala Val Pro Arg Ala Leu Pro Leu Thr
 1 5 10 15
 Leu Leu Ala Ala Phe Val Leu Ala Gly Cys Ala Glu Lys Gly Ala Ala
 20 25 30
 Pro Leu Lys Glu Gly Glu Lys Pro Val Asp Val Ala Ser Val Val Arg
 35 40 45
 Gln Lys Met Pro Ala Ser Val Lys Asp Arg Ser Glu Trp Ala Asp Ala
 50 55 60
 Leu Ala Thr Thr Phe Lys Ser Gln Lys Ile Ala Pro Thr Glu Glu Asn
 65 70 75 80
 Ile Cys Ser Val Leu Ala Val Ala Gln Gln Glu Ser Met Tyr Gln Ser
 85 90 95
 Asp Pro Val Val Pro Gly Leu Asn Lys Ile Ala Trp Lys Glu Ile Asp
 100 105 110
 Arg Arg Ala Glu Ser Met His Ile Pro Val Phe Leu Val His Thr Ala
 115 120 125
 Leu Lys Ile Thr Ser Pro Asn Gly Lys Ser Tyr Ser Glu Arg Leu Asp
 130 135 140
 Thr Val Lys Thr Glu Lys Gln Leu Ser Ala Ile Phe Asp Asp Phe Ile
 145 150 155 160
 Asn Met Val Pro Met Gly Gln Lys Leu Phe Gly Ser Leu Asn Pro Val
 165 170 175
 His Thr Gly Gly Pro Met Gln Val Ser Ile Ala Phe Ala Glu Lys His
 180 185 190
 Thr Asp Gly Tyr Pro Trp Gly Ile Asp Gly Thr Val Arg Gln Glu Val
 195 200 205
 Phe Ser Leu Arg Gly Gly Leu Trp Phe Gly Thr Tyr His Leu Leu Asn
 210 215 220
 Tyr Pro Ala Asn Tyr Asp Lys Pro Leu Tyr Arg Phe Ala Asp Phe Asn
 225 230 235 240
 Ala Gly Trp Tyr Ala Ser Arg Asn Ala Ala Phe Gln Asn Ala Val Ser
 245 250 255
 Arg Ala Ser Gly Val Lys Leu Ala Leu Asp Gly Asp Leu Ile Ala Tyr
 260 265 270
 Gly Ser Ser Glu Ala Gly Thr Thr Glu Arg Ala Val Arg Lys Leu Ser
 275 280 285
 Thr Lys Leu Glu Met Ser Asn Asn Asp Ile Arg Arg Gln Leu Glu Lys
 290 295 300
 Gly Asp Ser Leu Ala Phe Glu Lys Thr Asp Leu Tyr Lys Gln Val Phe
 305 310 315 320
 Ala Leu Ala Glu Lys Lys Ser Gly Lys Ala Leu Pro Arg Ala Ile Leu
 325 330 335
 Pro Gly Ile Gln Leu Glu Ser Pro Lys Ile Thr Arg Asn Leu Thr Thr
 340 345 350
 Ala Trp Phe Ala Lys Arg Val Asn Asp Arg Arg Ala Arg Cys Met Gly
 355 360 365
 Leu
 370

<210> 8425
 <211> 132
 <212> PRT
 <213> Enterobacter cloacae

<400> 8425

Pro His Ala Ala Gln Arg Cys Val Lys Trp Phe Thr Glu Phe Gly His
 1 5 10 15
 Leu Asn Arg Gly Asp Met Leu Ile Ser Glu Gln Tyr Arg Cys Pro Asn
 20 25 30
 Glu Lys Arg Asn Phe Ser Ala Glu Phe Lys Arg Glu Ser Ala Gln Leu
 35 40 45
 Val Leu Asp Gln Asn Tyr Thr Val Ala Ala Ala Ser Ala Met Asp
 50 55 60
 Val Gly Leu Ser Thr Met Thr Arg Trp Val Lys Gln Leu Arg Asp Glu
 65 70 75 80
 Arg Gln Gly Lys Ile Pro Lys Ala Ser Pro Ile Thr Pro Glu Gln Ile
 85 90 95
 Glu Ile Arg Glu Leu Lys Lys Lys Leu Gln Arg Ile Glu Met Glu Asn
 100 105 110
 Asp Ile Leu Lys Lys Ala Thr Ala Leu Met Ser Asp Ser Leu Asn
 115 120 125
 Ser Ser Arg
 130

<210> 8426

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 8426

Met Ser Ile Arg Leu Glu Gly Asn Met Gln Thr Glu Gln Gln Asn Gly
 1 5 10 15
 Gln Leu Lys Arg Thr Met Lys Thr Arg His Leu Ile Met Leu Ser Leu
 20 25 30
 Gly Gly Val Ile Gly Thr Gly Leu Phe Phe Asn Thr Gly Tyr Ile Ile
 35 40 45
 Ser Thr Thr Gly Ala Ala Gly Thr Leu Leu Ala Tyr Leu Ile Gly Ala
 50 55 60
 Leu Val Val Trp Leu Val Met Gln Cys Leu Gly Glu Leu Ser Val Ala
 65 70 75 80
 Met Pro Glu Thr Gly Ala Phe His Val Tyr Ala Ala Arg Tyr Leu Gly
 85 90 95
 Pro Ala Thr Gly Tyr Thr Val Ala Trp Leu Tyr Trp Leu Thr Trp Thr
 100 105 110
 Val Ala Leu Gly Ser Ser Phe Thr Ala Ala Gly Phe Cys Met Gln Tyr
 115 120 125
 Trp Phe Pro Gln Val Pro Val Trp Thr Trp Cys Val Val Phe Cys Val
 130 135 140
 Val Ile Phe Ala Leu Asn Val Ile Ser Thr Arg Phe Phe Ala Glu Gly
 145 150 155 160
 Glu Phe Trp Phe Ser Leu Val Lys Val Ile Thr Thr Ile Ala Phe Ile
 165 170 175
 Ile Leu Gly Gly Ala Ala Ile Phe Gly Phe Ile Pro Met Gln Asp Gly
 180 185 190
 Ser Pro Ala Pro Gly Leu Ser Asn Ile Thr Ala Glu Gly Trp Phe Pro
 195 200 205
 His Gly Gly Leu Pro Ile Leu Met Thr Met Val Ala Val Asn Phe Ala
 210 215 220
 Phe Ser Gly Thr Glu Leu Ile Gly Ile Ala Ala Gly Glu Thr Glu Asn
 225 230 235 240
 Pro His Lys Val Ile Pro Val Ala Ile Arg Thr Thr Ile Ala Arg Leu
 245 250 255
 Ile Ile Phe Phe Ile Gly Thr Val Phe Val Leu Ala Ala Leu Ile Pro
 260 265 270
 Met Gln Gln Ala Gly Val Glu Lys Ser Pro Phe Val Leu Val Phe Glu

275 280 285
 Lys Val Gly Ile Pro Tyr Ala Ala Asp Ile Phe Asn Phe Val Ile Leu
 290 295 300
 Thr Ala Ile Leu Ser Ala Ala Asn Ser Gly Leu Tyr Ala Ser Gly Arg
 305 310 315 320
 Met Leu Trp Ser Leu Ser Asn Glu Lys Thr Leu Pro Arg Cys Phe Ala
 325 330 335
 Arg Val Asn Lys Asn Gly Val Pro Leu Thr Ala Leu Ser Val Ser Met
 340 345 350
 Leu Gly Gly Val Leu Ala Leu Phe Ser Ser Val Val Ala Pro Asp Thr
 355 360 365
 Val Phe Val Ala Leu Ser Ala Ile Ser Gly Phe Ala Val Val Ala Val
 370 375 380
 Trp Ile Ser Ile Cys Ala Ser His Phe Val Phe Arg Arg Arg His Val
 385 390 395
 Gln Ser Gly Gln Pro Leu Ser Ala Leu Gln Tyr Arg Ala Pro Trp Tyr
 405 410 415
 Pro Leu Val Pro Val Leu Gly Phe Ile Leu Cys Leu Val Ala Cys Val
 420 425 430
 Gly Leu Trp Phe Asp Pro Ser Gln Arg Ile Ala Leu Tyr Cys Gly Leu
 435 440 445
 Pro Phe Val Ala Leu Cys Tyr Gly Ala Tyr Tyr Leu Thr Arg Asn Leu
 450 455 460
 Thr Thr Gln Glu Pro Glu His Val Ala Glu
 465 470 475

<210> 8427

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 8427

Arg Phe Phe Phe Ile Pro Leu Ser Lys Phe Ser Arg Arg Lys Tyr Cys
 1 5 10 15
 Ser His Asn Asn Lys Gly Ala Asp Ile Met Ala Ile Ser Ser Arg Ile
 20 25 30
 Thr Leu Leu Gly Ala Leu Ala Leu Trp Ala Phe Gln Ala Gln Ala Val
 35 40 45
 Asp Val Thr Val Ala Tyr Gln Thr Ser Ala Glu Pro Ala Lys Val Ala
 50 55 60
 Gln Ala Asp Asn Thr Phe Ala Lys Ala Ser Gly Ala Asn Val Asp Trp
 65 70 75 80
 Arg Lys Phe Asp Ser Gly Ala Ala Ile Val Arg Ala Leu Ala Ser Gly
 85 90 95
 Asp Val Gln Ile Gly Asn Leu Gly Ser Ser Pro Leu Ala Val Ala Ala
 100 105 110
 Ser Gln Gln Val Pro Ile Glu Val Phe Leu Leu Ala Ser Gln Leu Gly
 115 120 125
 Asn Ser Glu Ala Leu Val Val Lys Lys Ser Ile Thr Lys Pro Glu Asp
 130 135 140
 Leu Ile Gly Lys Arg Ile Ala Val Pro Phe Ile Ser Thr Thr His Tyr
 145 150 155 160
 Ser Leu Leu Ala Ala Leu Lys His Trp Gly Ile Lys Pro Gly Gln Val
 165 170 175
 Gln Ile Ile Asn Leu Gln Pro Pro Ala Ile Ile Ala Ala Trp Gln Arg
 180 185 190
 Gly Asp Ile Asp Gly Ala Tyr Val Trp Ala Pro Ala Val Asn Glu Leu
 195 200 205
 Glu Lys Glu Gly Thr Val Leu Thr Asp Ser Glu Lys Val Gly Gln Trp
 210 215 220
 Gly Ala Pro Thr Leu Asp Val Trp Val Val Arg Lys Asp Phe Ala Glu

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225          230          235          240
Lys His Pro Glu Val Val Lys Ala Phe Ala Lys Ser Ala Ile Asp Ala
          245          250          255
Gln Gln Pro Tyr Ile Ser Asn Pro Asp Glu Trp Leu Lys Gln Pro Thr
          260          265          270
Asn Leu Glu Lys Leu Ser Arg Leu Ser Gly Val Pro Glu Ala Asp Val
          275          280          285
Pro Gly Leu Val Lys Gly Asn Thr Tyr Leu Thr Pro Ala Gln Gln Val
          290          295          300
Gln Gln Leu Asn Gly Pro Val Ser Lys Ala Ile Val Asp Thr Ala Thr
305          310          315          320
Phe Leu Lys Glu Gln Gly Lys Val Pro Ala Val Ala Ala Asp Tyr Ser
          325          330          335
Gln Phe Val Thr Asp Arg Phe Val Lys
          340          345

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<210> 8428

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8428

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Ala Thr Gly Gly Val Leu Met Ser Ile Val Phe Ser Glu Lys Thr Arg
1          5          10          15
Arg Thr Arg Leu Ala Leu Arg Trp Pro Phe Ser Arg Gln Ile Thr Leu
          20          25          30
Ser Val Ser Thr Leu Val Val Leu Leu Ala Val Trp Trp Ala Val Ala
          35          40          45
Ala Gln Gln Trp Val Ser Pro Leu Phe Leu Pro Pro Gly Gln Val
          50          55          60
Leu Glu Lys Leu Ile Thr Ile Ala Gly Pro Gln Gly Phe Met Asp Ala
65          70          75          80
Thr Leu Trp Gln His Leu Gly Ala Ser Leu Thr Arg Ile Leu Val Ala
          85          90          95
Leu Leu Ala Ala Val Ile Ile Gly Val Pro Val Gly Ile Ala Met Gly
          100          105          110
Leu Ser Pro Thr Val Arg Gly Ile Leu Asp Pro Leu Ile Glu Leu Tyr
          115          120          125
Arg Pro Val Pro Pro Leu Ala Tyr Leu Pro Leu Met Val Ile Trp Phe
          130          135          140
Gly Ile Gly Glu Thr Ser Lys Ile Leu Leu Ile Tyr Leu Ala Ile Phe
145          150          155          160
Ala Pro Val Ala Met Ser Ala Leu Ala Gly Val Lys Ser Ala Gln Gln
          165          170          175
Val Arg Ile Arg Ala Ala Gln Ser Leu Gly Ala Ser Arg Ala Gln Val
          180          185          190
Leu Leu Phe Val Ile Leu Pro Gly Ala Leu Pro Glu Ile Leu Thr Gly
          195          200          205
Leu Arg Ile Gly Leu Gly Val Gly Trp Ser Thr Leu Val Ala Ala Glu
          210          215          220
Leu Ile Ala Ala Thr Arg Gly Leu Gly Phe Met Val Gln Ser Ala Gly
225          230          235          240
Glu Phe Leu Ala Thr Asp Val Val Leu Ala Gly Ile Ala Val Ile Ala
          245          250          255
Ala Ile Ala Phe Gly Leu Glu Leu Gly Leu Arg Ala Leu Gln Arg Arg
          260          265          270
Leu Thr Pro Trp His Gly Glu Ile Gln
          275          280

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<210> 8429

<211> 797

<212> PRT

<213> *Enterobacter cloacae*

<400> 8429

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Trp Thr Asn Leu Leu Thr Ser Leu Arg Arg Asp Asp Pro Met Gln Thr
1      5      10
Trp Lys Lys Lys Leu Val Val Ser Gln Leu Ala Leu Ala Cys Thr Leu
20      25      30
Ala Ile Ala Ser Gln Ala Asn Ala Lys Asp Ile Ser Gly Thr Thr Tyr
35      40      45
Asn Thr Phe Gly Tyr Asp Asn Thr Ala Ser Thr Pro Trp Tyr Tyr Gly
50      55      60
Tyr Ala Asp Trp Asn Tyr Ser Asp Ala Thr His Asp Gly Asp Ile Tyr
65      70      75
Pro Val Val Asn Lys Ser Thr Val Asn Gly Val Ile Ser Thr Tyr Tyr
85      90      95
Leu Asp Asp Gly Val Asn Gly Arg Ala Asn Ala Leu Ser Ile Ser Asn
100     105     110
Ser Thr Ile Asn Gly Met Ile Thr Ser Glu Cys Met Thr Thr Thr Cys
115     120     125
Ala Asp Gly Val Asp Thr Asp Gly Thr Ala His Thr Gln Tyr Asp Arg
130     135     140
Phe Ser Leu Thr Val Asp Asn Ser Thr Ile Asn Asp Thr Tyr Glu His
145     150     155
Tyr Ala Tyr Asp Val Val Asn Gly Glu Thr Thr Glu Thr His Tyr Leu
165     170     175
Asp Thr Tyr Asp Leu Gly Asn Ala Ile Thr Leu Asp Val Glu Ser Asp
180     185     190
Ile Val Ile Gln Asn Asn Ser His Val Ala Gly Ile Thr Leu Thr Gln
195     200     205
Gly Tyr Gln Asp Leu Asp Asn Thr Pro Tyr Asp Gly Val Glu Gly Val
210     215     220
Ala Asn Ser Ser Asn Val Phe Thr Asp Thr Leu Val Val Lys Asp Ser
225     230     235
Val Leu Thr Ser Gly Ala Tyr Ser Asp Leu Gly Thr Ser Gly Phe Tyr
245     250     255
Gly Gln Thr Ala Lys Pro Ser Asp Tyr Gly Glu Thr Asn Ala Thr Ala
260     265     270
Ala Asp Asp Ala Ala Leu Ile Val Val Ala Gly Ala Ser Asp Asn Ala
275     280     285
Met Gln Thr Thr Ala Thr Phe Asp His Ser Thr Ile Thr Gly Asp Ile
290     295     300
Leu Phe Ser Ser Thr Phe Asp Asn Asn Phe Tyr Glu Asn Gly Asp Pro
305     310     315
Ala Thr Asp Thr Thr Asp Asp Gly Ile Tyr Asn Pro Thr Thr Asn Gly
325     330     335
Trp Asp Asp Thr Asp Lys Leu Asp Val Thr Leu Thr Asn Gly Ser Lys
340     345     350
Trp Val Gly Ala Ala Gln Ser Ser Val Glu Ala Ile Gly Thr Ala Gln
355     360     365
Met Tyr Gly Glu Gly Tyr Ser Asn Val Asp Trp His Ala Leu Ser Pro
370     375     380
Asn Ser Ile Trp Pro Asp Ser Thr Phe Asp Ser Asn Gly His Val Ala
385     390     395
Gly Glu Glu Val Tyr Gln Ser Gly Leu Phe Asn Val Ala Leu Asp Asn
405     410     415
Gly Ser Glu Trp Asp Thr Arg Lys Ile Ser Asn Ile Asp Ala Leu Thr
420     425     430
Val Asn Asn Gln Ser Gln Val Asn Val Glu Asn Ser Gly Leu Leu Ala
435     440     445
Asp Ser Ile Thr Leu Thr Asn Ala Ser Ser Leu Asn Ile Gly Asp Asn

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450 455 460
 Gly Ala Val Ala Thr Asp Ser Leu Tyr Leu Asp Ser Tyr Ser Arg Ala
 465 470 475 480
 Ala Leu Thr Glu Glu Thr Ala Glu Leu Tyr Ala Ala Asn Thr Ile Thr Val
 485 490 495
 Asp Asn Gly Ala Glu Leu Ala Leu Gly Leu Gly Gln Val Asp Thr His
 500 505 510
 Asn Met Val Leu Thr Asp Gly Gly Val Leu Asn Val Ala Ser Arg Asp
 515 520 525
 Tyr Val Leu Asn Ser Asp Leu Asn Asn Ala Arg Tyr Ile Thr Asn Asp
 530 535 540
 Arg Asn Lys Ala Asp Tyr Asp Tyr Gly Val Val Ala Leu Asn Ser Asp
 545 550 555 560
 Gly His Leu Ala Val Asn Gly Asp Val Ala Gly Asn Tyr Lys Val Arg
 565 570 575
 Ile Asp Asp Ala Thr Gly Ala Gly Ser Val Ala Asp Tyr Lys Asn Lys
 580 585 590
 Glu Ile Ile Arg Val Ser Asp Asn Asn Ala Asp Thr Ala Ala Ser Phe
 595 600 605
 Thr Ala Ala Asn Lys Ala Asp Leu Gly Ala Tyr Thr Tyr Gln Ala Gln
 610 615 620
 Gln Lys Gly Asp Thr Val Val Leu Gln Gln Glu Leu Thr Asp Tyr
 625 630 635 640
 Ala Asn Met Ala Leu Ser Ile Pro Ser Ala Asn Thr Asn Ile Trp Asn
 645 650 655
 Leu Gln Gln Asp Thr Val Gly Thr Arg Leu Thr Asn Ser Arg His Gly
 660 665 670
 Leu Ala Asp Asn Gly Gly Ala Trp Val Ser Tyr Phe Gly Gly Asn Phe
 675 680 685
 Asp Ala Asp Asn Gly Thr Val Ser Tyr Asp Gln Asp Val Ser Gly Ile
 690 695 700
 Met Val Gly Leu Asp Thr Gln Ile Asp Gly Asn Asn Ala Lys Trp Ile
 705 710 715
 Val Gly Gly Ala Ala Gly Phe Ala Lys Gly Asp Ile Ser Asp Arg Thr
 725 730 735
 Gly Gln Val Asp Gln Asp Ser Gln Thr Ala Met Ile Tyr Ala Ser Ala
 740 745 750
 Lys Phe Met Asn Asp Ile Phe Leu Asp Ser Ser Leu Ser Tyr Thr Arg
 755 760 765
 Phe Asn Asn Asp Leu Ser Ala Thr Met Ser Asn Gly Gln Tyr Val Asp
 770 775 780
 Gly Asn Thr Thr Thr Glu Pro Val Gly Phe Arg Gly
 785 790 795

<210> 8430

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 8430

Leu Glu Val Cys Met Asn Val Asn Ala Lys Pro Leu Ser Glu Leu Ser
 1 5 10 15
 Arg Leu Ile Lys Cys Leu Glu Ile Ala Gly Thr Pro Phe Lys Thr Glu
 20 25 30
 Pro Gln Gln Leu Ile Thr Thr Gly Asn Asn Asp Asp Glu Pro Leu Thr
 35 40 45
 Val Val Ile Gln Ser Gly Leu Thr Ala Val His Arg Lys Ser Asp Glu
 50 55 60
 Leu Leu Met Gly Ile Ala Arg Ala Pro Tyr Ile His Gly Leu Ser Ala
 65 70 75 80
 Trp Ile Asn Asp Asn Tyr Leu Glu Tyr Ser Leu Ile Ala Gln Thr Pro

85 90 95
 Cys Thr Gly Phe Tyr Leu Pro Ala Ser Thr Ala Cys Glu Leu Ile Gln
 100 105 110
 Glu Ala His Val Trp Gln Glu Ala Phe Cys Trp Leu Ser Trp Leu Asn
 115 120 125
 His Leu Leu Gly Lys Arg Asp Ile Gln Leu Ile Gly Asn Asn Ser Tyr
 130 135 140
 Ser Gln Ile Arg Ala Met Leu Leu Asn Met Ala Glu Trp Asp Asp Ala
 145 150 155 160
 Leu Arg Ser Lys Ile Gly Val Met Asn His Ile Gln Arg Ser Thr Arg
 165 170 175
 Ile Ser Arg Ser Val Val Ala Glu Val Leu Ala Ala Leu Arg Gln Gly
 180 185 190
 Asn Tyr Ile Asn Met Ser Arg Gly Lys Leu Val Ser Ile Asn Arg Leu
 195 200 205
 Pro Thr Asp Tyr
 210

<210> 8431

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 8431

Ser Asp Tyr Ala Leu Pro Leu Thr Leu Leu Trp Thr Gly Arg Arg Trp
 1 5 10 15
 Ala Tyr Leu Ala Ile Val Leu Asp Leu Phe Ala Arg Lys Pro Val Gly
 20 25 30
 Trp Ala Met Ser Phe Ser Pro Asp Ser Lys Leu Thr Ile Lys Ala Leu
 35 40 45
 Glu Met Ala Trp Glu Thr Arg Asp Lys Pro Ala Gly Val Met Phe Pro
 50 55 60
 Ser Asp Gln Gly Ser His Tyr Thr Ser Arg Gln Ile Arg Gln Leu Leu
 65 70 75 80
 Trp Arg Tyr Arg Ile Arg Gln Ser Met Ser Arg Arg Gly Asn Cys Trp
 85 90 95
 Asp Asn Ser Pro Met Glu Arg Phe Phe Arg Ser Leu Lys Asn Glu Trp
 100 105 110
 Val Pro Val Thr Gly Tyr Ile Asn Phe Ser Glu Ala Ala His Ala Ile
 115 120 125
 Thr Asp Tyr Ile Val Gly Tyr Tyr Ser Ser Val Arg Pro His Asp Tyr
 130 135 140
 Asn Gly Gly Leu Pro Pro Asn Glu Ser Glu Asn Arg Tyr Trp Lys Asn
 145 150 155 160
 Ser Lys Ala Val Ala Ser Phe Gly
 165

<210> 8432

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 8432

Arg Leu Tyr Arg Gln Arg Tyr Val Ile Ala Pro Leu Thr Gln Thr Leu
 1 5 10 15
 Pro Ser Gln Ser Thr Pro Ala Cys Thr Ser His Asp Val Gln Ala Leu
 20 25 30
 Ser Ser Ala Pro Pro Glu Pro Pro Ala Arg Ser His Arg Leu Gly Phe
 35 40 45
 Pro Pro Ala Ser Ala Ala Trp Ser Ser Ile Leu Arg Leu Arg Thr Cys
 50 55 60

Pro Ser Leu Pro Gly Gln Pro Ala Pro Phe Gln Pro Gly His Ser Pro
 65 70 75 80
 Val Asp Arg Lys Thr Gln Pro Asp Arg Ala Glu
 85 90

<210> 8433

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 8433

Pro Arg Arg Ser Leu Asn Met Ser Gln Asn Pro Leu Thr Ala Leu
 1 5 10 15
 Leu Glu Asn Gln Pro Phe Val Val Leu Asp Gly Ala Met Ala Thr Glu
 20 25 30
 Leu Glu Ala Arg Gly Cys Asn Leu Ala Asp Ser Leu Trp Ser Ala Lys
 35 40 45
 Val Leu Met Glu Asn Pro Glu Leu Ile Arg Asp Val His Leu Asp Tyr
 50 55 60
 Tyr Arg Ala Gly Ala Gln Val Ala Ile Thr Ala Ser Tyr Gln Ala Thr
 65 70 75 80
 Pro Ala Gly Phe Ala Ala Arg Gly Leu Asp Glu Ser Gln Ser Arg Ala
 85 90 95
 Leu Ile Gly Lys Ser Val Glu Leu Ala Arg Lys Ala Arg Glu Val Tyr
 100 105 110
 Leu Ala Glu Asn Ala Asn Ala Gly Thr Leu Leu Val Ala Gly Ser Val
 115 120 125
 Gly Pro Tyr Gly Ala Tyr Leu Ala Asp Gly Ser Glu Tyr Arg Gly Asp
 130 135 140
 Tyr Val Arg Ser Ala Glu Glu Phe Thr Ala Phe His Arg Pro Arg Val
 145 150 155 160
 Glu Ala Leu Leu Asp Ala Gly Ala Asp Leu Leu Ala Cys Glu Thr Leu
 165 170 175
 Pro Ser Phe Thr Glu Ile Lys Ala Leu Ala Leu Leu Thr Ala Tyr
 180 185 190
 Pro Arg Ala Arg Ala Trp Phe Ser Phe Thr Leu Arg Asp Ser Glu His
 195 200 205
 Leu Ser Asp Gly Thr Pro Leu Arg Asp Val Val Ser Ala Leu Glu Asn
 210 215 220
 Tyr Pro Gln Val Val Ala Leu Gly Ile Asn Cys Ile Ala Leu Glu Asn
 225 230 235 240
 Thr Thr Ser Ala Leu Thr His Leu His Ser Leu Thr Ser Leu Pro Leu
 245 250 255
 Val Val Tyr Pro Asn Ser Gly Glu His Tyr Asp Ala Val Ser Lys Thr
 260 265 270
 Trp His His His Gly Glu Ala Cys Glu Thr Leu Ala Gly Tyr Leu Pro
 275 280 285
 Gln Trp Leu Ala Ala Gly Ala Lys Leu Ile Gly Gly Cys Cys Arg Thr
 290 295 300
 Thr Pro Lys Asp Ile Ala Ala Leu Thr Val Gln Arg
 305 310 315

<210> 8434

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 8434

Asn Lys Gly Ala Ala Met Leu Asn Ile Thr Asn Leu Ser Ala Asp Tyr
 1 5 10 15
 Gly Gly Lys Pro Ala Leu Glu Ala Ile Asn Leu Thr Leu Asp Ser Gly

20 25 30
 Glu Leu Leu Val Val Leu Gly Pro Ser Gly Cys Gly Lys Thr Thr Leu
 35 40 45
 Leu Asn Leu Ile Ala Gly Phe Val Pro Tyr Gln His Gly Ser Ile Gln
 50 55 60
 Leu Glu Gly Lys Arg Val Thr Gly Pro Gly Ala Glu Arg Gly Val Val
 65 70 75 80
 Phe Gln Asn Glu Gly Leu Leu Pro Trp Arg Asn Val Gln Glu Asn Val
 85 90 95
 Ala Phe Gly Leu Gln Leu Ala Gly Val Ala Arg Glu Gln Arg Leu Asn
 100 105 110
 Thr Ala Arg Asp Met Leu Lys Lys Val Gly Leu Glu Gly Ala Glu Lys
 115 120 125
 Arg Phe Ile Trp Gln Leu Ser Gly Gly Gln Arg Gln Arg Val Gly Ile
 130 135 140
 Ala Arg Ala Leu Ala Ala Asn Pro Gln Leu Leu Leu Asp Glu Pro
 145 150 155 160
 Phe Gly Ala Leu Asp Ala Phe Thr Arg Glu Gln Met Gln Thr Leu Leu
 165 170 175
 Leu Arg Leu Trp His Glu Thr Gly Lys Gln Val Leu Leu Ile Thr His
 180 185 190
 Asp Ile Glu Glu Ala Val Phe Met Ala Thr Glu Leu Val Leu Leu Ser
 195 200 205
 Pro Gly Pro Gly Arg Val Leu Glu Arg Leu Pro Leu Glu Phe Ala Arg
 210 215 220
 Arg Tyr Val Ala Gly Glu Pro Val Arg Ser Ile Lys Ser Asp Pro Leu
 225 230 235 240
 Phe Ile Glu Gln Arg Glu Tyr Val Leu Ser Arg Val Phe Glu Gln Arg
 245 250 255
 Glu Ala Phe Ser
 260

<210> 8435

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 8435

Glu Asp Ser Phe Phe Ser Ala Gly Val Val Met Lys Leu Thr Ser Lys
 1 5 10 15
 Leu Arg Arg Asp Trp His Tyr Tyr Ala Phe Ala Ile Gly Leu Ile Phe
 20 25 30
 Ile Leu Asn Gly Val Val Gly Leu Leu Gly Phe Glu Ala Lys Gly Trp
 35 40 45
 Gln Thr Tyr Ala Val Gly Leu Val Thr Trp Val Ile Ser Phe Trp Leu
 50 55 60
 Ala Gly Phe Ile Ile Arg Arg Arg Pro Asp Glu Thr Thr Thr Ala Glu
 65 70 75 80
 Lys Thr Asp

<210> 8436

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 8436

Ser Ser Ala Glu Ile Trp Ile Asn Cys Asp Leu Phe His Lys Tyr Asp
 1 5 10 15
 Asp Trp Glu Asp Lys Thr Pro Lys Ser Ala Arg Pro His Leu Trp Arg
 20 25 30

Tyr Val Ile Ala Arg Asn Leu Leu Ile Cys Arg Arg Ile Arg Leu Lys
 35 40 45
 Met Lys Thr Ile Ser Val Met Glu Ser Trp Lys Val Asn Leu Ile Ser
 50 55 60
 Val Trp Phe Gly Cys Phe Phe Thr Gly Leu Ala Ile Ser Gln Ile Leu
 65 70 75 80
 Pro Phe Leu Pro Leu Tyr Val Ser Gln Leu Gly Val Thr Ser His Glu
 85 90 95
 Ala Leu Ser Met Trp Ser Gly Leu Thr Phe Ser Val Thr Phe Leu Val
 100 105 110
 Ser Ala Ile Val Ser Pro Met Trp Gly Ser Leu Ala Asp Arg Lys Gly
 115 120 125
 Arg Lys Leu Met Leu Leu Arg Ala Ser Leu Gly Met Ala Ile Ala Ile
 130 135 140
 Leu Leu Gln Ala Phe Ala Thr Asn Val Trp Gln Leu Phe Ile Leu Arg
 145 150 155 160
 Ala Ile Met Gly Leu Thr Ser Gly Tyr Ile Pro Asn Ala Met Ala Leu
 165 170 175
 Val Ala Ser Gln Val Pro Arg Glu Arg Ser Gly Trp Ala Leu Ser Thr
 180 185 190
 Leu Ser Thr Ala Gln Ile Ser Gly Val Ile Gly Gly Pro Leu Leu Gly
 195 200 205
 Gly Phe Leu Ala Asp His Val Gly Leu Arg Ala Val Phe Ile Ile Thr
 210 215 220

<210> 8437

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 8437

Gly Glu Asp Asp Arg Asp Ile Arg Asp Pro Met Glu Leu Met Asp Glu
 1 5 10 15
 Val Glu Asn Glu Leu Lys Ile Ala Cys Ala Pro Ile Thr Trp Pro Ile
 20 25 30
 Gly Cys Gly Lys Leu Phe Lys Gly Val Tyr His Leu Tyr Lys Asp Glu
 35 40 45
 Thr Tyr Leu Tyr Gln Thr Gly Lys Gly His Thr Ile Gln Glu Val Arg
 50 55 60
 Ile Val Lys Gly Leu Asp Asn Pro Asp Leu Asp Ala Ala Val Gly Glu
 65 70 75 80
 Glu Leu Ala Ala Gln Leu His Asp Glu Leu Glu Leu Val Lys Gly Ala
 85 90 95
 Ser His Glu Phe Asp Arg Glu Leu Phe Leu Ser Gly Glu Ile Thr Pro
 100 105 110
 Val Phe Phe Gly Thr Ala Leu Gly Asn Phe Gly Val Asp His Met Leu
 115 120 125
 Asp Gly Leu Val Glu Trp Ala Pro Gln Pro Met Pro Arg Lys Thr Asp
 130 135 140
 Thr Arg Glu Val Glu Ala Lys Glu Glu Lys Phe Ser Gly Phe Val Phe
 145 150 155 160
 Lys Ile Gln Ala Asn Met Asp Pro Lys His Arg Asp Arg Val Ala Phe
 165 170 175
 Met Arg Val Val Ser Gly Lys Tyr Glu Lys Gly Met Lys Leu Arg Gln
 180 185 190
 Val Arg Ile Gly Lys Asp Val Val Ile Ser Asp Ala Leu Thr Phe Met
 195 200 205
 Ala Gly Asp Arg Ser His Val Glu Glu Ala Tyr Pro Gly Asp Ile Ile
 210 215 220
 Gly Leu His Asn His Gly Thr Ile Gln Ile Gly Asp Thr Phe Thr Gln
 225 230 235 240

Gly Glu Met Met Lys Phe Thr Gly Ile Pro Asn Phe Ala Pro Glu Leu
 245 250 255
 Phe Arg Arg Ile Arg Leu Arg Asp Pro Leu Lys Gln Lys Gln Leu Leu
 260 265 270
 Lys Gly Leu Val Gln Leu Ser Glu Glu Gly Ala Val Gln Val Phe Arg
 275 280 285
 Pro Ile Ala Asn Asn Asp Leu Ile Val Gly Ala Val Gly Val Leu Gln
 290 295 300
 Phe Asp Val Val Val Ala Arg Leu Lys Ser Glu Tyr Asn Val Glu Ala
 305 310 315 320
 Ile Tyr Glu Ser Val Asn Val Ala Thr Ala Arg Trp Val Glu Cys Ser
 325 330 335
 Asp Val Lys Lys Phe Glu Glu Phe Lys Arg Lys Asn Glu Val Gln Leu
 340 345 350
 Ala Leu Asp Gly Gly Asp Asn Leu Thr Tyr Ile Ala Pro Thr Met Val
 355 360 365
 Asn Leu Asn Leu Thr Gln Glu Arg Tyr Pro Asp Val Gln Phe Arg Lys
 370 375 380
 Thr Arg Glu His
 385

<210> 8438

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 8438

Lys Glu Leu Lys Met Ala Thr Pro His Ile Asn Ala Glu Met Gly Asp
 1 5 10 15
 Phe Ala Asp Val Val Leu Met Pro Gly Asp Pro Leu Arg Ala Lys His
 20 25 30
 Ile Ala Glu Thr Phe Leu Glu Asp Val Arg Glu Val Asn Asn Val Arg
 35 40 45
 Gly Met Leu Gly Phe Thr Gly Thr Tyr Lys Gly Arg Lys Ile Ser Val
 50 55 60
 Met Gly His Gly Met Gly Ile Pro Ser Cys Ser Ile Tyr Thr Lys Glu
 65 70 75 80
 Leu Ile Thr Asp Phe Gly Val Lys Lys Ile Ile Arg Val Gly Ser Cys
 85 90 95
 Gly Ala Val Arg Met Asp Val Lys Leu Arg Asp Val Val Ile Gly Met
 100 105 110
 Gly Ala Cys Thr Asp Ser Lys Val Asn Arg Ile Arg Phe Lys Asp His
 115 120 125
 Asp Phe Ala Ala Ile Ala Asp Phe Asp Met Val Arg Asn Ala Val Asp
 130 135 140
 Ala Ala Lys Ala Leu Gly Val Asp Ala Arg Val Gly Asn Leu Phe Ser
 145 150 155 160
 Ala Asp Leu Phe Tyr Ser Pro Glu Gly Asp Met Phe Asp Val Met Glu
 165 170 175
 Lys Tyr Gly Ile Leu Gly Val Glu Met Glu Ala Ala Gly Ile Tyr Gly
 180 185 190
 Val Ala Ala Glu Phe Gly Ala Lys Ala Leu Thr Ile Cys Thr Val Ser
 195 200 205
 Asp His Ile Arg Thr His Glu Gln Thr Thr Ala Ala Glu Arg Gln Thr
 210 215 220
 Thr Phe Asn Asp Met Ile Lys Ile Ala Leu Glu Ser Val Leu Leu Gly
 225 230 235 240
 Asp Lys Glu

<210> 8439

<211> 463

<212> PRT

<213> *Enterobacter cloacae*

<400> 8439

Thr Val Ala Lys Ala Pro Lys Arg Ala Phe Val Cys Asn Glu Cys Gly
 1 5 10 15
 Ala Asp Tyr Pro Arg Trp Gln Gly Gln Cys Ser Ala Cys His Ala Trp
 20 25 30
 Asn Thr Ile Thr Glu Val Arg Gly Val Ala Ala Ser Pro Ser Val Ala
 35 40 45
 Arg Asn Glu Arg Leu Ser Gly Tyr Ala Gly Asn Ala Gly Val Ser Lys
 50 55 60
 Val Gln Lys Leu Ser Asp Ile Ser Leu Glu Ala Leu Pro Arg Phe Ser
 65 70 75 80
 Thr Gly Phe Lys Glu Phe Asp Arg Val Leu Gly Gly Gly Val Val Pro
 85 90 95
 Gly Ser Ala Ile Leu Ile Gly Gly Asn Pro Gly Ala Gly Lys Ser Thr
 100 105 110
 Leu Leu Leu Gln Thr Leu Cys Lys Leu Ala Glu Gln Met Lys Thr Leu
 115 120 125
 Tyr Val Thr Gly Glu Glu Ser Leu Gln Gln Val Ala Met Arg Ala His
 130 135 140
 Arg Leu Gly Leu Pro Thr Gly Asn Leu Asn Met Leu Ser Glu Thr Ser
 145 150 155 160
 Ile Glu Gln Ile Cys Met Ile Ala Glu Glu Glu Gln Pro Lys Leu Met
 165 170 175
 Val Ile Asp Ser Ile Gln Val Met His Met Ala Asp Ile Gln Ser Ser
 180 185 190
 Pro Gly Ser Val Ala Gln Val Arg Glu Thr Ala Ala Tyr Leu Thr Arg
 195 200 205
 Phe Ala Lys Thr Arg Gly Val Ala Ile Val Met Val Gly His Val Thr
 210 215 220
 Lys Asp Gly Ser Leu Ala Gly Pro Lys Val Leu Glu His Cys Ile Asp
 225 230 235 240
 Cys Ser Val Met Leu Asp Gly Asp Ala Asp Ser Arg Phe Arg Thr Leu
 245 250 255
 Arg Ser His Lys Asn Arg Phe Gly Ala Val Asn Glu Leu Gly Val Phe
 260 265 270
 Ala Met Thr Glu Gln Gly Leu Arg Glu Val Ser Asn Pro Ser Ala Ile
 275 280 285
 Phe Leu Ser Arg Gly Asp Glu Ile Thr Ser Gly Ser Ser Val Met Val
 290 295 300
 Leu Trp Glu Gly Thr Arg Pro Leu Leu Val Glu Ile Gln Ala Leu Val
 305 310 315 320
 Asp His Ser Met Met Gly Asn Pro Arg Arg Val Ala Val Gly Leu Glu
 325 330 335
 Gln Asn Arg Leu Ala Ile Leu Leu Ala Val Leu His Arg His Gly Gly
 340 345 350
 Leu Gln Met Ala Asp Gln Asp Val Phe Val Asn Val Val Gly Gly Val
 355 360 365
 Lys Val Thr Glu Thr Ser Ala Asp Leu Ala Leu Leu Leu Ala Met Val
 370 375 380
 Ser Ser Leu Arg Asp Arg Pro Leu Pro Gln Asp Leu Val Val Phe Gly
 385 390 395 400
 Glu Val Gly Leu Ala Gly Glu Ile Arg Pro Val Pro Ser Gly Gln Glu
 405 410 415
 Arg Ile Ser Glu Ala Ala Lys His Gly Phe Arg Arg Ala Ile Val Pro
 420 425 430
 Ala Ala Asn Val Pro Lys Lys Ile Pro Glu Gly Met Gln Val Phe Gly
 435 440 445

Val Lys Lys Leu Ala Asp Ala Leu Asn Val Phe Asp Asp Leu
 450 455 460

<210> 8440

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 8440

Thr Ile Met Phe Lys Gln Leu Gln Asp Met Ala Leu Phe Ala Leu Val
 1 5 10 15
 Ala Glu Met Gly Ser Phe Thr Ala Ala Ala Gln Lys Ala Glu Leu Pro
 20 25 30
 Lys Ser Ser Val Ser Gln Arg Ile Ser Gln Leu Glu Gln Gln Val Gly
 35 40 45
 Ile Arg Leu Leu Asn Arg Thr Thr Arg Arg Ile Ser Leu Thr Phe Ala
 50 55 60
 Gly Glu His Tyr Leu Val His Cys Arg Glu Met Leu Ala Ala Ser Glu
 65 70 75 80
 Arg Ala Glu Tyr Ala Ile Gln Arg Leu Arg Glu Asn Pro Ser Gly Arg
 85 90 95
 Leu Arg Ile Thr Cys Pro Ala Gly Ile Gly Ala Thr Leu Leu Ala His
 100 105 110
 Met Asn Ala Glu Phe Gln Leu Arg Tyr Pro Asp Val Ser Leu Asp Val
 115 120 125
 Ser Ile Ser Asp Asp Val Val Asp Leu Val Glu Ser Gly Phe Asp Val
 130 135 140
 Ala Leu Arg Thr Gly Lys Pro Gln Asp Ser Ser Leu Ile Gly Arg Met
 145 150 155 160
 Ile Gly His Cys Pro Arg Tyr Met Leu Ala Ser Pro Asp Tyr Leu Ala
 165 170 175
 Arg Arg Glu Pro Leu Ile His Pro Arg Gln Leu Val Glu His Arg Cys
 180 185 190
 Ile Thr His Arg Ala Trp Ser Glu Trp Leu Leu Arg Ser Glu Asn Glu
 195 200 205
 Asp Tyr Arg Tyr Leu Pro Asp Asn Ala His Met Thr Asp Asn Leu Val
 210 215 220
 Tyr Ala Arg Glu Cys Ala Ile Ala Gly Ala Gly Ile Thr Leu Leu Pro
 225 230 235 240
 Ala Phe Leu Leu Glu Asp Lys Ile Glu Lys Gly Ala Leu Val Lys Val
 245 250 255
 Leu Ser Ala Trp Ser Val Glu Gly Asn Asp Leu Trp Leu Ala Tyr Pro
 260 265 270
 Ser Arg Lys Leu Asn Ser Pro Ala Leu Met Ser Tyr Ile Asp Phe Ala
 275 280 285
 Met Gln Phe Asp Glu Val Lys Arg Tyr Tyr Val Gly Gly
 290 295 300

<210> 8441

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 8441

Ala Met Pro Ser Gly Arg Asp Val Thr Asp Arg Arg Gly Leu Cys Tyr
 1 5 10 15
 Ala Val Leu Ala Asn Glu Tyr Lys Arg Gln His Asn Met Thr Gln His
 20 25 30
 Ser Pro Tyr Ser Ser Ala Met Ala Glu Gln Arg His Gln Glu Trp Leu
 35 40 45
 Arg Phe Val Glu Leu Leu Arg Gln Ser Tyr Asp Lys Asp Leu His Leu

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      50                      55                      60
Pro Leu Leu Gln Leu Met Leu Thr Pro Asp Glu Arg Glu Ala Leu Gly
65                      70                      75                      80
Thr Arg Val Arg Ile Ile Glu Glu Leu Leu Arg Gly Glu Met Ser Gln
      85                      90                      95
Arg Glu Leu Lys Asn Glu Leu Gly Ala Gly Ile Ala Thr Ile Thr Arg
      100                      105                      110
Gly Ser Asn Ser Leu Lys Ser Ala Pro Val Glu Leu Arg Gln Trp Leu
      115                      120                      125
Glu Ala Val Leu Leu Lys Asn Ala Gly
      130                      135

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<210> 8442

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 8442

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Arg Gln Asn Tyr Gly Leu Val Val Asn Ala Arg Thr Gly Glu Leu Ala
1                      5                      10                      15
Arg Gly Lys Asp Ala Asn Arg Pro Leu Phe Thr Thr Asn Ile Ile Asn
      20                      25                      30
Ala Gly Val Val Arg His Tyr Arg Thr Gln Arg Leu Thr Arg Ala Asp
      35                      40                      45
Phe Leu Gln Tyr Asp Leu Arg Gln Arg Gln Arg Gly Arg Thr Arg Phe
      50                      55                      60
Ala Ala Leu Leu Ala Ala Phe Asp Asp Asn Pro Ala Glu Gly Arg Ser
65                      70                      75                      80
Phe Val Asp Thr Ser Ile Asn Arg Asp Pro Glu Val Ser Val Trp Arg
      85                      90                      95
Gly Gly Phe Cys Ile Arg His Ala Ile Ser Cys Ala Ser Ala Cys Phe
      100                      105                      110
Leu Ala Ala Lys Arg Leu Phe Arg His Thr Ala Leu Asp Ala Asp Gly
      115                      120                      125
Val Asn Met Ala Gly Ser Phe Ala Lys Asp Leu Phe Lys Cys Pro
      130                      135                      140

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<210> 8443

<211> 191

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (191)

<400> 8443

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Arg Lys Lys Ser Met Leu Gln Val Tyr Leu Val Arg His Gly Glu Thr
1                      5                      10                      15
Gln Trp Asn Ala Glu Arg Arg Ile Gln Gly Gln Ser Asp Ser Pro Leu
      20                      25                      30
Thr Asp Lys Gly Val Gln Gln Ala Trp Gln Val Ala Glu Arg Ala Arg
      35                      40                      45
Thr Leu Gly Ile Thr His Val Ile Ser Ser Asp Leu Gly Arg Thr Gln
      50                      55                      60
Gln Thr Ala Arg Ile Ile Ala Asp Ala Cys Gly Cys Asp Val Thr Leu
65                      70                      75                      80
Glu Pro Arg Leu Arg Glu Leu Asp Met Gly Val Leu Glu Lys Arg Pro
      85                      90                      95
Ile Asp Thr Leu Thr Glu Thr Glu Glu Gly Trp Arg Arg Thr Leu Val
      100                      105                      110

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Asn Gly Thr Glu Asp Gly Arg Ile Pro Glu Gly Glu Ser Met Gln Glu
    115          120          125
Leu Ser Val Arg Met His Ala Ala Leu Ala Glu Cys Leu Lys Leu Pro
    130          135          140
Ala Gly Ser Arg Pro Leu Leu Val Ser His Gly Ile Ala Leu Gly Cys
    145          150          155          160
Leu Val Ser Thr Ile Leu Gly Leu Pro Ala Tyr Ala Glu Arg Arg Leu
    165          170          175
Arg Leu Arg Asn Cys Ser Ile Ser Arg Ile Asp Tyr His Glu Xaa
    180          185          190

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<210> 8444

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 8444

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Trp Ala Lys His Arg Asn Lys Ser Met Asn Met Thr Arg Leu Lys Ile
1          5          10          15
Ser Lys Thr Leu Ala Val Thr Leu Gly Ser Val Leu Val Ser Gly
    20          25          30
Ser Ala Leu Ala Glu Ser Ser Thr Met Asp Lys Ala Gln Ser Ser Ala
    35          40          45
Asn Thr Ala Gly Glu Lys Ile Asp Ser Ser Met Asn Lys Val Gly Asn
    50          55          60
Phe Met Asp Asp Ser Ser Ile Thr Ala Lys Val Lys Ala Ala Leu Val
    65          70          75          80
Asp His Asp Ser Ile Lys Ser Thr Asp Ile Ser Val Lys Thr Asp Asn
    85          90          95
Lys Val Val Thr Leu Ser Gly Phe Val Glu Ser Gln Thr Gln Ala Glu
    100          105          110
Glu Ala Val Lys Val Ala Lys Gly Val Glu Gly Val Ser Ser Val Ser
    115          120          125
Asp Lys Leu His Val Arg Asp Ser Lys Glu Ser Ser Val Lys Gly Tyr
    130          135          140
Ala Gly Asp Ala Ala Thr Thr Ser Glu Ile Lys Ala Lys Leu Leu Ala
    145          150          155          160
Asp Asp Ile Val Pro Ser Arg Met Val Lys Val Glu Thr Thr Asp Gly
    165          170          175
Val Val Gln Leu Ser Gly Thr Val Glu Asn Gln Ala Gln Ser Asp Arg
    180          185          190
Ala Glu Ser Ile Ala Lys Ala Ile Asp Gly Val Lys Ser Val Lys Asn
    195          200          205
Asp Leu Lys Thr Lys
    210

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<210> 8445

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 8445

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Arg Gly Ser Gly Met Thr His Cys Phe Ile Asp Thr His Cys His Phe
1          5          10          15
Asp Phe Pro Pro Phe Ser Gly Glu Glu Thr Ser Ser Leu Ala Arg Ala
    20          25          30
Ala Glu Ala Gly Val Arg Ala Ile Ile Val Pro Ala Ile Glu Ala Ala
    35          40          45
Arg Phe Asp Lys Val Leu Ala Leu Ala Arg Gly His Asp Ala Leu Tyr
    50          55          60
Ala Ala Leu Gly Leu His Pro Ile Val Ile Glu His His Leu Asp Asp

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65 70 75 80
 His Leu Asp Arg Leu Asp Ala Thr Leu Gln Asn Ala Asp Thr Lys Leu
 85 90 95
 Val Ala Ile Gly Glu Ile Gly Leu Asp Leu Tyr Arg
 100 105

<210> 8446

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 8446

Asp Pro Gln Phe Glu Arg Gln Gln Thr Ile Leu Asp Ala Gln Leu Arg
 1 5 10 15
 Leu Ala Lys Arg His Asp Leu Pro Val Ile Leu His Ser Arg Arg Thr
 20 25 30
 His Asp Lys Leu Ala Met His Leu Lys Arg Ile Asp Val Pro Arg Arg
 35 40 45
 Gly Val Val His Gly Phe Ala Gly Ser Leu Gln Gln Ala Gln Arg Phe
 50 55 60
 Ile Glu Leu Gly Tyr Lys Ile Gly Val Gly Gly Thr Ile Thr Tyr Pro
 65 70 75 80
 Arg Ala Ser Lys Thr Arg Asp Val Met Ala Gln Leu Pro Leu Thr Ser
 85 90 95
 Leu Leu Leu Glu Thr Asp Ala Pro Asp Met Pro Leu Asn Gly Phe Gln
 100 105 110
 Gly Gln Pro Asn Arg Pro Glu Gln Ala Ala Arg Val Phe Asp Val Leu
 115 120 125
 Cys Glu Leu Arg Gln Glu Pro Glu Asp Val Ile Ala Ser Ala Leu Leu
 130 135 140
 Glu Asn Thr Arg Ala Val Phe Gly Ile Thr Leu
 145 150 155

<210> 8447

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 8447

Val Arg Arg Thr Ile Met Lys Arg Ala Phe Ile Met Val Leu Asp Ser
 1 5 10 15
 Phe Gly Ile Gly Ala Thr Glu Asp Ala Glu Arg Phe Gly Asp Val Gly
 20 25 30
 Ser Asp Thr Leu Gly His Ile Ala Glu Ala Cys Ala Lys Gly Glu Ala
 35 40 45
 Asp Asn Gly Arg Lys Gly Pro Leu Asn Leu Pro Asn Leu Thr Arg Leu
 50 55 60
 Gly Leu Val Lys Ala His Glu Gly Ser Thr Gly Lys Ile Ala Ala Gly
 65 70 75 80
 Met Asp Gly Asn Ala Glu Val Val Gly Ala Tyr Ala Trp Ala His Glu
 85 90 95
 Leu Ser Ser Gly Lys Asp Thr Pro Ser Gly His Trp Glu Ile Ala Gly
 100 105 110
 Val Pro Val Leu Phe Asp Trp Gly Tyr Phe Ser Asp His Glu Asn Ser
 115 120 125
 Phe Pro Gln Glu Leu Leu Asp Lys Leu Val Lys Arg Ala Asn Leu Pro
 130 135 140
 Gly Tyr Leu Gly Asn Cys His Ser Ser Gly Thr Val Ile Leu Asp Gln
 145 150 155 160
 Leu Gly Glu Glu His Met Lys Thr Gly Lys Pro Ile Phe Tyr Thr Ser
 165 170 175

Ala Asp Ser Val Phe Gln Ile Ala Cys His Glu Glu Thr Phe Gly Leu
 180 185 190
 Asp Lys Leu Tyr Glu Leu Cys Glu Ile Ala Arg Glu Glu Leu Thr Glu
 195 200 205
 Gly Gly Tyr Asn Ile Gly Arg Val Ile Ala Arg Pro Phe Ile Gly Asp
 210 215 220
 Lys Ala Gly Asn Phe Gln Arg Thr Gly Asn Arg His Asp Leu Ala Val
 225 230 235 240
 Glu Pro Pro Ala Pro Thr Val Leu Gln Lys Leu Val Asp Glu Lys Asp
 245 250 255
 Gly His Val Val Ser Val Gly Lys Ile Ala Asp Ile Tyr Ala Asn Cys
 260 265 270
 Gly Ile Thr Lys Lys Val Lys Ala Thr Gly Leu Asp Ala Leu Phe Asp
 275 280 285
 Ala Thr Ile Lys Glu Met Lys Glu Ala Gly Asp Lys Thr Ile Val Phe
 290 295 300
 Thr Asn Phe Val Asp Phe Asp Ser Ser Trp Gly His Arg Arg Asp Val
 305 310 315 320
 Ala Gly Tyr Ala Ala Gly Leu Glu Leu Phe Asp Arg Arg Leu Pro Glu
 325 330 335
 Leu Met Glu Leu Val Gly Glu Asp Asp Ile Leu Ile Leu Thr Ala Asp
 340 345 350
 His Gly Cys Asp Pro Thr Trp Thr Gly Thr Asp His Thr Arg Glu His
 355 360 365
 Ile Pro Val Leu Val Tyr Gly Pro Lys Val Lys Pro Gly Ser Leu Gly
 370 375 380
 His Arg Glu Thr Phe Ala Asp Ile Gly Gln Thr Ile Ala Lys Tyr Phe
 385 390 395 400
 Gly Thr Ser Asp Met Glu Tyr Gly Lys Ala Met Phe
 405 410

<210> 8448

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 8448

Asn Leu Arg Leu Asn Val Ala Arg Ser Asp Gly Tyr Arg Val Ala Ser
 1 5 10 15
 Cys Val Ile Phe Pro Leu Glu Pro Ser Gly Ala Asn Glu Ile Thr Gly
 20 25 30
 Ala Ser Met Pro Asn Ile Thr Trp Cys Asp Leu Pro Thr Asp Val Ser
 35 40 45
 Leu Trp Pro Gly Leu Pro Leu Ser Leu Ser Gly Asp Glu Val Met Pro
 50 55 60
 Leu Asp Tyr His Ala Gly Arg Ser Gly Trp Leu Leu Tyr Gly Arg Gly
 65 70 75 80
 Leu Asp Lys Gln Arg Leu Thr Gln Tyr Gln Thr Lys Leu Gly Ala Ala
 85 90 95
 Met Val Ile Val Ala Ala Trp Cys Val Glu Asp Tyr Gln Val Ile Arg
 100 105 110
 Leu Ala Gly Ser Leu Thr Gln Arg Ala Thr Arg Leu Ala His Asp Ala
 115 120 125
 Gly Leu Asp Val Ala Pro Leu Gly Lys Ile Pro His Leu Lys Thr Pro
 130 135 140
 Gly Leu Leu Val Met Asp Met Asp Ser Thr Ala Ile Gln Ile Glu Cys
 145 150 155 160
 Ile Asp Glu Ile Ala Lys Leu Ala Gly Ser Gly Glu Leu Val Ala Glu
 165 170 175
 Val Thr Glu Arg Ala Met Arg Gly Glu Leu Asp Phe Thr Ala Ser Leu
 180 185 190

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Arg Gln Arg Val Ala Thr Leu Lys Gly Ala Asp Ala Asn Ile Leu Arg
    195                200
Gln Val Arg Asp Glu Leu Pro Leu Met Pro Gly Leu Thr Gln Leu Val
    210                215
Leu Lys Leu Glu Thr Leu Gly Trp Lys Val Ala Ile Ala Ser Gly Gly
    225                230
Phe Thr Phe Phe Ala Asp Tyr Leu Arg Asp Lys Leu Arg Leu Thr Thr
    245                250
Val Val Ala Asn Glu Leu Glu Ile Met Asp Gly Lys Leu Thr Gly Gln
    260                265
Val Ile Gly Asp Ile Val Asp Ala Gln Tyr Lys Ala Asn Thr Leu Thr
    275                280
Arg Leu Ala Glu Lys Tyr Ala Ile Pro Val Glu Gln Thr Val Ala Ile
    290                295
Gly Asp Gly Ala Asn Asp Leu Pro Met Ile Lys Val Ala Gly Leu Gly
    305                310
Ile Ala Tyr His Ala Lys Pro Lys Val Asn Glu Lys Thr Glu Val Thr
    325                330
Ile Arg His Ala Asp Leu Met Gly Val Phe Cys Ile Leu Ser Gly Ser
    340                345
Ile Asn Gln Lys
    355

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<210> 8449

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 8449

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Lys Thr Ala Thr Glu Val Ala Val Leu Leu Phe Arg Asn Thr Leu
1      5      10      15
Val Leu Asn Thr Leu Arg Leu Gln Arg Val Cys Ala Gln Arg Ala Phe
20     25     30
Leu Val Leu Phe Val Phe Gly Glu Val Thr Phe Glu Glu Leu His Leu
35     40     45
Thr Phe Val Leu Val Val Gln Asp Val Gly Arg Asp Thr Val Gln Glu
50     55     60
Pro Ala Val Val Arg Asp Asn His Arg Ala Ala Arg Glu Leu Gln Gln
65     70     75     80
Gly Val Phe Gln Cys Ala Gln Gly Phe Asp Val Gln Val Val Gly Gly
85     90     95
Phe Ile Glu Gln Gln Asn Val Ala Ala Asn Leu Glu Gln Phe Arg Gln
100    105    110
Val Gln Thr Thr Ala Phe Ala Ala Gly Gln Phe Ala His Ala Phe Ala
115    120    125
Leu Val Gly Ala Leu Glu Val Lys Ala Ala Asn Ile Gly Ala Ala Trp
130    135    140
His Leu Gly Val Ala Asp Thr His Asp Ile Gln Thr Ala Gly Asp Phe
145    150    155    160
Phe Pro His Gly Phe Ala Val Val His Arg Val Ala Glu Leu Val Asn
165    170    175
Gly Gly Gln Leu His Gly Leu Thr Gln Gly Asp Arg Ala Ala Val Arg
180    185    190
Leu Phe Leu Thr Arg His His Ala Glu Gln Gly Gly Phe Thr Arg Ala
195    200    205
Val Arg Thr Asp Asp Ala Asp Asp Ser Ala Phe Arg Asn Gly Glu Gly
210    215    220
Gln Ile Val Asp Gln His Ala Val Ala Val Gly Leu Thr Gln Val Ser
225    230    235    240
His Phe Asn His Phe Ile Pro Gln Thr Ser Arg Trp Asn Lys Gln
245    250    255

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Phe Val Gly Phe Val Thr Phe Leu Val Phe Gly Val Val Gln Leu Phe
 260 265 270
 Glu Ala Cys Gln Thr Gly Phe Ala Leu Arg Leu Thr Ala Phe Arg Ala
 275 280 285
 Leu Thr His Pro Leu Gln Leu Phe Leu Asn Arg Leu Thr Ala Gly Gly
 290 295 300
 Phe Leu Arg Arg Phe Leu Arg Gln Thr Leu Val Phe Leu Leu Gln Pro
 305 310 315 320
 Gly Gly Val Val Ala Phe Pro Arg Asn Thr Phe Ala Ala Val Gln Leu
 325 330 335
 Gln Asp Pro Ala Arg Asn Val Val Glu Val Thr Val Val Gly Asn
 340 345 350
 Arg Tyr His Gly Ala Phe Glu Val Met Gln Glu Ala Leu Gln Pro Arg
 355 360 365
 His Gly Phe Gly Ile Gln Val Val Gly Arg Phe Val Glu Gln Gln His
 370 375 380
 Val Trp Phe Phe Gln Gln Gln Ala Ala Gln Arg His Ala Ala Ala Phe
 385 390 395 400
 Thr Thr Gly Gln Val Ser Asp Phe Arg Ile Pro Val Trp Gln Thr Gln
 405 410 415
 Gly Ile Ser Arg Ala Leu Gln Leu His Val Gln Val Val Thr Ile Val
 420 425 430
 Arg Leu Asp Asn Phe Leu Ile Phe Ala Leu Leu Ser Gly Gln Phe Val
 435 440 445
 Glu Val Arg Ile Arg Leu Gly Val Phe Gly Ile His Phe Ile Gln Thr
 450 455 460
 Phe Gln Gly Val Asn His Leu Gly Tyr Arg Phe Phe Asn Gly Phe Thr
 465 470 475 480
 His Gly Val Leu Arg Val Gln Leu Arg Phe Leu Arg Gln Val Ala Asp
 485 490 495
 Leu Asn Ala Arg Leu Arg Thr Gly Phe Thr Phe Asp Val Cys Ile Asp
 500 505 510
 Ala Gly His Asp Ala Gln Gln Gly Gly Leu Thr Gly Thr Val Glu Thr
 515 520 525
 Gln Asn Thr Asp Phe Cys Ala Arg Glu Glu Ala Gln Arg Asp Ile Phe
 530 535 540
 Lys Asn Met Thr Phe Arg Arg Asp Asn Phe Ala Asp Thr Met His Gly
 545 550 555 560
 Ile Asn Glu Leu Ser His Val Gly Leu Arg Leu Phe Tyr Arg Asp Glu
 565 570 575
 Asn Glu Phe Gln Pro Arg Ser Val Ala Phe Phe Thr Pro
 580 585 590

<210> 8450

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 8450

Glu Pro Pro Gly Lys Cys Val Thr Val Ser His His Asn Asn Glu Asn
 1 5 10 15
 Arg Lys Ala Glu Val Gly Gln Arg Ile Pro Val Thr Leu Gly Asn Ile
 20 25 30
 Ala Pro Leu Thr Leu Lys Pro Phe His Ala Asp Gln Leu Ala Leu Val
 35 40 45
 Cys Glu Gly Gly Gly Gln Arg Gly Ile Phe Thr Ala Gly Val Leu Asp
 50 55 60
 Glu Phe Met Arg Ala Gln Phe Asn Pro Phe Asp Leu Tyr Phe Gly Thr
 65 70 75 80
 Ser Ala Gly Ala Gln Asn Leu Ser Ala Tyr Val Cys Asn Gln Pro Gly
 85 90 95

Tyr Ala Arg Lys Val Ile Met Arg Tyr Thr Thr Ser Lys Glu Phe Phe
 100 105 110
 Asn Pro Val Arg Phe Val Arg Gly Gly Asn Leu Ile Asp Leu Asp Trp
 115 120 125
 Leu Leu Asp Ala Thr Ser Ser Gln Met Pro Leu Ala Met Asp Thr Ala
 130 135 140
 Ser Arg Leu Phe Asp Thr Gly Lys Glu Phe Trp Met Cys Ala Ser Arg
 145 150 155 160
 Gly Asp Asp Tyr Ser Pro Gly Tyr Phe Ser Gln Lys Glu Asn Trp
 165 170 175
 Leu Asp Ile Ile Arg Ala Ser Ser Ala Ile Pro Gly Phe Tyr Arg Thr
 180 185 190
 Gly Ala Leu Leu Glu Gly Ile Ser Tyr Leu Asp Gly Gly Ile Ser Asp
 195 200 205
 Ala Val Pro Val Gln Glu Ala Ala Arg Arg Gly Ala Lys Thr Ile Val
 210 215 220
 Val Ile Arg Thr Val Pro Ser Gln Met Tyr Tyr Thr Pro Gln Trp Phe
 225 230 235 240
 Lys Arg Met Glu Arg Trp Leu Gly Asp Ser Ser Leu Gln Pro Leu Val
 245 250 255
 Asn Ile Ala Lys Gln His Glu Thr Thr Tyr Gly Ala Met Gln Arg Phe
 260 265 270
 Ile Glu Lys Pro Pro Gly Lys Leu Arg Ile Phe Glu Ile Tyr Pro Pro
 275 280 285
 Lys Pro Leu Leu Ser Met Ala Leu Gly Ser Arg Leu Pro Ala Leu Arg
 290 295 300
 Met Asp Tyr Lys Thr Gly Arg Leu Cys Gly Arg Tyr Phe Leu Ala Thr
 305 310 315 320
 Val Gly Lys Met Leu Ala Glu Gln Pro Pro Leu His Arg His Lys Ser
 325 330 335
 Ile Ile Leu Pro Pro Ala Val Val Ala Asn Asp Ala Val Ala Met Pro
 340 345 350
 Leu Val Asp Ala Pro Gln Ala Asn Asp Gly Leu Leu Asp Asn Glu Asp
 355 360 365
 Leu Ala
 370

<210> 8451

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 8451

Ser Ala Ile Asn Ala Leu Lys Phe Glu Glu Asp Leu Ile Thr Val Met
 1 5 10 15
 Gln Ile Cys Thr Gln Phe Ser Leu Thr Val Met Asn Val Glu Val Trp
 20 25 30
 Met Arg Val Asn Val Arg Ile Leu Thr Asp Pro Gln Gly Lys Ile Tyr
 35 40 45
 Thr Ala Leu Pro Leu Glu Asn Val Met Thr Asp Leu Thr Ala Ser Ser
 50 55 60
 Leu Arg Ala Leu Lys Leu Met Asp Leu Thr Thr Leu Asn Asp Asp Asp
 65 70 75 80
 Thr Asn Glu Lys Val Ile Ala Leu Cys His Gln Ala Lys Thr Pro Val
 85 90 95
 Gly Asn Thr Ala Ala Val Cys Ile Tyr Pro Arg Phe Ile Pro Ile Ala
 100 105 110
 Arg Lys Thr Leu Lys Glu Gln Gly Thr Pro Glu Val Arg Ile Ala Thr
 115 120 125
 Val Thr Asn Phe Pro His Gly Asn Asp Asp Ile Glu Ile Ala Leu Ala
 130 135 140

Glu Thr Arg Ala Ala Ile Ala Tyr Gly Ala Asp Glu Val Asp Val Val
 145 150 160
 Phe Pro Tyr Arg Ala Leu Ile Ala Gly Asn Glu Gln Val Gly Phe Asp
 165 170 175
 Leu Val Lys Ala Cys Lys Asp Ala Cys Ala Ala Asn Val Leu Leu
 180 185 190
 Lys Val Ile Ile Glu Thr Gly Glu Leu Lys Glu Glu Ala Leu Ile Arg
 195 200 205
 Lys Ala Ser Glu Ile Ser Ile Lys Ala Gly Ala Asp Phe Ile Lys Thr
 210 215 220
 Ser Thr Gly Lys Val Pro Val Asn Ala Thr Pro Glu Ser Ala Arg Ile
 225 230 235 240
 Met Met Glu Val Ile Arg Asp Met Gly Val Ser Lys Thr Val Gly Phe
 245 250 255
 Lys Pro Ala Gly Gly Val Arg Thr Ala Glu Asp Ala Gln Gln Phe Leu
 260 265 270
 Ala Ile Ala Asp Glu Leu Phe Gly Ala Asp Trp Ala Asp Ser Arg His
 275 280 285
 Tyr Arg Phe Gly Ala Ser Ser Leu Leu Ala Ser Leu Leu Lys Ala Leu
 290 295 300
 Gly His Gly Asp Gly Lys Ser Ala Ser Ser Tyr
 305 310 315

<210> 8452

<211> 474

<212> PRT

<213> Enterobacter cloacae

<400> 8452

Val Glu Leu Pro Gly Gly Ala Thr Leu Thr Arg Pro Lys Gly Ser Trp
 1 5 10 15
 Gly Gly Ser Thr Tyr Pro Pro Pro Phe Thr Arg Phe Arg Met Glu Val
 20 25 30
 Thr Val Phe Leu Ala Gln Glu Ile Ile Arg Lys Lys Arg Asp Gly His
 35 40 45
 Ala Leu Ser Asp Glu Glu Ile Arg Phe Phe Ile Asn Gly Ile Arg Asp
 50 55 60
 Asn Thr Ile Ser Glu Gly Gln Ile Ala Ala Leu Ala Met Thr Ile Phe
 65 70 75 80
 Phe His Asp Met Ser Met Pro Glu Arg Val Ser Leu Thr Met Ala Met
 85 90 95
 Arg Asp Ser Gly Thr Val Leu Asp Trp Lys Ser Leu Asn Leu Asn Gly
 100 105 110
 Pro Ile Val Asp Lys His Ser Thr Gly Gly Val Gly Asp Val Thr Ser
 115 120 125
 Leu Met Leu Gly Pro Met Val Ala Ala Cys Gly Gly Tyr Ile Pro Met
 130 135 140
 Ile Ser Gly Arg Gly Leu Gly His Thr Gly Gly Thr Leu Asp Lys Leu
 145 150 155 160
 Glu Ala Ile Pro Gly Phe Asp Ile Phe Pro Asp Asp Asn Arg Phe Arg
 165 170 175
 Asp Ile Ile Lys Asp Val Gly Val Ala Ile Ile Gly Gln Thr Ser Ser
 180 185 190
 Leu Ala Pro Ala Asp Lys Arg Phe Tyr Ala Thr Arg Asp Ile Thr Ala
 195 200 205
 Thr Val Asp Ser Ile Pro Leu Ile Thr Ala Ser Ile Leu Ala Lys Lys
 210 215 220
 Leu Ala Glu Gly Leu Asp Ala Leu Val Met Asp Val Lys Val Gly Ser
 225 230 235 240
 Gly Ala Phe Met Pro Thr Tyr Glu Leu Ser Glu Ala Leu Ala Glu Ala
 245 250 255

Ile Val Gly Val Ser Asn Gly Ala Gly Val Arg Thr Thr Ala Leu Leu
 260 265 270
 Thr Asp Met Asn Gln Val Leu Ala Ser Ser Ala Gly Asn Ala Val Glu
 275 280 285
 Val Arg Glu Ala Val Gln Phe Leu Thr Gly Glu Tyr Arg Asn Pro Arg
 290 295 300
 Leu Phe Asp Val Thr Met Ala Leu Cys Val Glu Met Leu Ile Ser Gly
 305 310 315 320
 Lys Leu Ala Lys Asp Asp Ala Asp Ala Arg Ala Lys Leu Gln Ala Val
 325 330 335
 Leu Asp Asn Gly Lys Ala Ala Glu Ile Phe Gly Arg Met Val Ala Ala
 340 345 350
 Gln Lys Gly Pro Thr Asp Phe Val Glu Asn Tyr Ala Lys Tyr Leu Pro
 355 360 365
 Thr Ala Met Leu Ser Lys Ala Val Tyr Ala Asp Ser Glu Gly Phe Val
 370 375 380
 Ser Ala Met Asp Thr Arg Ala Leu Gly Met Ala Val Val Ser Met Gly
 385 390 395 400
 Gly Gly Arg Arg Gln Ala Ser Asp Thr Ile Asp Tyr Ser Val Gly Phe
 405 410 415
 Thr Asp Met Ala Arg Leu Gly Asp Ser Val Asp Gly Gln Arg Pro Leu
 420 425 430
 Ala Val Ile His Ala Lys Asp Glu Ala Ser Trp Gln Asp Ala Ala Lys
 435 440 445
 Ala Val Lys Ala Ala Ile Ser Leu Asp Asp Lys Ala Pro Glu Thr Thr
 450 455 460
 Pro Thr Val Tyr Arg Arg Ile Thr Glu
 465 470

<210> 8453

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8453

Asn Ser Gly Ala Gly Ser Leu Asn Asp Gly Gln Pro Ala Ala Arg
 1 5 10 15
 Gly Gly Arg Ser Gly Thr Glu Pro Pro Gly Asp Pro Ala Gly Gly Ala
 20 25 30
 Ala Pro Ser Arg Arg Ser Ala Asn Gly Gly Ser Gly Arg Val Arg Gln
 35 40 45
 Cys Gly Trp Trp Gly Glu Gly Tyr Gly Asn Gln Arg Gly Pro Gly Ala
 50 55 60
 Ala Ala Gly Asn Gly Phe Gln Pro Ala Arg Gln Thr Val Ala Ala Gly
 65 70 75 80
 Ser Gly Gly Ile Trp
 85

<210> 8454

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 8454

Phe Met Ser Ser Phe Asp Tyr Ile Lys Thr Ala Ile Arg Gln Lys Gly
 1 5 10 15
 Cys Thr Leu Gln Gln Val Ala Asp Ala Ser Gly Met Thr Lys Gly Tyr
 20 25 30
 Leu Ser Gln Leu Leu Asn Ala Lys Ile Lys Ser Pro Ser Ala Gln Lys
 35 40 45
 Leu Glu Ala Leu His Arg Phe Leu Gly Leu Glu Phe Pro Arg Met Gln

50	55	60
Lys Asn Ile Gly Val Val Phe Gly Lys Phe Tyr Pro Leu His Thr Gly		
65	70	75
His Ile Tyr Leu Ile Gln Arg Ala Cys Ser Gln Val Asp Glu Leu His		80
	85	90
Ile Ile Met Gly Tyr Asp Glu Thr Arg Asp Arg Gln Leu Phe Glu Asp		95
	100	105
Ser Ala Met Ser Gln Gln Pro Thr Val Pro Asp Arg Leu Arg Trp Leu		110
	115	120
Leu Gln Thr Phe Lys Tyr Gln Lys Asn Ile Arg Ile His Ala Phe Asn		125
	130	135
Glu Glu Gly Met Glu Pro Tyr Pro His Gly Trp Asp Val Trp Ser Asn		140
	145	150
Gly Ile Lys Ala Phe Met Glu Glu Lys Gly Ile Ala Pro Asn Trp Ile		155
	165	170
Tyr Thr Ser Glu Glu Ser Asp Ala Pro Gln Phe Arg Glu His Leu Gly		175
	180	185
Ile Glu Thr Val Leu Ile Asp Pro Lys Arg Thr Phe Met Asn Ile Ser		190
	195	200
Gly Ala Gln Ile Arg Glu Asn Pro Phe Arg Tyr Trp Asp Tyr Ile Pro		205
	210	215
Thr Glu Val Lys Pro Phe Phe Val Arg Thr Val Ala Ile Leu Gly Gly		220
	225	230
Glu Ser Ser Gly Lys Ser Thr Leu Val Asn Lys Leu Ala Asn Ile Phe		235
	245	250
Asn Thr Thr Ser Ala Trp Glu Tyr Gly Arg Asp Tyr Val Phe Ser His		255
	260	265
Leu Gly Gly Asp Glu Met Ala Leu Gln Tyr Ser Asp Tyr Asp Lys Ile		270
	275	280
Ala Leu Gly His Ala Gln Tyr Ile Asp Phe Ala Val Lys Tyr Ala Asn		285
	290	295
Lys Val Ala Phe Ile Asp Thr Asp Phe Val Thr Thr Gln Ala Phe Cys		300
	305	310
Lys Lys Tyr Glu Gly Arg Glu His Pro Phe Val Gln Ala Leu Ile Asp		315
	325	330
Glu Tyr Arg Phe Asp Leu Val Ile Leu Leu Glu Asn Asn Thr Pro Trp		335
	340	345
Val Ala Asp Gly Met Arg Ser Leu Gly Ser Ser Val Asp Arg Arg Glu		350
	355	360
Phe Gln Thr Met Leu Val Glu Met Leu Asn Glu Asn Asn Val Glu Phe		365
	370	375
Val His Val Glu Glu Ser Asp Tyr Asp Thr Arg Phe Leu Arg Cys Val		380
	385	390
Glu Leu Val Lys Glu Met Met Gly Glu Gln Gly		395
	405	410

<210> 8455

<211> 661

<212> PRT

<213> Enterobacter cloacae

<400> 8455

Arg Gly Lys Thr Leu Gln Leu Thr Lys Asn Asn Glu Glu Glu Leu Val		
1	5	10
Glu Lys Ala Lys Arg Val Val Trp Arg Leu Leu Ala Ala Ser Val Cys		15
	20	25
Val Met Ala Val Ser Gln Ala Val His Ala Asp Ser Leu Asp Glu Gln		30
	35	40
Arg Ser Arg Tyr Ala Gln Ile Lys Gln Ala Trp Asp Asn Lys Gln Met		45
	50	55
Asp Thr Val Gln Ala Leu Met Pro Thr Leu Lys Asp Tyr Pro Leu Tyr		60

[illegible]

Gln Leu Leu Asp Pro Glu Thr Asn Ile Asn Ile Gly Thr Ser Tyr Leu
 565 575
 Gln Tyr Val Tyr Gln Gln Phe Gly Asn Asn Arg Ile Phe Ala Ser Ala
 580 585 590
 Ala Tyr Asn Ala Gly Pro Gly Arg Val Arg Thr Trp Leu Gly Asn Ser
 595 600 605
 Ala Gly Arg Ile Asp Ala Val Ala Phe Val Glu Ser Ile Pro Phe Ser
 610 615 620
 Glu Thr Arg Gly Tyr Val Lys Asn Val Leu Ala Tyr Asp Ala Tyr Tyr
 625 630 635 640
 Arg Tyr Phe Met Gly Gln Lys Asp Thr Leu Met Ser Asp Ala Glu Trp
 645 650 655
 Gln Arg Arg Tyr
 660

<210> 8456

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 8456

His Ala Phe Phe Pro Leu Tyr Cys Asp Glu Phe Phe Lys Ser Ser Leu
 1 5 10 15
 Ile Met His His Val Val Ser Ala Thr Thr Asn Pro Ala Lys Ile Gln
 20 25 30
 Ala Ile Leu Arg Ala Phe Glu Glu Ile Phe Gly Glu Gly Ser Cys His
 35 40 45
 Ile Asp Ala Val Gly Val Glu Ser Gly Val Pro Glu Gln Pro Phe Gly
 50 55 60
 Ser Glu Glu Thr Arg Ala Gly Ala Arg Asn Arg Val Ala Asn Ala Lys
 65 70 75 80
 Ala Ala Ala Pro Asp Ala Asp Phe Trp Val Ala Ile Asp Ala Gly Ile
 85 90 95
 Asp Glu Gly Ala Thr Phe Ser Trp Val Val Ile Glu Ser Arg Glu Gln
 100 105 110
 Arg Gly Glu Ala Arg Ser Ala Thr Leu Pro Leu Pro Glu Val Ile Leu
 115 120 125
 Glu Lys Val Arg Ala Gly Glu Ala Leu Gly Pro Val Met Ser His Tyr
 130 135 140
 Thr Gly Ile Asp Asp Ile Gly Arg Lys Glu Gly Ala Ile Gly Val Phe
 145 150 155 160
 Thr Ala Gly Lys Leu Thr Arg Ser Ser Val Tyr His Gln Ala Val Ile
 165 170 175
 Leu Ala Leu Ser Pro Phe His Asn Ala Ile Tyr Arg
 180 185

<210> 8457

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 8457

Thr Ser Leu Asn Lys Thr Asn Ala Ile Glu Glu His Thr Met Ser Val
 1 5 10 15
 Lys Ala Ile Ala Val Asn Pro Glu Asn Pro Ser Thr Phe Val Glu Ile
 20 25 30
 Thr Pro Pro Met Pro Gln Pro Gly Glu His Asp Leu Leu Val Glu Val
 35 40 45
 Lys Ala Val Ser Val Asn Pro Val Asp Thr Lys Val His Ala Gly Ile
 50 55 60
 Ala Lys Ser Gly Leu Lys Glu Pro Arg Ile Leu Gly Trp Asp Ala Ser

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65          70          75          80
Gly Ile Val Lys Ala Val Gly Ala Gly Val Thr Gly Phe Lys Pro Gly
      85          90
Asp Glu Val Trp Tyr Ala Gly Asp Ile Thr Arg Pro Gly Ser Asn Thr
      100          105          110
Thr His Gln Leu Ile Asp Ala Arg Ile Val Gly His Lys Pro Ala Ser
      115          120          125
Leu Asp Trp Ala Ala Ala Ala Leu Pro Leu Thr Ala Leu Thr Ala
      130          135          140
Trp Glu Gly Leu Phe Glu Arg Leu Lys Ile Gln Asp Ala Asp Ala Asp
145          150          155          160
Lys Thr Leu Leu Ile Ile Gly Gly Ala Gly Gly Val Gly Ser Leu Ala
      165          170          175
Ile Pro Phe Ala Lys His Asn Ser Lys Val Lys Ile Val Ala Thr Ala
      180          185          190
Ser Arg Glu Asp Ser Ala Gln Trp Cys Arg Asp Arg Gly Ala Asp Ile
      195          200          205
Val Val Asn Tyr Arg Asp Leu Lys Gly Glu Met Ala Lys Gln Gly Leu
      210          215          220
Thr Phe Val Asp Tyr Ile Phe Ile Leu Asn Asp Thr Asp Gly His Trp
225          230          235          240
Asp Ala Val Ser Asp Leu Ile Ala Pro Gln Gly His Ile Cys Ser Ile
      245          250          255
Val Glu Asn Ala His Pro Leu Asn Gln Asp Lys Leu Lys Ser Lys Ser
      260          265          270
Ala Ala Leu His Trp Glu Phe Met Tyr Thr Arg Ser Met Tyr Gln Thr
      275          280          285
Ala Asp Met Ala Arg Gln Gly Glu Ile Leu Asn Glu Val Ala Lys Leu
      290          295          300
Val Asp Asn Gly Val Val Glu Ser Ser Leu Ser Glu Thr Leu His Gly
305          310          315          320
Leu Ser Val Glu Ser Ile Thr Glu Ala His Arg Lys Val Leu Glu Gly
      325          330          335
His Met Arg Gly Lys Val Val Val Glu Tyr
      340          345

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<210> 8458

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 8458

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Ile Ser Leu Ile Ile Asn Pro Ile Lys Cys Glu Leu Cys Leu Leu Leu
1          5          10          15
Thr Glu Glu Val Phe Cys Gln Val Lys Gly Leu Ile Leu Met Ser Val
      20          25          30
Glu Ser Thr Ile Ala Gln Cys Ala Ile Ala Ala Pro Leu Leu Phe Ser
      35          40          45
Ala Leu Phe Ala Gln Ala Tyr Ala Ala Gly Met Val Pro Glu Thr Thr
      50          55          60
Leu Leu Val Ile Glu Glu Ser Thr His Ser Gly Thr Met Asn Val Lys
65          70          75          80
Asn Thr Asp Thr Phe Pro Ala Leu Ile Tyr Thr Ile Ile Val Asp Leu
      85          90          95
Pro Asp Asp Thr Gly Val Thr Leu Asn Ala
      100          105

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<210> 8459

<211> 543

<212> PRT

<213> Enterobacter cloacae

<400> 8459

Leu Asn Arg Arg Tyr Pro Leu Ser Asp Gln Ser Ala Thr Arg Leu Ala
 1 5 10 15
 Ser Tyr Asn Ser Phe Thr Ile Arg Arg Thr Lys Glu Val Asn Met
 20 25 30
 Pro Asp Ala Leu Gln Gln Arg Cys Gln His Ile Val Thr Ser Pro Val
 35 40 45
 Leu Thr Pro Glu Gln Lys Arg His Phe Leu Ala Leu Glu Ala Glu Asn
 50 55 60
 Asn Leu Pro Tyr Pro Ala Leu Pro Glu Ala Ala Arg Ala Ala Leu Asp
 65 70 75 80
 Glu Gly Phe Ile Cys Asp Met Phe Glu Gly His Ala Pro Tyr Lys Pro
 85 90 95
 Arg Tyr Val Leu Pro Asp Tyr Ala Lys Phe Leu Ala Asn Gly Ser Glu
 100 105 110
 Trp Leu Glu Leu Glu Gly Ala Lys Asp Leu Asp Asp Ala Leu Ser Leu
 115 120 125
 Leu Thr Ile Leu Tyr His His Val Pro Ser Val Thr Ser Met Pro Val
 130 135 140
 Tyr Leu Gly Gln Leu Asp Glu Ile Leu Ser Pro Tyr Val Lys Ile Leu
 145 150 155 160
 Thr Gln Asp Glu Ile Asp Ser Arg Ile Lys Arg Phe Trp Arg Tyr Leu
 165 170 175
 Asp Arg Thr Leu Pro Asp Ala Phe Met His Ala Asn Ile Gly Pro Ala
 180 185 190
 Asp Thr Pro Val Thr Arg Ala Ile Leu Arg Ala Asp Ala Glu Leu Lys
 195 200 205
 Gln Val Ala Pro Asn Leu Thr Phe Ile Tyr Asp Pro Asp Val Thr Pro
 210 215 220
 Ser Asp Leu Leu Leu Ser Val Ala Lys Asn Ile Cys Glu Cys Ser Lys
 225 230 235 240
 Pro His Ile Ser Asn Gly Pro Val Asn Asp Lys Ile Phe Thr Lys Gly
 245 250 255
 Arg Tyr Gly Val Val Ser Cys Tyr Asn Ser Leu Pro Leu Ala Gly Gly
 260 265 270
 Gly Ser Thr Leu Val Arg Leu Asn Leu Lys Ala Ile Ala Glu His Ser
 275 280 285
 Arg Ser Pro Glu Asp Phe Phe Thr Arg Thr Leu Pro His Tyr Cys Gln
 290 295 300
 Gln Gln Ile Ala Ile Ile Asn Ala Arg Cys Asp Phe Leu Tyr Glu Gln
 305 310 315 320
 Ser Gly Phe Phe Glu Asn Ser Phe Leu Val Lys Glu Gly Leu Ile Asp
 325 330 335
 Ala Asp Arg Phe Val Pro Met Phe Gly Met Tyr Gly Leu Ala Glu Ala
 340 345 350
 Val Asn Val Leu Cys Gln Lys Ala Gly Ile Thr Gly Arg Tyr Gly Lys
 355 360 365
 Asn Glu Gln Ala Asn Ala Leu Gly Tyr Arg Ile Ser Glu Gln Leu Ala
 370 375 380
 Ala Phe Val Glu Asn Thr Pro Val Lys His Gly Trp Lys Gln Arg Ala
 385 390 395 400
 Met Leu His Ala Gln Ser Gly Ile Ser Ser Asp Ser Gly Thr Thr Pro
 405 410 415
 Gly Ala Arg Leu Pro Tyr Gly Asp Glu Pro Asp Pro Ile Ser His Leu
 420 425 430
 Leu Ala Val Ala Pro His His Lys His Tyr Ala Ser Gly Ile Ser Asp
 435 440 445
 Ile Leu Thr Leu Asp Glu Thr Val Lys Arg Asn Pro Gln Ala Val Val
 450 455 460
 Gln Leu Cys Leu Gly Ala Phe Arg Ala Gly Met Arg Glu Phe Thr Ala

465 470 475 480
 Asn Val Ala Gly Asn Asp Leu Val Arg Val Thr Gly Tyr Met Val Arg
 485 490 495
 Leu Ser Asp Leu Glu Lys Tyr Arg Glu Ala Gly Ser Arg Thr Asn Thr
 500 505 510
 Thr Trp Leu Gly Glu Glu Ala Ala Arg Asn Thr Arg Ile Leu Glu Arg
 515 520 525
 Gln Pro Arg Val Ile Ser His Glu Gln Gln Met Arg Phe Ser
 530 535 540

<210> 8460

<211> 588

<212> PRT

<213> Enterobacter cloacae

<400> 8460

His Ser Arg Arg Ser Trp Leu Gly Leu Gly Arg Glu Lys Gly Tyr Thr
 1 5 10 15
 Ser Arg Leu Lys Phe Ile Leu Ile Thr Ile Lys Glu Ala Lys Ser Asn
 20 25 30
 Val Ala Gln Phe Val Tyr Thr Met His Arg Val Gly Lys Val Val Pro
 35 40 45
 Pro Lys Arg His Ile Leu Lys Asn Ile Ser Leu Ser Phe Phe Pro Gly
 50 55 60
 Ala Lys Ile Gly Val Leu Gly Leu Asn Gly Ala Gly Lys Ser Thr Leu
 65 70 75 80
 Leu Arg Ile Met Ala Gly Ile Asp Thr Asp Ile Glu Gly Glu Ala Arg
 85 90 95
 Pro Gln Pro Gly Ile Lys Ile Gly Tyr Leu Pro Gln Glu Pro Gln Leu
 100 105 110
 Asn Pro Glu Ser Thr Val Arg Glu Ser Val Glu Glu Ala Val Ser Glu
 115 120 125
 Val Val Asn Ala Leu Lys Gly Leu Asp Glu Val Tyr Ala Lys Tyr Ala
 130 135 140
 Glu Pro Asp Ala Asp Phe Asp Lys Leu Ala Ala Gln Gln Gly Lys Tyr
 145 150 155
 Glu Glu Ile Ile Gln Ala His Asp Gly His Asn Leu Asn Val Gln Leu
 165 170 175
 Glu Arg Ala Ala Asp Ala Leu Arg Leu Pro Asp Trp Asp Ala Lys Ile
 180 185 190
 Ala Asn Leu Ser Gly Gly Glu Arg Arg Val Ala Leu Cys Arg Leu
 195 200 205
 Leu Leu Glu Lys Pro Asp Met Leu Leu Leu Asp Glu Pro Thr Asn His
 210 215 220
 Leu Asp Ala Glu Ser Val Ala Trp Leu Glu Arg Phe Leu His Asp Phe
 225 230 235
 Glu Gly Thr Val Val Ala Ile Thr His Asp Arg Tyr Phe Leu Asp Asn
 245 250 255
 Val Ala Gly Trp Ile Leu Glu Leu Asp Arg Gly Glu Gly Ile Pro Trp
 260 265 270
 Glu Gly Asn Tyr Ser Ser Trp Leu Glu Gln Lys Asp Gln Arg Leu Ala
 275 280 285
 Gln Glu Ala Ser Gln Glu Ala Ala Arg Arg Lys Ser Ile Glu Lys Glu
 290 295 300
 Leu Glu Trp Val Arg Gln Gly Ala Lys Gly Arg Gln Ser Lys Gly Lys
 305 310 315
 Ala Arg Leu Ala Arg Phe Glu Glu Leu Asn Asn Thr Glu Tyr Gln Lys
 325 330 335
 Arg Asn Glu Thr Asn Glu Leu Phe Ile Pro Pro Gly Ala Arg Leu Gly
 340 345 350
 Asp Lys Val Val Glu Val Thr Asn Leu Arg Lys Ser Tyr Gly Asp Arg

355 360 365
 Val Leu Ile Asp Asp Leu Thr Phe Ser Val Pro Lys Gly Ala Ile Val
 370 375 380
 Gly Ile Ile Gly Pro Asn Gly Ala Gly Lys Ser Thr Leu Phe Arg Met
 385 390 395 400
 Met Ser Gly Gln Glu Gln Pro Asp Ser Gly Ser Ile Thr Leu Gly Glu
 405 410 415
 Thr Val Lys Leu Ala Ser Val Asp Gln Phe Arg Asp Ala Met Asp Asn
 420 425 430
 Ser Lys Thr Val Trp Glu Glu Val Ser Gly Gly Leu Asp Ile Met Arg
 435 440 445
 Ile Gly Asn Thr Glu Met Pro Ser Arg Ala Tyr Val Gly Arg Phe Asn
 450 455 460
 Phe Lys Gly Thr Asp Gln Gly Lys Arg Val Gly Glu Leu Ser Gly Gly
 465 470 475 480
 Glu Arg Gly Arg Leu His Leu Ala Lys Leu Glu Gln Val Gly Gly Asn
 485 490 495
 Val Leu Leu Leu Asp Glu Pro Thr Asn Asp Leu Asp Ile Glu Thr Leu
 500 505 510
 Arg Ala Leu Glu Asn Ala Leu Leu Glu Phe Pro Gly Cys Ala Met Val
 515 520 525
 Ile Ser His Asp Arg Trp Phe Leu Asp Arg Ile Ala Thr His Ile Leu
 530 535 540
 Asp Tyr Gln Asp Glu Gly Lys Val Glu Phe Phe Glu Gly Asn Phe Thr
 545 550 555 560
 Glu Tyr Glu Glu Tyr Lys Lys Arg Thr Leu Gly Ala Asp Ala Leu Glu
 565 570 575
 Pro Lys Arg Ile Lys Tyr Lys Arg Ile Ala Lys
 580 585

<210> 8461

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 8461

Ile Leu Ser Arg Trp Asn Met Ala Arg Ala Lys Leu Lys Phe Arg Leu
 1 5 10 15
 His Arg Ala Val Ile Val Leu Ile Cys Leu Ala Leu Val Val Ala Leu
 20 25 30
 Met Gln Gly Ala Ser Trp Phe Ser Gln Asn His Gln Arg Gln Arg Asn
 35 40 45
 Pro Gln Phe Glu Glu Leu Gly Arg Thr Leu Ala Arg Gln Val Thr Leu
 50 55 60
 Asn Val Ala Pro Ser Met Arg Thr Glu Thr Pro Asp Asp Lys Arg Ile
 65 70 75 80
 Ala Leu Val Leu Arg Gln Leu Thr Glu Asn Ser Arg Ile Leu Asp Ala
 85 90 95
 Gly Val Tyr Asp Glu Gln Gly Asp Leu Ile Ala Arg Ala Gly Glu His
 100 105 110
 Val Asp Val Arg Asp Arg Leu Ala Leu Asp Gly Lys Lys Ala Gly Gly
 115 120 125
 Tyr Phe Asn Gln Gln Ile Val Glu Pro Ile Gln Gly Lys Asn Gly Pro
 130 135 140
 Leu Gly Tyr Leu Arg Leu Thr Leu Asp Thr His Thr Leu Pro Thr Glu
 145 150 155 160
 Ala Lys Gln Val Asp Asn Thr Thr Asn Ile Leu Arg Leu Met Leu Leu
 165 170 175
 Leu Ser Leu Ala Ile Gly Val Val Leu Ala Arg Thr Leu Leu Gln Gly
 180 185 190
 Lys Arg Thr Arg Trp Gln Gln Ser Pro Phe Leu Leu Thr Ala Ser Lys

195 200 205
 Ser Val Pro Glu Glu Glu Glu Ser Glu Lys Lys Glu
 210 215 220

<210> 8462

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 8462

Ser Arg Arg Met Ile Arg Lys Arg Asn Ser Ala Met Ser Thr Leu Arg
 1 5 10 15
 Leu Leu Ile Ser Asp Ser Tyr Asp Pro Trp Phe Asn Leu Ala Val Glu
 20 25 30
 Glu Cys Ile Phe Arg Gln Met Pro Ala Thr Gln Arg Val Leu Phe Leu
 35 40 45
 Trp Arg Asn Ala Asp Thr Val Val Ile Gly Arg Ala Gln Asn Pro Trp
 50 55 60
 Lys Glu Cys Asn Thr Arg Arg Met Glu Glu Asp Asn Val Arg Leu Ala
 65 70 75 80
 Arg Arg Ser Ser Gly Gly Gly Ala Val Phe His Asp Leu Gly Asn Thr
 85 90 95
 Cys Phe Thr Phe Met Ala Gly Lys Pro Glu Tyr Asp Lys Thr Ile Ser
 100 105 110
 Thr Ser Ile Val Leu Asn Ala Leu Asn Ser Leu Gly Val Thr Ala Glu
 115 120 125
 Ala Ser Gly Arg Asn Asp Leu Val Val Lys Thr Pro Asp Gly Asp Arg
 130 135 140
 Lys Val Ser Gly Ser Ala Tyr Arg Glu Thr Met Asp Arg Gly Phe His
 145 150 155 160
 His Gly Thr Leu Leu Asn Ala Asp Leu Ser Arg Leu Ala Asn Tyr
 165 170 175
 Leu Asn Pro Asp Lys Lys Lys Leu Gln Ala Lys Gly Ile Thr Ser Val
 180 185 190
 Arg Gly Arg Val Ala Asn Leu Val Glu Leu Leu Pro Gly Ile Thr His
 195 200 205
 Glu Gln Ile Cys Asp Ala Ile Arg Glu Ala Phe Phe Glu His Tyr Gly
 210 215 220
 Glu Arg Val Glu Ala Glu Val Ile Ser Pro Asp Lys Thr Pro Asp Leu
 225 230 235 240
 Pro Asn Phe Ala Glu Thr Phe Ala Arg Gln Ser Ser Trp Glu Trp Asn
 245 250 255
 Phe Gly Gln Ala Pro Ala Phe Ser His Leu Leu Asp Glu Arg Phe Thr
 260 265 270
 Trp Gly Gly Val Glu Leu His Phe Asp Val Glu Lys Gly His Ile Thr
 275 280 285
 Arg Thr Gln Val Phe Thr Asp Ser Leu Asn Pro Ala Pro Leu Glu Ala
 290 295 300
 Leu Ala Ala Arg Leu Gln Gly Cys Leu Tyr His Ala Asp Ser Leu Gln
 305 310 315 320
 Gln Ala Cys Glu Ala Leu Trp Val Asp Phe Pro Asp His Glu Arg Glu
 325 330 335
 Leu Arg Asp Leu Ser Gln Trp Ile Ala Gly Ala Val Arg
 340 345 350

<210> 8463

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 8463

Gly Leu Thr Met Lys Lys Ile Ile Ile Ala Thr Ala Val Ala Met Thr
 1 5 10 15
 Leu Ser Ala Thr Ala His Ala Asp Ser Thr Ala Val Leu Lys Leu Lys
 20 25 30
 Gly Val Leu Thr Asn Asn Ala Cys Thr Pro Thr Leu Ser Asp Gly Ala
 35 40 45
 Val Val Asp Phe Gly Thr Lys Tyr Ile Ser Ser Leu Ser Ala Thr Ala
 50 55 60
 Asp Asn Gln Leu Gly Tyr Lys Asp Ile Ser Leu Thr Ile Asn Cys Ser
 65 70 75 80
 Ala Ala Thr Lys Val Ala Trp Ser Ile Thr Asp Asp His Ala Asp Ser
 85 90 95
 Met Lys Lys Met Thr Ile Asp Asn Ala Thr Phe Ala Gly Asp Gln Ala
 100 105 110
 Trp Ser Ser Thr Asn Gln Tyr Gly Val Gly Lys Thr Ala Gly Gly Val
 115 120 125
 Asn Ile Gly Ala Tyr Ser Val Gly Met Asn Ser Asn Val Thr Val Asp
 130 135 140
 Gly Asn Val Lys Ala Leu Gly Tyr Ser Ala Ile Ala Asp Asp Pro Met
 145 150 155 160
 Trp Leu Leu Ala Asn Thr Gly Ser Gln Leu Val Thr His Ser Asp Gly
 165 170 175
 Ser Ile Gln Tyr Ser Ala Leu Asn Ser Ser Asp Arg Thr Leu Val Pro
 180 185 190
 Phe Met Asn Ala Val Phe Pro Leu Arg Val Ala Leu Ala Val Gln Lys
 195 200 205
 Thr Asp Thr Leu Ala Ile Thr Asp Asp Thr Pro Ile Asp Gly Gln Ala
 210 215 220
 Thr Ile Thr Leu His Tyr Leu
 225 230

<210> 8464

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 8464

Gly Thr Thr Met Lys Lys Ile Leu Val Ala Thr Ala Val Ala Leu Ala
 1 5 10 15
 Leu Ser Ala Thr Ala Ala Asn Ala Ala Ser Thr Ala Val Leu Lys Val
 20 25 30
 Thr Gly Leu Leu Ser Val Ala Ala Cys Thr Pro Gln Leu Ser Gly Gly
 35 40 45
 Gly Gly Val Asp Tyr Gly Leu Ile His Leu Ala Asp Leu Ser Ala Thr
 50 55 60
 Ser Val Asn Gln Leu Gly Gln Lys Asp Ile Ser Leu Thr Ile Thr Cys
 65 70 75 80
 Pro Val Ala Thr Lys Ala Gly Trp Thr Ile Ser Asp Asp Arg Ala Asp
 85 90 95
 Thr His Pro Gly Ala Ser Val Ile Thr Ile Asn Thr Ala Asp Ala Ala
 100 105 110
 Gly Gly Asn Val Ser Asp Thr Thr Gln Ser Tyr Gly Val Gly Lys Thr
 115 120 125
 Ala Gly Gly Val Lys Ile Gly Ala Tyr Ser Ile Phe Ala Asp Val Ala
 130 135 140
 Asn Val Thr Ala Asp Gly Val Lys Ser Asp Val Ile Ser Gly Thr Val
 145 150 155 160
 Asp Ser Pro Ser Trp Gln Lys Thr Ala Thr Gly Ile Ile Lys Asn Ala
 165 170 175
 Asn Met Glu Met Met Thr Val Ala Ala Ser Gly Thr Thr Ala Pro Leu
 180 185 190

Pro Phe Thr Thr Ala Val Phe Pro Leu Lys Thr Ser Leu Ala Ile Gln
 195 200
 Asn Thr Ala Ala Leu Ala Ile Thr Asp Asp Thr Asn Leu Asp Gly Gln
 210 215 220
 Ala Thr Ile Thr Val Lys Tyr Leu
 225 230

<210> 8465

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 8465

Val Met Asn Ser Arg Cys Ala Leu Val Ser Gln Val Ile Pro Phe Ser
 1 5 10 15
 Cys Val Asp Gly Pro Gly Ser Arg Leu Ala Leu Phe Leu Gln Gly Cys
 20 25 30
 Asn Leu Arg Cys Lys Thr Cys His Asn Pro Trp Thr Ile Gly Arg Cys
 35 40 45
 Asn Asp Cys Gly Asp Cys Val Pro His Cys Pro His Asp Ala Leu Thr
 50 55 60
 Ile Gln Ala Gly Arg Val Trp Trp Gln Glu Ser His Cys Gln Gln Cys
 65 70 75 80
 Asp Thr Cys Leu His Leu Cys Gln Gln Gln Ala Thr Pro Met Ala Gln
 85 90 95
 Arg Tyr Ser Val Glu Glu Ile Leu Ser Arg Val Leu Thr Ser Ala Pro
 100 105 110
 Phe Ile Glu Gly Val Thr Val Ser Gly Gly Glu Ala Thr Thr Gln Leu
 115 120 125
 Pro Phe Leu Val Ala Leu Phe Thr Ala Ile Lys Ala Asp Pro Ser Leu
 130 135 140
 Arg His Leu Thr Cys Leu Val Asp Ser Asn Gly Leu Leu Ser Glu Thr
 145 150 155 160
 Gly Trp Gln Lys Leu Phe Pro Val Phe Asp Gly Ala Met Val Asp Leu
 165 170 175
 Lys Ala Trp Gly Asn Glu His His Arg Phe Leu Thr Gly Arg Glu Asn
 180 185 190
 Thr Leu Ile Lys Gln Ser Ile Arg Trp Leu Ala Asp Arg His Arg Leu
 195 200 205
 Thr Glu Leu Arg Leu Leu Val Ile Pro Asp Arg Cys Asp Tyr Leu Gln
 210 215 220
 His Leu Pro Ser Leu Thr Ala Phe Ile His Thr Leu Glu Asn Val Pro
 225 230 235 240
 Val Arg Ile Asn Ala Phe His Ala His Gly Val Tyr Gly Glu Ala Ala
 245 250 255
 Arg Trp Arg Ser Ala Thr Pro Glu Asp Ile Glu Pro Leu Ala Gln Ala
 260 265 270
 Leu Glu Arg Gln Gln Ile Thr Val Ile Arg Pro Ala Leu Tyr Leu
 275 280 285

<210> 8466

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 8466

Arg Arg Ile Asp Leu Asn Glu Leu Leu Val Ala His Pro Ser Ser Thr
 1 5 10 15
 Tyr Phe Val Lys Ala Ala Gly Asp Ser Met Ile Glu Gly Gly Ile Asn
 20 25 30
 Asn Gly Asp Leu Leu Val Val Asp Ser Ser Arg Lys Pro Glu His Gly


```

      35              40              45
Asp Ile Val Ile Ala Ala Val Glu Gly Glu Phe Thr Val Lys Arg Leu
  50              55              60
Gln Leu Arg Pro Asn Ile Gln Leu Asn Pro Met Asn Ser Ala Tyr Ser
  65              70              75
Pro Ile Ile Val Gly Ser Asp Asp Thr Leu Asp Ile Phe Gly Val Val
      85              90              95
Thr Tyr Ile Val Lys Ser Ala Ser
  100              105

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<210> 8467

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 8467

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Ser Arg His Tyr Ile Ser Pro Cys Ala Ala Ala Pro Arg Met Arg Arg
  1              5              10              15
Ser Thr Gly Met Arg Val Leu Ser Pro Gln Val Ala Ile Arg Tyr Met
      20              25              30
Ser Arg Val Ala Ala Trp Arg Leu Arg Arg Lys Thr Ser Ala Met Pro
  35              40              45
Ile Arg Ala Pro Cys Arg Ser Arg Phe Pro Pro Gly Ile Ala Leu Pro
  50              55              60
Glu Ser Gly Leu Arg Arg Val Ser Ala Pro Leu Leu Arg Leu Leu Ser
  65              70              75
Ile Trp Pro Ala His Arg Lys Ala Met Gln Cys Ile Pro Pro Ser Lys
      85              90              95
Arg Arg Cys Arg Met His Val Asn Val Arg Ile Thr Thr Phe Arg Tyr
      100              105              110
Thr Phe Ala Met Pro Pro Thr Lys Leu Met Lys Glu Met Gly Tyr Gly
  115              120              125
Gln Glu Tyr Arg Tyr Ala His Asp Glu Pro Asn Ala Tyr Ala Ala Gly
  130              135              140
Glu Glu Tyr Phe Pro Gln Glu Met Ala Gln Thr Arg Tyr Tyr His Pro
  145              150              155
Thr Asn Arg Gly Leu Glu Gly Lys Ile Gly Glu Lys Leu Ala Trp Leu
      165              170              175
Ala Gly Gln Asp Gln Asn Ser Pro Ile Lys Arg Tyr Arg
      180              185              190

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<210> 8468

<211> 817

<212> PRT

<213> Enterobacter cloacae

<400> 8468

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Val Phe Met Lys Ile Lys Ala Pro Glu Ala Leu Met Ala Ala Glu Val
  1              5              10              15
Thr Arg Arg Gly Leu Met Lys Thr Thr Ala Ile Gly Gly Leu Ala Val
      20              25              30
Ala Ser Ser Ala Phe Thr Leu Pro Phe Thr Arg Leu Ala Ser Ala Ala
  35              40              45
Glu Ala Leu Ser Pro Ala Ser Ala Pro Glu Lys Val Val Trp Ser Ala
  50              55              60
Cys Thr Val Asn Cys Gly Ser Arg Cys Pro Leu Arg Met His Val Val
  65              70              75
Asp Gly Glu Ile Lys Tyr Val Glu Thr Asp Asn Thr Gly Asp Asp Asn
      85              90              95
Tyr Glu Gly Leu His Gln Val Arg Ala Cys Leu Arg Gly Arg Ser Met
      100              105              110

```

Arg Arg Arg Val Tyr Asn Pro Asp Arg Leu Lys Tyr Pro Met Lys Arg
 115 120 125
 Val Gly Lys Arg Gly Glu Gly Lys Phe Glu Arg Ile Ser Trp Asp Glu
 130 135 140
 Ala Tyr Asp Ile Ile Ala Thr Asn Met Gln Arg Leu Ile Lys Glu Tyr
 145 150 155 160
 Gly Asn Glu Ser Ile Tyr Leu Asn Tyr Gly Thr Gly Thr Leu Gly Gly
 165 170 175
 Thr Met Thr Arg Ser Trp Pro Pro Gly Lys Thr Leu Val Ala Arg Leu
 180 185 190
 Met Asn Cys Cys Gly Gly Tyr Leu Asn His Tyr Gly Asp Tyr Ser Ser
 195 200 205
 Ala Gln Ile Ala Ala Gly Leu Asn Tyr Thr Tyr Gly Gly Trp Ala Asp
 210 215 220
 Gly Asn Ser Pro Ser Asp Ile Glu Asn Ser Lys Leu Val Val Leu Phe
 225 230 235 240
 Gly Asn Asn Pro Gly Glu Thr Arg Met Ser Gly Gly Gly Val Thr Tyr
 245 250 255
 Tyr Leu Glu Gln Ala Arg Ala Lys Ser Asn Ala Arg Met Ile Ile Val
 260 265 270
 Asp Pro Arg Tyr Thr Asp Thr Gly Ala Gly Arg Glu Asp Glu Trp Ile
 275 280 285
 Pro Ile Arg Pro Gly Thr Asp Ala Ala Leu Val Asn Ala Leu Ala Tyr
 290 295 300
 Val Met Ile Thr Glu Asn Leu Val Asp Gln Pro Phe Leu Asp Lys Tyr
 305 310 315 320
 Cys Val Gly Tyr Asp Glu Lys Thr Leu Pro Ala Ser Ala Pro Ala Asn
 325 330 335
 Gly His Tyr Lys Ala Tyr Ile Leu Gly Gln Gly Ser Asp Gly Val Ala
 340 345 350
 Lys Thr Pro Glu Trp Ala Ser Thr Ile Thr Gly Ile Pro Val Glu Arg
 355 360 365
 Ile Val Gln Leu Ala Arg Glu Ile Gly Ser Thr Lys Pro Ala Tyr Ile
 370 375 380
 Ser Gln Gly Trp Gly Pro Gln Arg His Ser Asn Gly Glu Ile Ala Thr
 385 390 395 400
 Arg Ala Ile Ser Met Leu Ser Ile Leu Thr Gly Asn Val Gly Ile His
 405 410 415
 Gly Gly Asn Ser Gly Ala Arg Glu Gly Ser Tyr Glu Val Pro Phe Glu
 420 425 430
 Arg Met Pro Thr Leu Asp Asn Pro Val Gln Thr Ser Ile Ser Met Phe
 435 440 445
 Met Trp Thr Asp Ala Ile Glu Arg Gly Pro Glu Met Thr Ala Leu Arg
 450 455 460
 Asp Gly Val Arg Gly Lys Asp Lys Leu Asp Val Pro Ile Lys Met Ile
 465 470 475 480
 Trp Asn Tyr Ala Gly Asn Cys Leu Ile Asn Gln His Ser Glu Ile Asn
 485 490 495
 Arg Thr His Glu Ile Leu Gln Asp Lys Lys Cys Glu Met Ile Val
 500 505 510
 Val Ile Asp Cys His Met Thr Ser Ala Lys Tyr Ala Asp Ile Leu
 515 520 525
 Leu Pro Asp Cys Thr Ala Ser Glu Gln Met Asp Phe Ala Leu Asp Ala
 530 535 540
 Ser Cys Gly Asn Met Ser Tyr Val Ile Phe Thr Asp Gln Ala Ile Lys
 545 550 555 560
 Pro Arg Phe Glu Cys Lys Thr Ile Tyr Glu Met Thr Ser Glu Leu Ala
 565 570 575
 Lys Arg Leu Gly Val Glu Gln Gln Phe Thr Glu Gly Arg Thr Gln Glu
 580 585 590
 Gly Trp Met Arg His Leu His Glu Leu Ser Arg Lys Ala Ile Pro Asp

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      595              600              605
Leu Pro Asp Phe Asp Thr Phe Arg Lys Gln Gly Met Tyr Lys Gln Arg
610              615              620
Asp Pro Glu Gly His His Val Ala Tyr Lys Ala Phe Arg Asp Asp Pro
625              630              635              640
Gln Ala Asn Pro Leu Thr Thr Pro Ser Gly Lys Ile Glu Ile Tyr Ser
645              650              655
Glu Glu Leu Ala Lys Ile Ala Ala Thr Trp Glu Leu Pro Glu Gly Asp
660              665              670
Val Ile Asp Pro Leu Pro Ile Tyr Thr Pro Gly Phe Glu Asn Tyr Asn
675              680              685
Asp Pro Leu Thr Glu Lys Phe Pro Leu Gln Leu Thr Gly Phe His Tyr
690              695              700
Lys Ala Arg Val His Ser Thr Tyr Gly Asn Val Asp Val Leu Lys Ala
705              710              715              720
Ala Cys Arg Gln Glu Met Trp Ile Asn Pro Met Asp Ala Lys Ala Arg
725              730              735
Gly Ile Ser Asn Gly Asp Arg Val Arg Ile Phe Asn Gly Arg Gly Glu
740              745
Val His Ile Glu Ala Lys Val Thr Pro Arg Met Met Pro Gly Val Val
755              760              765
Ala Leu Gly Glu Gly Ala Trp Tyr Asn Pro Asp Ala Asn Arg Ile Asp
770              775              780
Gln Ala Gly Cys Ile Asn Val Leu Thr Thr Gln Arg Pro Ser Pro Leu
785              790              795              800
Ala Lys Gly Asn Pro Ser His Thr Asn Leu Val Gln Val Glu Lys Ala
805              810              815

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<210> 8469

<211> 384

<212> PRT

<213> *Enterobacter cloacae*

<400> 8469

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Ser Met Thr Thr Tyr Thr Arg Pro Val Leu Leu Leu Cys Gly Leu
1              5              10              15
Leu Leu Leu Thr Leu Ala Ile Ala Val Leu Asn Thr Leu Val Pro Leu
20              25              30
Trp Leu Ala His Glu Asn Leu Pro Thr Trp Gln Val Gly Met Val Ser
35              40              45
Ser Ser Phe Phe Thr Gly Asn Leu Leu Gly Thr Leu Leu Thr Gly Ser
50              55              60
Leu Ile Lys Arg Phe Gly Phe Asn Arg Ser Tyr Tyr Leu Ala Ser Leu
65              70              75              80
Ile Phe Ala Val Gly Cys Ala Gly Leu Gly Leu Met Val Gly Phe Trp
85              90              95
Ser Trp Met Val Trp Arg Phe Ile Ala Gly Val Gly Cys Ala Met Ile
100              105              110
Trp Val Val Val Glu Ser Ala Leu Met Cys Ser Gly Thr Ser Arg Asn
115              120              125
Arg Gly Arg Leu Leu Ala Ala Tyr Met Met Val Tyr Tyr Val Gly Thr
130              135              140
Val Leu Gly Gln Leu Met Val Ser Lys Leu Pro Thr Asp Leu Met Ser
145              150              155              160
Val Leu Pro Trp Val Thr Gly Met Val Leu Ala Ala Ile Leu Pro Leu
165              170              175
Leu Phe Thr Arg Ile Val Asn Gln Asn Ser Glu His Gln Glu Ala Thr
180              185              190
His Val Trp Pro Met Leu Arg Leu Arg Gln Ala Arg Leu Gly Val Asn

```

195 200 205
 Gly Cys Ile Ile Ser Gly Ile Val Leu Gly Ser Leu Tyr Gly Leu Met
 210 215 220
 Pro Leu Tyr Leu Asn His Gln Gly Val Ser Asp Ser Gly Ile Gly Phe
 225 230 235 240
 Trp Met Ala Val Met Val Ser Ala Gly Ile Val Gly Gln Trp Pro Ile
 245 250 255
 Gly Arg Leu Ala Asp Arg Phe Gly Arg Leu Leu Val Leu Arg Val Gln
 260 265 270
 Val Phe Val Val Ile Met Gly Cys Leu Ala Met Leu Ser Asn Ala Ala
 275 280 285
 Met Ala Pro Ala Leu Phe Ile Leu Gly Ala Ala Gly Phe Thr Leu Tyr
 290 295 300
 Pro Val Ala Met Ala Trp Ala Cys Glu Lys Val Glu His His Gln Leu
 305 310 315
 Val Ala Met Asn Gln Ala Leu Leu Leu Ser Tyr Thr Ile Gly Ser Leu
 325 330 335
 Leu Gly Pro Thr Phe Thr Ala Met Leu Met Gln Asn Tyr Ser Asp Asn
 340 345 350
 Leu Leu Phe Ile Met Ile Ala Ser Val Ser Phe Ile Tyr Leu Leu Met
 355 360 365
 Leu Leu Arg Lys Val Gly Glu His Pro Thr Pro Val Ala His Ala
 370 375 380

<210> 8470
 <211> 256
 <212> PRT
 <213> Enterobacter cloacae

<400> 8470
 Arg Val Leu Ser Pro Ala Lys Ile Asn Gly Trp Ala Met Leu Ile Ser
 1 5 10 15
 Ser Asn Leu Leu Leu Arg His Arg Lys Met Lys Ala Phe Asp Leu Gln
 20 25 30
 Arg Met Ala Phe Asp Lys Val Pro Pro Glu Phe Leu Gly Glu Val Ala
 35 40 45
 Leu Arg Ser Leu Tyr Thr Phe Val Leu Val Phe Leu Phe Leu Lys Ile
 50 55 60
 Thr Gly Arg Arg Gly Val Arg Gln Met Ser Leu Phe Glu Val Leu Ile
 65 70 75 80
 Ile Leu Thr Leu Gly Ser Ala Ala Gly Asp Val Ala Phe Tyr Asp Asp
 85 90 95
 Val Pro Met Val Pro Val Phe Ile Val Phe Val Thr Leu Ala Leu Leu
 100 105 110
 Tyr Arg Leu Val Met Trp Leu Met Ser Lys Ser Glu Lys Leu Glu Asp
 115 120 125
 Leu Leu Glu Gly Lys Pro Val Val Ile Val Glu Asp Gly Gln Leu Ala
 130 135 140
 Trp Glu Asn Val Gln Ser Ala Asn Met Thr Glu Phe Glu Phe Phe Met
 145 150 155 160
 Glu Leu Arg Leu Ser Val Glu Gln Leu Glu Gln Val Arg Leu Ala
 165 170 175
 Ile Met Glu Thr Asn Gly Gln Ile Ser Val Tyr Tyr Tyr Pro Asp Asp
 180 185 190
 Glu Val Lys Pro Gly Leu Cys Ile Leu Pro Asp Met Leu Ile Glu Arg
 195 200 205
 Tyr Lys Thr Val Pro Glu Ala Gly Glu Tyr Ala Cys Ile Lys Cys Ser
 210 215 220
 His Val Val Val Met Gln Ala Gly Asp His Gln Leu Cys Pro Arg Cys
 225 230 235 240
 Thr Asn Pro Glu Trp Thr Lys Val Ser Arg Ala Lys Arg Ile Thr

245

250

255

<210> 8471

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 8471

Gly Glu Met Ala Gln Val Phe Asn Phe Ser Ser Gly Pro Ala Met Leu
 1 5 10 15
 Pro Thr Asp Val Leu Lys Gln Ala Gln Gln Glu Leu Cys Asp Trp Asn
 20 25 30
 Gly Leu Gly Thr Ser Val Met Glu Val Ser His Arg Gly Lys Ala Phe
 35 40 45
 Ile Lys Val Ala Glu Glu Ala Glu Lys Asp Phe Arg Asp Leu Leu Asn
 50 55 60
 Ile Pro Ser Asn Tyr Lys Val Leu Phe Cys His Gly Gly Gly Arg Gly
 65 70 75 80
 Gln Phe Ala Gly Ile Pro Leu Asn Leu Leu Gly Asp Lys Thr Thr Ala
 85 90 95
 Asp Tyr Val Asp Ala Gly Tyr Trp Ala Ala Ser Ala Val Lys Glu Ala
 100 105 110
 His Lys Tyr Cys Thr Pro Asn Val Ile Asp Ala Lys Val Thr Val Asp
 115 120 125
 Gly Leu Arg Ala Val Lys Pro Met Ser Glu Trp Gln Leu Ser Asp Asn
 130 135 140
 Ala Ala Tyr Leu His Tyr Cys Pro Asn Glu Thr Ile Asp Gly Ile Ala
 145 150 155 160
 Ile His Glu Glu Pro Asp Phe Gly Glu Asn Val Ile Val Thr Ala Asp
 165 170 175
 Leu Ser Ser Thr Ile Leu Ser Thr Pro Leu Asp Val Ser Arg Tyr Gly
 180 185 190
 Val Ile Tyr Ala Gly Ala Gln Lys Asn Ile Gly Pro Ala Gly Leu Thr
 195 200 205
 Ile Val Ile Val Arg Glu Asp Leu Leu Gly Lys Ala His Lys Ser Cys
 210 215 220
 Pro Ser Ile Leu Asp Tyr Thr Val Leu Asn Asp Asn Asp Ser Met Phe
 225 230 235 240
 Asn Thr Pro Pro Thr Phe Ala Trp Tyr Leu Ser Gly Leu Val Phe Lys
 245 250 255
 Trp Leu Lys Leu Lys Gly Gly Val Ala Gln Met Asp Lys Ile Asn Gln
 260 265 270
 Gln Lys Ala Glu Leu Leu Tyr Gly Val Ile Asp Lys Ser Asp Phe Tyr
 275 280 285
 Arg Asn Asp Val Ala Lys Thr Asn Arg Ser Arg Met Asn Val Pro Phe
 290 295 300
 Gln Leu Ala Asp Ser Asn Leu Asp Asn Val Phe Leu Glu Glu Ser Phe
 305 310 315 320
 Ala Ala Gly Leu His Ala Leu Lys Gly His Arg Val Val Gly Gly Met
 325 330 335
 Arg Ala Ser Ile Tyr Asn Ala Met Pro Leu Glu Gly Val Lys Ala Leu
 340 345 350
 Thr Asp Phe Met Ile Asp Phe Glu Arg Arg His Gly
 355 360 365

<210> 8472

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 8472

Tyr Ala Leu Arg Arg Ser Phe Val Ser Ser Val Asp Glu Asp Gln Lys
 1 5 10 15
 Asp Gly Arg Ile Ser Thr Val Glu Leu Ser Lys Arg Val Gly Leu Ser
 20 25 30
 Pro Thr Pro Cys Leu Glu Arg Val Arg Arg Leu Glu Arg Gln Gly Phe
 35 40 45
 Ile Gln Gly Tyr Thr Ala Leu Leu Asn Pro His Tyr Leu Asp Ala Ser
 50 55 60
 Leu Leu Val Phe Val Glu Ile Thr Leu Asn Arg Gly Ala Pro Asp Val
 65 70 75 80
 Phe Glu Gln Phe Asn Ala Ala Val Gln Lys Leu Glu Glu Ile Gln Glu
 85 90 95
 Cys His Leu Val Ser Gly Asp Phe Asp Tyr Leu Leu Lys Thr Arg Val
 100 105 110
 Pro Asp Met Ser Ala Tyr Arg Lys Leu Leu Gly Glu Thr Leu Leu Arg
 115 120 125
 Leu Pro Gly Val Asn Asp Thr Arg Thr Tyr Val Val Met Glu Glu Val
 130 135 140
 Lys Gln Ser Asn Arg Leu Val Ile Lys Thr Arg
 145 150 155

<210> 8473

<211> 1235

<212> PRT

<213> Enterobacter cloacae

<400> 8473

His Thr Gly Arg Thr Cys Leu Ile Pro Gly Glu Pro Phe Leu Ser Gln
 1 5 10 15
 Glu Tyr Thr Glu Asp Lys Glu Val Thr Leu Ser Lys Leu Ser Ser Gly
 20 25 30
 Arg Arg Leu Leu Glu Ala Leu Leu Ile Val Ile Ala Leu Phe Ala Val
 35 40 45
 Trp Leu Met Ala Ala Leu Leu Ser Phe Asn Pro Ser Asp Pro Ser Trp
 50 55 60
 Ser Gln Thr Ala Trp His Glu Pro Ile His Asn Leu Gly Gly Val Pro
 65 70 75 80
 Gly Ala Trp Leu Ala Asp Thr Leu Phe Phe Ile Phe Gly Val Met Ala
 85 90 95
 Tyr Thr Leu Pro Val Ile Ile Gly Gly Cys Trp Phe Ala Trp Arg
 100 105 110
 His Arg Gln Asn Asp Asp Tyr Ile Asp Tyr Phe Ala Val Ser Leu Arg
 115 120 125
 Leu Ile Gly Ala Leu Ala Leu Ile Leu Thr Ser Cys Gly Leu Ala Ala
 130 135 140
 Ile Asn Ala Asp Asp Ile Trp Tyr Phe Ala Ser Gly Gly Val Ile Gly
 145 150 155 160
 Ser Leu Leu Ser Ser Ala Leu Gln Pro Met Leu His Ser Ser Gly Gly
 165 170 175
 Thr Leu Ala Leu Leu Cys Ile Trp Ala Ala Gly Leu Thr Leu Phe Thr
 180 185 190
 Gly Trp Ser Trp Val Ser Ile Ala Glu Lys Ile Gly Ser Phe Ile Leu
 195 200 205
 Thr Leu Leu Thr Phe Ala Ser Asn Arg Thr Arg Arg Asp Thr Trp
 210 215 220
 Val Asp Glu Asp Glu Tyr Glu Asp Glu Tyr Glu Glu Glu Asp Glu Ala
 225 230 235 240
 Pro Val Gln Arg Arg Glu Ser Arg Arg Ala Arg Ile Leu Arg Gly Ala
 245 250 255
 Leu Ala Arg Arg Gln Arg Val Ala Glu Lys Phe Ala Asn Pro Leu Gly
 260 265 270

Arg Lys Thr Asp Ala Ala Leu Phe Ser Gly Lys Arg Met Asp Glu Asp
 275 280
 Glu Gln Ile Glu Tyr Arg Gly Ala Ala Val Asp Pro Asp Asp Val Leu
 290 295
 Phe Ser Gly His Arg Ala Thr Pro Gly Glu Tyr Asp Glu Tyr Asp Pro
 305 310 315
 Leu Leu His Gly His Ser Val Thr Glu Pro Val Ala Ala Ala Val Ala
 325 330 335
 Ala Thr Thr Ala Ala Gln Ala His Val Ala Pro Val Glu Ala Val Met
 340 345 350
 Pro Ser Ser Pro Val Pro Ala Pro Glu Ser Ala Ile Gln Gln Pro Gln
 355 360 365
 Val Asp Trp Gln Thr Ala Pro Gly Val His Thr Pro Glu Pro Thr Ile
 370 375 380
 Ala Pro Glu Pro Glu Ser Tyr Ile Pro Val Gln Gln Glu Gln Cys Gln
 385 390 395
 Gln Ser Tyr Gln Pro Ser Glu Pro Ala Ser Glu Pro Gln Gln Pro Tyr
 405 410 415
 Gln Ala Tyr Thr Pro Glu Pro Ala Val Pro Glu Gln Pro Tyr Val Ala
 420 425 430
 Pro Val Ser Glu Pro Glu Val Val Glu Glu Ala Lys Pro Ser Arg Pro
 435 440 445
 Pro Leu Tyr Tyr Phe Glu Glu Val Glu Glu Arg Arg Ala Arg Glu Arg
 450 455 460
 Glu Gln Leu Ala Ala Trp Tyr Gln Pro Val Pro Glu Pro Val Gln Glu
 465 470 475
 Pro Val Val Lys Ala Pro Ser Ala Ser Val Ala Pro Val Asp Pro Ala
 485 490 495
 Pro Ala Val Ala Ser Gly Ala Glu Thr Val Lys Gln Ala Thr Ala Ala
 500 505 510
 Ala Ala Ala Ser Ala Pro Leu Phe Ser Pro Ala Thr Asp Ser Ala Pro
 515 520 525
 Arg Pro Gln Val Lys Glu Gly Ile Gly Pro Gln Leu Pro Arg Pro Asn
 530 535 540
 Arg Val Arg Val Pro Thr Arg Arg Glu Leu Ala Ser Tyr Gly Ile Lys
 545 550 555
 Leu Pro Ser Gln Arg Met Ala Glu Glu Lys Ala Arg Gly Ser Asp Tyr
 565 570 575
 Glu Asp Asp Ala Asp Glu Leu His Gln Asp Glu Leu Ala Arg Gln Phe
 580 585 590
 Ala Ala Gln Gln Asn Gln Arg Tyr Gly Asp Glu Tyr Gln His Asp Val
 595 600 605
 Pro Ser His Gln Glu Asp Asp Ala Ala Glu Ala Glu Leu Ala Arg
 610 615 620
 Gln Phe Ala Ala Thr Gln Gln Gln Arg Tyr Ser Gly Glu Gln Pro Ser
 625 630 635
 Gly Ala Asn Pro Phe Ser Leu Ser Asp Phe Glu Phe Ser Pro Met Lys
 645 650 655
 Asp Leu Val Asp Asp Gly Pro Ser Glu Pro Leu Phe Thr Pro Ser Val
 660 665 670
 Met Pro Glu Ala Glu Pro Val Arg Gln Ser Pro Pro Pro Gln Val Tyr
 675 680 685
 Ala Gln Pro Gln Gln Pro Ala Pro Gln Ala Tyr Ala Gln Pro Gln Thr
 690 695 700
 Pro Ala Gln Pro Pro Gln Pro Gln Phe Gln Gln Pro Ala Pro Gln Pro
 705 710 715
 Gln Glu Ser Leu Ile His Pro Leu Leu Met Arg Asn Gly Asp Ser Arg
 725 730 735
 Pro Leu Gln Arg Pro Ser Thr Pro Leu Pro Ser Leu Asp Leu Leu Thr
 740 745 750
 Pro Pro Pro Ala Glu Val Glu Pro Val Asp Thr Phe Ala Leu Glu Gln

755 760 765
 Met Ala Arg Leu Val Glu Ala Arg Leu Ala Asp Phe Arg Ile Lys Ala
 770 775 780
 Asp Val Val Asn Tyr Ser Pro Gly Pro Val Ile Thr Arg Phe Glu Leu
 785 790 795 800
 Asn Leu Ala Pro Gly Val Lys Ala Ala Arg Ile Ser Asn Leu Ser Arg
 805 810 815
 Asp Leu Ala Arg Ser Leu Ser Thr Val Ala Val Arg Val Val Glu Val
 820 825 830
 Ile Pro Gly Lys Pro Tyr Val Gly Leu Glu Leu Pro Asn Lys Lys Arg
 835 840 845
 Gln Thr Val Tyr Leu Arg Glu Val Leu Asp Asn Thr Lys Phe Arg Asp
 850 855 860
 Asn Pro Ser Pro Leu Thr Val Val Leu Gly Lys Asp Ile Ala Gly Asp
 865 870 875 880
 Pro Val Val Ala Asp Leu Ala Lys Met Pro His Leu Leu Val Ala Gly
 885 890 895
 Thr Thr Gly Ser Gly Lys Ser Val Gly Val Asn Ala Met Ile Leu Ser
 900 905 910
 Met Leu Tyr Lys Ala Gln Pro Glu Asp Val Arg Phe Ile Met Ile Asp
 915 920 925
 Pro Lys Met Leu Glu Leu Ser Val Tyr Glu Gly Ile Pro His Leu Leu
 930 935 940
 Thr Glu Val Val Thr Asp Met Lys Asp Ala Ala Asn Ala Leu Arg Trp
 945 950 955 960
 Ser Val Asn Glu Met Glu Arg Arg Tyr Lys Leu Met Ser Ala Leu Gly
 965 970 975
 Val Arg Asn Leu Ala Gly Tyr Asn Glu Lys Ile Ala Glu Ala Ala Arg
 980 985 990
 Met Gly Arg Pro Ile Pro Asp Pro Tyr Trp Lys Pro Gly Asp Ser Met
 995 1000 1005
 Asp Ala Gln His Pro Val Leu Glu Lys Leu Pro Tyr Ile Val Val Leu
 1010 1015 1020
 Val Asp Glu Phe Ala Asp Leu Met Met Thr Val Gly Lys Lys Val Glu
 1025 1030 1035 1040
 Glu Leu Ile Ala Arg Leu Ala Gln Lys Ala Arg Ala Ala Gly Ile His
 1045 1050 1055
 Leu Val Leu Ala Thr Gln Arg Pro Ser Val Asp Val Ile Thr Gly Leu
 1060 1065 1070
 Ile Lys Ala Asn Ile Pro Thr Arg Ile Ala Phe Thr Val Ser Ser Lys
 1075 1080 1085
 Ile Asp Ser Arg Thr Ile Leu Asp Gln Gly Gly Ala Glu Ser Leu Leu
 1090 1095 1100
 Gly Met Gly Asp Met Leu Tyr Ser Gly Pro Asn Ser Thr Ser Pro Val
 1105 1110 1115 1120
 Arg Val His Gly Ala Phe Val Arg Asp Gln Glu Val His Ala Val Val
 1125 1130 1135
 Gln Asp Trp Lys Ala Arg Gly Arg Pro Gln Tyr Val Asp Gly Ile Thr
 1140 1145 1150
 Ser Asp Ser Glu Ser Glu Gly Gly Gly Gly Phe Asp Gly Gly Glu
 1155 1160 1165
 Glu Leu Asp Pro Leu Phe Asp Gln Ala Val Asn Phe Val Thr Glu Lys
 1170 1175 1180
 Arg Lys Ala Ser Ile Ser Gly Val Gln Arg Gln Phe Arg Ile Gly Tyr
 1185 1190 1195 1200
 Asn Arg Ala Ala Arg Ile Ile Glu Gln Met Glu Ala Gln Gly Ile Val
 1205 1210 1215
 Ser Glu Gln Gly His Asn Gly Asn Arg Glu Val Leu Ala Pro Pro Pro
 1220 1225 1230
 Phe Asp
 1235

<210> 8474
 <211> 207
 <212> PRT
 <213> Enterobacter cloacae

<400> 8474
 Pro Met Thr Thr Gln Tyr Gly Phe Phe Ile Asp Ser Ser Arg Cys Thr
 1 5 10 15
 Gly Cys Lys Thr Cys Glu Leu Ala Cys Lys Asp Tyr Lys Asp Leu Thr
 20 25 30
 Pro Glu Val Ser Phe Arg Arg Ile Tyr Glu Tyr Ala Gly Gly Asp Trp
 35 40 45
 Gln Glu Asp Asn Gly Val Trp His Gln Asn Val Phe Ala Tyr Tyr Leu
 50 55 60
 Ser Ile Ala Cys Asn His Cys Glu Asp Pro Ala Cys Thr Lys Val Cys
 65 70 75 80
 Pro Ser Gly Ala Met His Lys Arg Asp Asp Gly Phe Val Val Val Asp
 85 90 95
 Glu Asp Val Cys Ile Gly Cys Arg Tyr Cys His Met Ala Cys Pro Tyr
 100 105 110
 Gly Ala Pro Gln Tyr Asn Ala Ala Lys Gly His Met Thr Lys Cys Asp
 115 120 125
 Gly Cys His Ser Arg Val Ala Asp Gly Lys Lys Pro Ile Cys Val Glu
 130 135 140
 Ser Cys Pro Leu Arg Ala Leu Asp Phe Gly Pro Ile Glu Glu Leu Arg
 145 150 155 160
 Lys Lys His Gly Gln Leu Ala Ala Val Ala Pro Leu Pro Ser Ala His
 165 170 175
 Phe Thr Lys Pro Ser Ile Val Ile Lys Pro Asn Ala Asn Ser Arg Pro
 180 185 190
 Thr Gly Asp Thr Thr Gly Tyr Leu Ala Asn Pro Lys Glu Val
 195 200 205

<210> 8475
 <211> 165
 <212> PRT
 <213> Enterobacter cloacae

<400> 8475
 Cys Gly Ile Ser Leu Arg Phe Leu Thr Leu Ile Leu Phe His Phe Phe
 1 5 10 15
 Tyr Thr Leu Leu Gln Ser Phe Arg Asn Leu His Ala Lys Val Thr Val
 20 25 30
 Ala His Val Gly Ala Tyr Asn Ala Arg Arg Ser Cys Lys Arg Tyr Ala
 35 40 45
 Leu Ile Lys Glu Lys Lys Met Thr Ala Ile Ala Pro Val Ile Thr Ile
 50 55 60
 Asp Gly Pro Ser Gly Ala Gly Lys Gly Thr Leu Cys Lys Ala Met Ala
 65 70 75 80
 Glu Ala Leu Gln Trp His Leu Leu Asp Ser Gly Ala Ile Tyr Arg Val
 85 90 95
 Leu Ala Leu Ala Leu His His His Val Asp Val Ala Ser Glu Glu
 100 105 110
 Ala Leu Val Pro Leu Ala Ala His Leu Asp Val Arg Phe Val Ser Thr
 115 120 125
 Asp Gly Asn Leu Glu Val Ile Leu Glu Gly Glu Asp Val Ser Gly Glu
 130 135 140
 Ile Arg Thr Gln Glu Val Ala Asn Ala Ala Ser Gln Val Ala Ala Phe
 145 150 155 160
 Pro Thr Arg Ser

165

<210> 8476
 <211> 109
 <212> PRT
 <213> Enterobacter cloacae

<400> 8476
 Ala Val Gln Leu Met Gly Leu Lys Gly Thr Gly Gly Ile Met Thr Lys
 1 5 10 15
 Ser Glu Leu Ile Glu Arg Leu Ala Ser Gln Gln Pro His Ile Pro Ala
 20 25 30
 Lys Ala Val Glu Asp Ala Val Lys Glu Met Leu Glu His Met Ala Thr
 35 40 45
 Thr Leu Ala Gln Gly Glu Arg Ile Glu Ile Arg Gly Phe Gly Ser Phe
 50 55 60
 Ser Leu His Tyr Arg Ala Pro Arg Thr Gly Arg Asn Pro Lys Thr Gly
 65 70 75 80
 Asp Lys Val Glu Leu Glu Gly Lys Tyr Val Pro His Phe Lys Pro Gly
 85 90 95
 Lys Glu Leu Arg Asp Arg Ala Asn Ile Tyr Gly Asn
 100 105

<210> 8477
 <211> 331
 <212> PRT
 <213> Enterobacter cloacae

<400> 8477
 Asn Ala Val Arg Ser Met Ile Ala Arg Ile Trp Ser Gly Glu Ser Pro
 1 5 10 15
 Leu Trp Val Leu Leu Leu Pro Leu Ser Trp Leu Tyr Gly Leu Val Ser
 20 25 30
 Gly Ala Ile Arg Leu Leu Tyr Arg Leu Gly Ile Lys Arg Ala Trp Arg
 35 40 45
 Ala Pro Val Pro Val Val Val Val Gly Asn Leu Thr Ala Gly Gly Asn
 50 55 60
 Gly Lys Thr Pro Val Val Ile Trp Leu Val Glu Gln Leu Gln Arg Arg
 65 70 75 80
 Gly Ile Arg Pro Gly Val Val Ser Arg Gly Tyr Gly Gly Lys Ala Ala
 85 90 95
 Gln Tyr Pro Leu Val Leu Ser Pro Ala Thr Thr Thr Ala Glu Ala Gly
 100 105 110
 Asp Glu Pro Val Leu Ile Tyr Gln Arg Thr Gly Ala Pro Val Ala Val
 115 120 125
 Ser Pro Val Arg Ser Asp Ala Val Lys Ala Leu Leu Ala Glu His Asn
 130 135 140
 Val Gln Ile Ile Ile Thr Asp Asp Gly Leu Gln His Tyr Ala Leu Ala
 145 150 155 160
 Arg Asp Lys Glu Ile Val Val Ile Asp Gly Val Arg Arg Phe Gly Asn
 165 170 175
 Gly Trp Trp Leu Pro Ala Gly Pro Met Arg Glu Arg Ala Ser Arg Leu
 180 185 190
 Lys Thr Val Asp Ala Val Ile Val Asn Gly Gly Glu Ala Arg Ala Val
 195 200 205
 Glu Ile Pro Met Leu Leu Arg Pro Gly Gln Ala Val Asn Met Leu Thr
 210 215 220
 Gly Glu Arg Lys Asp Val Ala Gln Leu Glu His Leu Val Ala Met Ala
 225 230 235 240
 Gly Ile Gly His Pro Pro Arg Phe Phe Ala Thr Leu Glu Gln Cys Gly
 245 250 255

Ala Arg Leu Glu Lys Arg Val Pro Leu Ala Asp His Gln Ala Leu Val
 260 265 270
 Ala Glu Glu Val Glu Arg Leu Ala Ala Pro Gly Gln Thr Leu Ile Met
 275 280
 Thr Glu Lys Asp Ala Val Lys Cys Arg Ala Phe Ala Lys Glu Asn Trp
 290 295 300
 Trp Tyr Leu Pro Val Asp Ala Glu Leu Ser Gly Glu Gln Pro Glu His
 305 310 315 320
 Leu Leu Lys Glu Leu Leu Ala Leu Val Gln
 325 330

<210> 8478

<211> 260

<212> PRT

<213> Enterobacter cloacae

<400> 8478

Ser Pro Phe Thr Gly Gly Arg Arg Asp Gln Thr Met Ser Phe Val Val
 1 5 10 15
 Ile Ile Pro Ala Arg Tyr Ala Ser Thr Arg Leu Pro Gly Lys Pro Leu
 20 25 30
 Val Asp Ile Asn Gly Lys Pro Met Ile Val His Val Leu Glu Arg Ala
 35 40 45
 Arg Glu Ser Gly Ala Gly Arg Val Ile Val Ala Thr Asp His Pro Asp
 50 55 60
 Val Ala Arg Ala Val Glu Ala Ala Gly Gly Glu Val Cys Met Thr Arg
 65 70 75 80
 Ala Asp His Gln Ser Gly Thr Glu Arg Leu Ala Glu Val Val Glu Lys
 85 90 95
 Cys Gly Phe Ser Asp Glu Thr Val Ile Val Asn Val Gln Gly Asp Glu
 100 105 110
 Pro Met Ile Pro Ala Ala Ile Ile Arg Gln Val Ala Asp Asn Leu Ala
 115 120 125
 Arg Arg Gln Val Gly Met Ala Thr Leu Ala Val Pro Ile His His Ala
 130 135 140
 Glu Glu Ala Phe Asn Pro Asn Ala Val Lys Val Val Met Asp Ala Glu
 145 150 155 160
 Gly Tyr Ala Leu Tyr Phe Ser Arg Ala Thr Ile Pro Trp Asp Arg Asp
 165 170 175
 Arg Phe Ala Gln Ser Lys Glu Thr Ile Gly Glu Thr Phe Leu Arg His
 180 185 190
 Ile Gly Ile Tyr Gly Tyr Arg Ala Gly Phe Ile Arg Arg Tyr Val Ala
 195 200 205
 Trp Ala Pro Ser Pro Leu Glu His Ile Glu Met Leu Glu Gln Leu Arg
 210 215 220
 Val Leu Trp Tyr Gly Glu Lys Ile His Val Ala Val Ala Gln Glu Ile
 225 230 235 240
 Pro Gly Thr Gly Val Asp Thr Pro Glu Asp Leu Glu Arg Val Arg Val
 245 250 255
 Glu Met Arg
 260

<210> 8479

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 8479

Gly Ile Thr Met Lys Lys Ile Ala Ile Ala Cys Ala Leu Leu Ser Ser
 1 5 10 15
 Phe Val Ala Ser Ser Val Trp Ala Asp Ala Ala Ser Asp Leu Lys Ser

20										25										30									
Arg	Leu	Asp	Lys	Val	Ser	Ser	Phe	His	Ala	Ser	Phe	Thr	Gln	Lys	Val														
		35							40				45																
Thr	Asp	Gly	Ser	Gly	Asn	Ala	Val	Gln	Glu	Gly	Gln	Gly	Asp	Leu	Trp														
		50					55					60																	
Val	Lys	Arg	Pro	Asn	Leu	Phe	Asn	Trp	His	Met	Thr	Gln	Pro	Asp	Glu														
65					70					75					80														
Ser	Val	Leu	Val	Ser	Asp	Gly	Lys	Thr	Leu	Trp	Phe	Tyr	Asn	Pro	Phe														
				85					90					95															
Val	Glu	Gln	Ala	Thr	Ala	Thr	Trp	Leu	Lys	Asp	Ala	Thr	Ser	Asn	Thr														
				100				105					110																
Pro	Phe	Met	Leu	Ile	Ala	Arg	Asn	Gln	Ser	Ser	Asp	Trp	Gln	Gln	Tyr														
		115					120					125																	
Asn	Ile	Lys	Gln	Asn	Gly	Asp	Glu	Phe	Val	Leu	Thr	Pro	Lys	Gly	Ser														
		130				135					140																		
Asn	Gly	Asn	Leu	Lys	Gln	Phe	Thr	Ile	Asn	Val	Ser	Ser	Asn	Gly	Thr														
145					150				155					160															
Ile	Asn	Gln	Phe	Gly	Ala	Val	Glu	Gln	Asp	Gln	Arg	Ser	Ser	Tyr															
				165				170					175																
Gln	Leu	Lys	Ser	Gln	Gln	Asn	Gly	Ala	Val	Asp	Ala	Ser	Lys	Phe	Thr														
			180				185						190																
Phe	Thr	Pro	Pro	Gln	Gly	Val	Thr	Val	Asp	Asp	Gln	Arg	Asn	Lys															
		195				200						205																	

<210> 8480

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 8480

Val	Ser	Asn	Leu	Ser	Leu	Asp	Phe	Ser	Asp	Asn	Ala	Phe	Gln	Pro	Leu
1			5						10					15	
Ala	Ala	Arg	Met	Arg	Pro	Glu	Asn	Leu	Ala	Gln	Tyr	Ile	Gly	Gln	Gln
			20				25						30		
His	Leu	Leu	Ala	Ala	Gly	Lys	Pro	Leu	Pro	Arg	Ala	Ile	Glu	Ala	Gly
		35				40					45				
His	Leu	His	Ser	Met	Ile	Leu	Trp	Gly	Pro	Pro	Gly	Thr	Gly	Lys	Thr
		50			55					60					
Thr	Leu	Ala	Glu	Val	Ile	Ala	Arg	Tyr	Ala	Asn	Ala	Asp	Val	Glu	Arg
65				70					75					80	
Ile	Ser	Ala	Val	Thr	Ser	Gly	Val	Lys	Glu	Ile	Arg	Glu	Ala	Ile	Glu
				85				90					95		
Arg	Ala	Arg	Gln	Asn	Arg	Asn	Ala	Gly	Arg	Arg	Thr	Ile	Leu	Phe	Val
			100				105					110			
Asp	Glu	Val	His	Arg	Phe	Asn	Lys	Ser	Gln	Gln	Asp	Ala	Phe	Leu	Pro
		115				120					125				
His	Ile	Glu	Asp	Gly	Thr	Ile	Phe	Phe	Ile	Gly	Ala	Thr	Thr	Glu	Asn
		130			135					140					
Pro	Ser	Phe	Glu	Leu	Asn	Ser	Ala	Leu	Leu	Ser	Arg	Ala	Arg	Val	Tyr
145				150				155						160	
Leu	Leu	Lys	Ser	Leu	Thr	Thr	Glu	Asp	Ile	Glu	Lys	Val	Leu	Thr	Gln
			165				170						175		
Ala	Met	Glu	Asp	Lys	Ala	Arg	Gly	Tyr	Gly	Gly	Gln	Asp	Ile	Val	Leu
		180				185						190			
Pro	Asp	Gly	Thr	Arg	Arg	Ala	Ile	Ala	Glu	Leu	Val	Asn	Gly	Asp	Ala
		195				200						205			
Arg	Arg	Ala	Met	Asn	Thr	Leu	Glu	Met	Met	Ala	Asp	Met	Ala	Glu	Val
		210			215					220					
Asp	Asp	Ala	Gly	Lys	Arg	Val	Leu	Lys	Gln	Glu	Leu	Leu	Thr	Glu	Ile
225				230						235				240	
Ala	Gly	Glu	Arg	Ser	Ala	Arg	Phe	Asp	Asn	Lys	Gly	Asp	Arg	Phe	Tyr

245 250 255
 Asp Leu Ile Ser Ala Leu His Lys Ser Val Arg Gly Ser Ala Pro Asp
 260 265 270
 Ala Ala Leu Tyr Trp Tyr Ala Arg Ile Ile Thr Ala Gly Asp Pro
 275 280 285
 Leu Tyr Val Ala Arg Arg Cys Leu Ala Ile Ala Ser Glu Asp Val Gly
 290 295 300
 Asn Ala Asp Pro Arg Ala Met Gln Val Ala Leu Ser Ala Trp Asp Cys
 305 310 315 320
 Phe Thr Arg Val Gly Pro Ala Glu Gly Glu Arg Ala Ile Ala Gln Ala
 325 330 335
 Ile Val Tyr Leu Ala Cys Ala Pro Lys Ser Asn Ala Val Tyr Thr Ala
 340 345 350
 Phe Lys Ala Ala Met Ser Asp Ala Arg Glu Arg Pro Asp Tyr Asp Val
 355 360 365
 Pro Val His Leu Arg Asn Ala Pro Tyr Lys Ala Asp Glu Arg Asp Gly
 370 375 380
 Leu Arg Ala Gly Val Ser Leu Arg Pro
 385 390

<210> 8481

<211> 438

<212> PRT

<213> Enterobacter cloacae

<400> 8481

Phe Asp Lys His Arg Ile Ser Met Leu Asp Pro Asn Leu Leu Arg Asn
 1 5 10 15
 Glu Pro Asp Ala Val Ala Glu Lys Leu Ala Arg Arg Gly Phe Lys Leu
 20 25 30
 Asp Val Asp Lys Leu Arg Ala Leu Glu Glu Arg Arg Lys Val Leu Gln
 35 40 45
 Val Gln Thr Glu Asn Leu Gln Ala Glu Arg Asn Ser Arg Ser Lys Ser
 50 55 60
 Ile Gly Gln Ala Lys Ala Arg Gly Glu Asp Ile Glu Pro Leu Arg Leu
 65 70 75 80
 Glu Val Asn Lys Leu Gly Glu Glu Leu Asp Gln Ala Lys Ala Glu Leu
 85 90 95
 Asp Val Leu Gln Ala Glu Ile Arg Asp Ile Ala Leu Ala Ile Pro Asn
 100 105 110
 Ile Pro Asp Asp Ser Val Pro Val Gly Lys Asp Glu Asn Asp Asn Val
 115 120 125
 Glu Val Lys Arg Trp Gly Thr Pro Arg Glu Phe Asp Phe Glu Val Arg
 130 135 140
 Asp His Val Thr Leu Gly Glu Met His Ala Gly Leu Asp Phe Ala Ala
 145 150 155 160
 Ala Val Lys Leu Thr Gly Ser Arg Phe Val Val Met Lys Gly Gln Ile
 165 170 175
 Ala His Leu His Arg Ala Leu Ala Gln Phe Met Leu Asp Leu His Thr
 180 185 190
 Glu Gln His Gly Tyr Ser Glu Thr Tyr Val Pro Tyr Leu Val Asn His
 195 200 205
 Asp Thr Leu Tyr Gly Thr Gly Gln Leu Pro Lys Phe Ala Gly Asp Leu
 210 215 220
 Phe His Thr Arg Pro Leu Asp Glu Glu Ala Asp Ser Ser Asn Tyr Ala
 225 230 235 240
 Leu Ile Pro Thr Ala Glu Val Pro Leu Thr Asn Leu Val Arg Asp Glu
 245 250 255
 Ile Ile Asp Glu Asp Asp Leu Pro Ile Lys Leu Thr Ala His Ser Pro
 260 265 270
 Cys Phe Arg Ser Glu Ala Gly Ser Tyr Gly Arg Asp Thr Arg Gly Leu

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      275              280              285
Ile Arg Met His Gln Phe Asp Lys Val Glu Met Val Gln Ile Val Arg
  290              295              300
Pro Glu Glu Ser Met Asp Ala Leu Glu Glu Met Thr Gly His Ala Glu
  305              310              315              320
Lys Val Leu Glu Leu Leu Gly Leu Pro Tyr Arg Arg Met Ala Leu Cys
      325              330              335
Thr Gly Asp Met Gly Phe Gly Ala Cys Lys Thr Phe Asp Leu Glu Val
      340              345              350
Trp Val Pro Ala Gln Asn Thr Tyr Arg Glu Ile Ser Ser Cys Ser Asn
      355              360              365
Val Trp Asp Phe Gln Ala Arg Arg Met Gln Ala Arg Cys Arg Ser Lys
      370              375              380
Ser Asp Lys Lys Thr Arg Leu Val His Thr Leu Asn Gly Ser Gly Leu
      385              390              395              400
Ala Val Gly Arg Thr Leu Val Ala Val Leu Glu Asn Tyr Gln Gln Ala
      405              410              415
Asp Gly Arg Ile Glu Ile Pro Glu Val Leu Arg Pro Tyr Met Lys Gly
      420              425              430
Gln Gln Phe Ile Gly
      435

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<210> 8482

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 8482

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Leu Asn Leu Thr Pro Thr Ala Val Arg Arg Gly Thr Pro Pro Ala Thr
  1              5              10              15
Trp Gln Thr Arg Arg Arg Cys Glu Met Gly Ser Gly Trp His Glu Trp
      20              25              30
Pro Leu Met Ile Phe Thr Val Phe Gly Gln Cys Val Ala Gly Gly Phe
      35              40              45
Ile Val Leu Ala Leu Ala Leu Leu Lys Gly Asn Leu Asn Thr Glu Gln
      50              55              60
Gln Gln Arg Leu Val Leu Ser Met Phe Gly Leu Trp Val Leu Met Gly
      65              70              75              80
Ile Gly Phe Ile Ala Ser Thr Leu His Leu Gly Ser Pro Met Arg Ala
      85              90              95
Phe Asn Ser Leu Asn Arg Val Gly Ala Ser Ser Leu Ser Asn Glu Ile
      100              105              110
Ala Ser Gly Ala Ile Phe Phe Ala Val Gly Gly Leu Gly Trp Leu Leu
      115              120              125
Ala Ala Val Lys Lys Leu Pro Ser Gly Leu Arg Ala Leu Trp Leu Ile
      130              135              140
Val Thr Met Val Leu Gly Val Val Phe Val Trp Met Met Val Arg Val
      145              150              155              160
Tyr Asn Thr Ile Asp Thr Val Thr Thr Trp Tyr Ser Val Trp Thr Pro
      165              170              175
Met Ser Phe Phe Leu Thr Met Phe Ile Gly Gly Pro Leu Leu Gly Tyr
      180              185              190
Leu Leu Leu Arg Val Ala Gly Ile Asn Gly Trp Ala Met Arg Leu Leu
      195              200              205
Pro Ala Val Ser Leu Leu Ala Leu Val Ile Ser Thr Val Val Ala Leu
      210              215              220
Met Gln Gly Ala Glu Leu Ala Thr Ile His Ser Ser Ile Gln Gln Ala
      225              230              235              240
Ser Ala Leu Val Pro Asp Tyr Gly Ser Leu Met Ala Trp Arg Val Val
      245              250              255
Leu Leu Thr Ala Ala Leu Val Cys Trp Ile Ala Pro Gln Leu Lys Gly

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260 265 270
 Tyr Ser Pro Ala Leu Pro Leu Leu Ser Leu Ala Phe Val Leu Val Leu
 275 280 285
 Ala Gly Glu Leu Ile Gly Arg Gly Val Phe Tyr Gly Leu His Met Thr
 290 295 300
 Val Gly Leu Ala Ile Ala Ser
 305 310

<210> 8483

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 8483

Glu Leu Ser Phe Met Glu Ser Leu Thr Leu Gln Pro Ile Ala Arg Val
 1 5 10 15
 Asp Gly Thr Ile Asn Leu Pro Gly Ser Lys Ser Val Ser Asn Arg Ala
 20 25 30
 Leu Leu Leu Ala Ala Leu Ala Asn Gly Thr Thr Val Leu Thr Asn Leu
 35 40 45
 Leu Asp Ser Asp Asp Val Arg His Met Leu Asn Ala Leu Lys Ala Leu
 50 55 60
 Gly Val Gln Tyr Ala Leu Ser Asp Asp Arg Thr Arg Cys Glu Val Thr
 65 70 75 80
 Gly Asn Gly Gly Ala Leu His Ser Ala Glu Ala Leu Glu Leu Phe Leu
 85 90 95
 Gly Asn Ala Gly Thr Ala Met Arg Pro Leu Ala Ala Ala Leu Cys Leu
 100 105 110
 Gly Ser Asn Asp Ile Val Leu Thr Gly Glu Pro Arg Met Lys Glu Arg
 115 120 125
 Pro Ile Gly His Leu Val Asp Ala Leu Arg Gln Gly Ala Gln Ile
 130 135 140
 Asp Tyr Leu Glu Gln Glu Asn Tyr Pro Pro Leu Arg Leu Arg Gly Gly
 145 150 155 160
 Phe Thr Gly Gly Asn Val Glu Val Asp Gly Ser Val Ser Ser Gln Phe
 165 170 175
 Leu Thr Ala Leu Leu Met Thr Ala Pro Leu Ala Pro Gln Asp Thr Val
 180 185 190
 Ile Ser Ile Lys Gly Asp Leu Val Ser Lys Pro Tyr Ile Asp Ile Thr
 195 200 205
 Leu His Leu Met Asn Thr Phe Gly Val Glu Val Glu Asn Gln Ser Tyr
 210 215 220
 Gln Arg Phe Val Val Arg Gly Ala Gln Gln Tyr Gln Ser Pro Gly His
 225 230 235 240
 Tyr Leu Val Glu Gly Asp Ala Ser Ser Ala Ser Tyr Phe Leu Ala Ala
 245 250 255
 Gly Ala Ile Lys Gly Gly Thr Val Lys Val Thr Gly Ile Gly Arg Asn
 260 265 270
 Ser Val Gln Gly Asp Ile Arg Phe Ala Asp Val Leu Glu Lys Met Gly
 275 280 285
 Ala Val Val Thr Trp Gly Asp Asp Phe Ile Ser Cys Thr His Gly Glu
 290 295 300
 Leu Asn Ala Ile Asp Met Asp Met Asn His Ile Pro Asp Ala Ala Met
 305 310 315 320
 Thr Ile Ala Thr Ala Ala Leu Phe Ala Lys Gly Thr Thr Thr Leu Arg
 325 330 335
 Asn Ile Tyr Asn Trp Arg Val Lys Glu Thr Asp Arg Leu Phe Ala Met
 340 345 350
 Ala Thr Glu Leu Arg Lys Val Gly Ala Glu Val Glu Glu Gly Glu Asp
 355 360 365
 Tyr Ile Arg Val Thr Pro Pro Ala Lys Leu Gln Phe Ala Glu Ile Gly

370 375 380
 Thr Tyr Asn Asp His Arg Met Ala Met Cys Phe Ser Leu Val Ala Leu
 385 390 395 400
 Ser Asp Thr Pro Val Thr Ile Leu Asp Pro Lys Cys Thr Ala Lys Thr
 405 410 415
 Phe Pro Asp Tyr Phe Glu Gln Leu Thr Arg Ile Ser Thr Leu Ala
 420 425 430

<210> 8484

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 8484

Ser Trp Lys Gly Lys Met Ser Ala Val Lys Ser Val Pro Arg Lys Trp
 1 5 10 15
 Pro Met Arg Pro Leu Arg Trp Arg Leu Ser Pro Arg Val Arg Glu Ala
 20 25 30
 Leu Leu Arg Arg Gln Arg Gly Phe Arg Glu Ala Pro Gly Leu Ile Ala
 35 40 45
 Asp Gly Arg Asp Met Gly Thr Val Val Phe Pro Asp Ala Pro Val Lys
 50 55 60
 Ile Phe Leu Asp Ala Ser Ser Glu Glu Arg Ala His Arg Arg Met Leu
 65 70 75 80
 Gln Leu Gln Glu Lys Gly Phe Ser Val Asn Phe Asp Arg Leu Leu Ser
 85 90 95
 Glu Ile Lys Glu Arg Asp Asp Arg Asp Arg Asn Arg Ala Val Ala Pro
 100 105 110
 Leu Val Pro Ala Gln Asp Ala Leu Val Leu Asp Ser Thr Ser Leu Thr
 115 120 125
 Ile Glu Gln Val Ile Glu Lys Ala Leu Gln Tyr Ala Arg Gln Lys Leu
 130 135 140
 Ala Leu Ala
 145

<210> 8485

<211> 561

<212> PRT

<213> Enterobacter cloacae

<400> 8485

Arg Leu Asn Met Thr Glu Ser Phe Ala Gln Leu Phe Glu Glu Ser Leu
 1 5 10 15
 Lys Glu Ile Glu Thr Arg Pro Gly Ser Ile Val Arg Gly Val Val Val
 20 25 30
 Ala Ile Asp Lys Asp Val Val Leu Val Asp Ala Gly Leu Lys Ser Glu
 35 40 45
 Ser Ala Ile Pro Ala Glu Gln Phe Lys Asn Ala Gln Gly Glu Leu Glu
 50 55 60
 Ile Gln Val Gly Asp Glu Val Asp Val Ala Leu Asp Ala Val Glu Asp
 65 70 75 80
 Gly Phe Gly Glu Thr Leu Leu Ser Arg Glu Lys Ala Lys Arg His Glu
 85 90 95
 Ala Trp Ile Thr Leu Glu Lys Ala Tyr Glu Glu Ala Glu Thr Val Val
 100 105 110
 Gly Val Ile Asn Gly Lys Val Lys Gly Gly Phe Thr Val Glu Leu Asn
 115 120 125
 Gly Ile Arg Ala Phe Leu Pro Gly Ser Leu Val Asp Val Arg Pro Val
 130 135 140
 Arg Asp Thr Leu His Leu Glu Gly Lys Glu Leu Glu Phe Lys Val Ile
 145 150 155 160

Lys Leu Asp Gln Lys Arg Asn Asn Val Val Val Ser Arg Arg Ala Val
 165 170 175
 Ile Glu Ser Glu Asn Ser Ala Glu Arg Asp Gln Leu Leu Glu Asn Leu
 180 185 190
 Gln Glu Gly Met Glu Val Lys Gly Ile Val Lys Asn Leu Thr Asp Tyr
 195 200 205
 Gly Ala Phe Val Asp Leu Gly Gly Val Asp Gly Leu Leu His Ile Thr
 210 215 220
 Asp Met Ala Trp Lys Arg Val Lys His Pro Ser Glu Ile Val Asn Val
 225 230 235 240
 Gly Asp Glu Ile Thr Val Lys Val Leu Lys Phe Asp Arg Glu Arg Thr
 245 250 255
 Arg Val Ser Leu Gly Leu Lys Gln Leu Gly Glu Asp Pro Trp Val Ala
 260 265 270
 Ile Ala Lys Arg Tyr Pro Glu Gly Thr Lys Leu Thr Gly Arg Val Thr
 275 280 285
 Asn Leu Thr Asp Tyr Gly Cys Phe Val Glu Ile Glu Glu Gly Val Glu
 290 295 300
 Gly Leu Val His Val Ser Glu Met Asp Trp Thr Asn Lys Asn Ile His
 305 310 315 320
 Pro Ser Lys Val Val Asn Val Gly Asp Val Val Glu Val Met Val Leu
 325 330 335
 Asp Ile Asp Glu Glu Arg Arg Arg Ile Ser Leu Gly Leu Lys Gln Cys
 340 345 350
 Lys Asn Asn Pro Trp Gln Gln Phe Ala Glu Thr His Asn Lys Gly Asp
 355 360 365
 Arg Val Glu Gly Lys Ile Lys Ser Ile Thr Asp Phe Gly Ile Phe Ile
 370 375 380
 Gly Leu Asp Gly Gly Ile Asp Gly Leu Val His Leu Ser Asp Ile Ser
 385 390 395 400
 Trp Asn Val Ala Gly Glu Glu Ala Val Arg Glu Tyr Lys Lys Gly Asp
 405 410 415
 Glu Ile Ala Ala Val Val Leu Gln Val Asp Ala Glu Arg Glu Arg Ile
 420 425 430
 Ser Leu Gly Val Lys Gln Leu Ala Glu Asp Pro Phe Asn Asn Trp Val
 435 440 445
 Ala Leu Asn Lys Lys Gly Ala Ile Val Asn Gly Lys Val Thr Ala Val
 450 455 460
 Asp Ala Lys Gly Ala Thr Val Glu Leu Ala Asp Gly Val Glu Gly Tyr
 465 470 475 480
 Leu Arg Ala Ser Glu Ala Ser Arg Asp Arg Val Glu Asp Ala Thr Leu
 485 490 495
 Val Leu Ser Val Gly Asp Asp Val Glu Ala Lys Phe Thr Gly Val Asp
 500 505 510
 Arg Lys Asn Arg Ala Ile Ser Leu Ser Val Arg Ala Lys Asp Glu Ala
 515 520 525
 Asp Glu Lys Asp Ala Ile Ala Thr Val Asn Lys Gln Glu Asp Ala Asn
 530 535 540
 Phe Ser Asn Asn Ala Met Ala Glu Ala Phe Lys Ala Ala Lys Gly Glu
 545 550 555 560

<210> 8486

<211> 760

<212> PRT

<213> Enterobacter cloacae

<400> 8486

Asn Met Glu Val Lys Met Gly Ile His Val Ile Ser Met Cys Ala Ile
 1 5 10 15

Leu Ala Ile Ile Pro Leu Tyr Trp Leu Pro Val Leu Pro Asp Leu His
 20 25 30
 Ile Val Trp Leu Leu Ile Ala Ala Gly Ile Ala Leu Ser Val Gln Gln
 35 40 45
 Arg Lys Trp Leu Arg Phe Ser Gly Leu Ala Leu Leu Phe Met Cys Trp
 50 55 60
 Gly Ile Leu Ala Ala Gln Glu Ser Val Trp Pro Met Asn His Leu Thr
 65 70 75 80
 Lys Val Pro Gln Gln Ala Glu Val Val Ile Thr Ala Thr Asp Gly Ala
 85 90 95
 Thr Met His Gln Gly Arg Ile Val Ser Leu Asn Gly Glu Arg Val Trp
 100 105 110
 Ala Ala Met Gly Val Ala Leu Tyr Gly Asn Tyr Leu Pro Gln Asn Val
 115 120 125
 Cys Val Gly Gln Arg Trp Ala Met Thr Leu Arg Leu Arg Ala Val His
 130 135 140
 Gly Glu Leu Asn Asp Gly Gly Tyr Asp Ser Gln Lys Asn Ala Phe Val
 145 150 155 160
 Arg His Gln Thr Leu Ser Gly Arg Phe Thr His Ala Ala Leu Val Asp
 165 170 175
 Glu Gly Cys Ser Leu Arg Ala Gln Tyr Leu Thr Ser Leu Gln Ser Thr
 180 185 190
 Leu Ser Ala Tyr Gln Trp Gly Pro Val Ile Leu Gly Leu Gly Met Gly
 195 200 205
 Glu Arg Leu Ser Val Ser Arg Glu Ile Lys Asn Leu Met Arg Glu Thr
 210 215 220
 Gly Thr Met His Leu Met Ala Ile Ser Gly Leu His Ile Ala Leu Ala
 225 230 235 240
 Ala Ser Val Ile Trp Phe Leu Ala Arg Gly Ile Gln Phe Phe Leu Pro
 245 250 255
 Gly Arg Trp Ile Ile Trp Gln Ile Pro Leu Leu Ala Gly Leu Ile Phe
 260 265 270
 Ala Ala Phe Tyr Ala Trp Leu Thr Gly Leu Gln Pro Pro Ala Leu Arg
 275 280 285
 Thr Val Ile Ala Leu Val Val Leu Ala Val Leu Lys Met Ser Gly Arg
 290 295 300
 Gln Trp Ser Pro Trp Gln Val Trp Leu Thr Cys Val Ala Ala Ile Leu
 305 310 315 320
 Val Phe Asp Pro Leu Ala Val Leu Ser Gln Ser Leu Ala Leu Ser Ala
 325 330 335
 Phe Ala Val Ala Ala Leu Ile Phe Trp Tyr Gln Trp Leu Pro Leu Pro
 340 345 350
 Leu Trp Gln Arg Gly Arg Cys Leu Arg Pro Leu Val Thr Leu Leu Tyr
 355 360 365
 Leu Gln Val Gly Met Leu Leu Leu Leu Leu Pro Leu Gln Val Leu Ile
 370 375 380
 Phe His Gly Phe Ser Leu Ser Ser Leu Ala Ala Asn Leu Phe Ala Val
 385 390 395 400
 Pro Leu Val Thr Phe Ile Ser Val Pro Leu Ile Leu Leu Gly Met Phe
 405 410 415
 Leu His Leu Phe Pro Val Ala Thr Leu Glu Ser Ile Val Trp Leu Ala
 420 425 430
 Ala Asp Lys Ser Leu Ala Gly Leu Phe Trp Leu Leu Met Arg Leu Pro
 435 440 445
 Asn Gly Trp Gln Asp Val Asp Glu Arg Trp Gln Tyr Leu Thr Leu Leu
 450 455 460
 Pro Trp Leu Leu Ile Ile Gly Trp Arg Phe Arg Ala Phe Ser Ala Val
 465 470 475 480
 Pro Ala Val Cys Leu Ala Gly Ser Val Val Leu Ala Phe Pro Leu Trp
 485 490 495
 His Arg Ala Lys Thr Asp Ser Trp Ser Leu His Met Leu Asp Val Gly

500 505 510
 Gln Gly Leu Ala Met Val Ile Glu Arg His Gly Lys Ala Ile Leu Tyr
 515 520 525
 Asp Thr Gly Leu Ala Trp Pro Gly Gly Asp Ser Gly Gln Gln Leu Ile
 530 535 540
 Ile Pro Trp Leu Arg Trp His His Leu Arg Pro Glu Gly Val Ile Leu
 545 550 555 560
 Ser His Glu His Leu Asp His Ala Gly Gly Leu Ala Ser Leu Lys Ala
 565 570 575
 Ala Trp Pro Ala Met Trp Ile Arg Ser Pro Leu Ser Trp Ala Gly His
 580 585 590
 Leu Pro Cys Phe Arg Gly Glu Arg Trp Gln Trp Gln Gly Leu Thr Phe
 595 600 605
 Ser Val His Trp Pro Pro Glu Asn Thr Ser Ala Lys Gly Asn Asn Arg
 610 615 620
 Ser Cys Val Val Lys Ile Asp Asp Gly Glu Gln Ser Val Leu Leu Thr
 625 630 635 640
 Gly Asp Ile Glu Arg Gln Ala Glu Leu Ala Met Leu Ser His Arg Trp
 645 650 655
 Arg Gln Leu Ala Ser Thr Leu Ile Gln Val Pro His His Gly Ser Asn
 660 665 670
 Thr Ser Ser Thr Pro Leu Leu Gln Arg Val Glu Gly Gln Val Ser
 675 680 685
 Leu Ala Ser Met Ala Arg Tyr Asn Ala Trp Arg Phe Pro Ser Ile Lys
 690 695 700
 Val Val Arg Arg Tyr Arg Thr Glu Gly Tyr Leu Trp Leu Asp Thr Pro
 705 710 715 720
 Gln Ser Gly Gln Ile Ser Val Thr Phe Ser His Gln Ser Arg Gln Ile
 725 730 735
 Arg Arg Leu Arg Glu His Tyr Leu Pro Arg Trp Tyr His Gln Trp Phe
 740 745 750
 Gly Ala Pro Val Asp Asn Gly
 755 760

<210> 8487

<211> 583

<212> PRT

<213> Enterobacter cloacae

<400> 8487

Met His Asn Asp Lys Asp Leu Ser Thr Trp Gln Thr Phe Arg Arg Leu
 1 5 10 15
 Trp Pro Met Ile Ala Pro Phe Lys Ala Gly Leu Ile Val Ala Gly Val
 20 25 30
 Ala Leu Ile Leu Asn Ala Ala Ser Asp Thr Phe Met Leu Ser Leu Leu
 35 40 45
 Lys Pro Leu Leu Asp Asp Gly Phe Gly Lys Thr Asp Arg Ser Val Leu
 50 55 60
 Leu Trp Met Pro Leu Val Val Ile Gly Leu Met Ile Leu Arg Gly Ile
 65 70 75 80
 Ser Ser Tyr Val Ser Ser Tyr Cys Ile Ser Trp Val Ser Gly Lys Val
 85 90 95
 Val Met Thr Met Arg Arg Arg Leu Phe Ser His Met Met Gly Met Pro
 100 105 110
 Val Ser Phe Phe Asp Lys Gln Ser Thr Gly Thr Leu Leu Ser Arg Ile
 115 120 125
 Thr Tyr Asp Ser Glu Gln Val Ala Ser Ser Ser Ser Ala Leu Ile
 130 135 140
 Thr Val Val Arg Glu Gly Ala Ser Ile Ile Gly Leu Phe Ala Met Met
 145 150 155 160
 Phe Tyr Tyr Ser Trp Gln Leu Ser Leu Ile Leu Ile Val Leu Ala Pro

Ile	Val	Ser	Ile	165	Ile	Arg	Val	Val	Ser	170	Lys	Arg	Phe	Arg	175	Asn	Ile
Ser	Lys	Asn	Met	180	Gln	Asn	Thr	Met	Gly	185	Gln	Val	Thr	Thr	190	Ser	Ala
Gln	Met	Leu	Lys	195	Gly	His	Lys	Glu	Val	200	Leu	Ile	Phe	Gly	205	Gly	Gln
Val	Glu	Thr	Lys	210	Arg	Phe	Asp	Lys	Val	215	Ser	Asn	Arg	Met	220	Arg	Leu
Gly	Met	Lys	Met	225	Val	Ser	Ala	Ser	Ser	230	Ile	Ser	Asp	Pro	235	Ile	Gln
Leu	Ile	Ala	Ser	240	Leu	Ala	Leu	Ala	Phe	245	Val	Leu	Tyr	Ala	250	Ala	Ser
Pro	Ser	Val	Met	255	Glu	Thr	Leu	Thr	Ala	260	Gly	Thr	Ile	Thr	265	Val	Phe
Ser	Ser	Met	Ile	270	Ala	Leu	Met	Arg	Pro	275	Leu	Lys	Ser	Leu	280	Thr	Asn
Asn	Ala	Gln	Phe	285	Gln	Arg	Gly	Met	Ala	290	Ala	Cys	Gln	Thr	300	Leu	Phe
Ile	Leu	Asp	Ser	305	Glu	Gln	Glu	Lys	Asp	310	Glu	Gly	Thr	Arg	315	Val	Ile
Arg	Ala	Lys	Gly	320	Asp	Leu	Glu	Phe	Arg	325	Asn	Val	Thr	Phe	330	Thr	Pro
Gly	Arg	Glu	Val	335	Pro	Ala	Leu	Arg	Asp	340	Ile	Ser	Leu	Ser	345	Ile	Pro
Gly	Lys	Thr	Val	350	Ala	Leu	Val	Gly	Arg	355	Ser	Gly	Ser	Gly	360	Lys	Ser
Ile	Ala	Ser	Leu	365	Ile	Thr	Arg	Phe	Tyr	370	Asp	Ile	Asp	Gln	375	Gly	Glu
Leu	Leu	Asp	Gly	385	His	Asp	Leu	Arg	Glu	390	Tyr	Thr	Leu	Gln	395	Ser	Leu
Asn	Gln	Val	Ala	400	Leu	Val	Ser	Gln	Asn	405	Val	His	Leu	Phe	410	Asn	Asp
Val	Ala	Asn	Asn	415	Ile	Ala	Tyr	Ala	Arg	420	Thr	Glu	Glu	Tyr	425	Ser	Arg
Glu	Ile	Glu	Asn	430	Ala	Ala	Arg	Met	Ala	435	Tyr	Ala	Met	Asp	440	Phe	Ile
Lys	Met	Asp	Asn	445	Gly	Leu	Asp	Thr	Ile	450	Ile	Gly	Glu	Asn	455	Gly	Val
Leu	Ser	Gly	Gly	460	Gln	Arg	Gln	Arg	Ile	465	Ala	Ile	Ala	Arg	470	Ala	Leu
Arg	Asn	Ser	Pro	475	Ile	Leu	Ile	Leu	Asp	480	Glu	Ala	Thr	Ser	485	Ala	Leu
Thr	Glu	Ser	Glu	490	Arg	Ala	Ile	Gln	Ser	495	Ala	Leu	Asp	Glu	500	Leu	Gln
Asn	Arg	Thr	Ser	505	Leu	Val	Ile	Ala	His	510	Arg	Leu	Ser	Thr	515	Ile	Glu
Ala	Asp	Glu	Ile	520	Val	Val	Glu	Asp	Gly	525	Val	Ile	Val	Glu	530	Arg	Gly
Ser	His	Ala	Asp	535	Leu	Glu	Gln	Arg	Gly	540	Val	Tyr	Ala	Gln	545	Leu	His
Lys	Met	Gln	Phe	550	Gly	Gln				555					560		
				565						570					575		
				580													

<210> 8488

<211> 415

<212> PRT

<213> Enterobacter cloacae

<400> 8488

Leu Thr Gly Lys Arg Met Ser Leu Pro Gln Leu Ser Leu Ala Ala Ala

1 5 10 15
 Arg Asn Leu His Leu Ala Ala Gln Gly Leu Leu Lys Lys Pro Arg Arg
 20 25 30
 Arg Ala Gln Pro Ala Asp Ile Leu Ser Thr Val Gln Arg Met Ser Leu
 35 40 45
 Leu Gln Ile Asp Thr Ile Asn Ile Val Ala Arg Ser Pro Tyr Leu Val
 50 55 60
 Leu Phe Ser Arg Leu Gly Asn Tyr Pro Pro Gln Trp Leu Asp Asn Ala
 65 70 75 80
 Leu Ser Gln Gly Glu Leu Met Glu Tyr Trp Ala His Glu Ala Cys Phe
 85 90 95
 Leu Pro Arg Ser Asp Phe Ala Leu Val Arg His Arg Met Leu Ala Pro
 100 105 110
 Asp Lys Met Gly Trp Lys Tyr Arg Gln Glu Trp Met Val Glu His Ala
 115 120 125
 Asp Glu Ile Glu Gln Leu Ile Ala His Ile Gln Lys Asn Gly Pro Val
 130 135 140
 Arg Ser Ala Asp Phe Glu His Pro Arg Lys Gly Ala Ser Gly Trp Trp
 145 150 155 160
 Glu Trp Lys Pro His Lys Arg His Leu Glu Gly Leu Phe Thr Ser Gly
 165 170 175
 Lys Val Met Val Val Glu Arg Arg Asn Phe Gln Arg Val Tyr Asp Leu
 180 185 190
 Thr His Arg Val Met Pro His Trp Asp Asp Thr His Asp Leu Leu Ser
 195 200 205
 Gln Asp Val Ala Glu Ala Ile Met Leu Gly Asn Ser Ala Arg Ser Leu
 210 215 220
 Gly Ile Phe Arg Pro Gln Trp Leu Ala Asp Tyr Tyr Arg Leu Arg Gln
 225 230 235 240
 Pro Arg Leu Lys Pro Leu Leu Glu Thr Trp Gln Arg Glu Gln Arg Val
 245 250 255
 Met Pro Val Ser Val Glu Ser Leu Gly Glu Met Trp Leu His Ala Asp
 260 265 270
 Leu Phe Pro Leu Leu Ala Gln Ala Gln Glu Gly Lys Leu Gln Ala Thr
 275 280 285
 His Ser Ala Val Leu Ser Pro Phe Asp Pro Val Val Trp Asp Arg Lys
 290 295 300
 Arg Ala Glu Gln Leu Phe Asp Phe Ser Tyr Arg Leu Glu Cys Tyr Thr
 305 310 315 320
 Pro Ala Pro Arg Arg Gln Tyr Gly Tyr Phe Val Leu Pro Leu Leu His
 325 330 335
 Lys Gly Gln Leu Val Gly Arg Met Asp Ala Lys Met His Arg Lys Thr
 340 345 350
 Gly Met Leu Glu Ile Ile Ala Leu Trp Leu Glu Glu Gly Ile Lys Val
 355 360 365
 Thr Ala Gly Leu Glu Lys Gly Leu Thr Thr Ala Leu Ser Glu Phe Ala
 370 375 380
 Arg Trp Gln Gly Ala His Glu Ile Val Leu Gly Arg Val Pro Val Glu
 385 390 395 400
 Leu Phe Ala Thr Cys Arg Asp Gly Trp Glu Thr Asp Thr Pro
 405 410 415

<210> 8489

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 8489

Lys Gly Asn Val Ile Ser Phe Ser Asp Tyr Pro Tyr Gly Gly Thr Met
 1 5 10 15
 Asp His Arg Leu Leu Glu Ile Ile Ala Cys Pro Val Cys Asn Gly Lys

20					25					30					
Leu	Tyr	Tyr	Ser	Gln	Asp	Lys	Gln	Glu	Leu	Ile	Cys	Lys	Leu	Asp	Ser
35					40					45					
Leu	Ala	Phe	Pro	Leu	Arg	Asp	Gly	Ile	Pro	Val	Leu	Leu	Glu	Asn	Glu
50					55					60					
Ala	Arg	Ser	Leu	Val	Ala	Glu	Glu	Ile	Lys	Pro					
65					70					75					

<210> 8490

$\langle 211 \rangle$ 300

<212> PRT

<213> Enterobacter cloacae

<400> 8490

Ser	His	Met	Glu	Gln	Leu	Arg	Ala	Glu	Leu	Ser	His	Leu	Leu	Gly	Glu
1				5					10					15	
Lys	Leu	Ser	Arg	Val	Glu	Cys	Val	Asn	Glu	Lys	Ala	Asp	Ser	Ala	Leu
			20					25				30			
Trp	Ser	Leu	Tyr	Asp	Ser	Gln	Gly	Asn	Pro	Met	Pro	Leu	Met	Ala	Arg
		35					40					45			
Ser	Phe	Thr	Ser	Pro	Gly	Val	Ala	Arg	Gln	Leu	Ala	Trp	Lys	Met	Ser
	50					55					60				
Met	Leu	Ala	Arg	Glu	Gly	Thr	Val	Arg	Met	Pro	Thr	Val	Tyr	Gly	Val
65					70					75				80	
Met	Thr	His	Glu	Glu	His	Pro	Ala	Pro	Asp	Val	Leu	Leu	Ile	Glu	Arg
			85					90						95	
Leu	Arg	Gly	Val	Ser	Val	Glu	Ala	Pro	Thr	Arg	Thr	Pro	Glu	Arg	Trp
			100					105					110		
Glu	Gln	Leu	Lys	Asp	Gln	Ile	Val	Glu	Ala	Leu	Leu	Ala	Trp	His	Arg
		115					120					125			
Gln	Asp	Ser	Arg	Gly	Leu	Val	Gly	Ala	Val	Asp	Ser	Thr	Gln	Glu	Asn
		130				135					140				
Leu	Trp	Pro	Leu	Trp	Tyr	Arg	Gln	Arg	Val	Glu	Val	Leu	Trp	Gly	Thr
145					150					155				160	
Leu	Asn	Gln	Phe	Asn	Asn	Thr	Gly	Leu	Thr	Met	Gln	Asp	Lys	Arg	Ile
			165						170					175	
Leu	Phe	Arg	Thr	Arg	Glu	Cys	Leu	Pro	Thr	Leu	Phe	Glu	Gly	Phe	Asn
			180					185					190		
Asp	Asn	Cys	Val	Leu	Val	His	Gly	Asn	Phe	Thr	Leu	Arg	Ser	Met	Leu
		195					200					205			
Lys	Asp	Ser	Arg	Ser	Asp	Gln	Leu	Leu	Ala	Met	Val	Gly	Pro	Gly	Ile
		210				215					220				
Met	Leu	Trp	Ala	Pro	Arg	Glu	Tyr	Glu	Leu	Phe	Arg	Leu	Ser	Glu	Gly
225					230					235				240	
Gly	Ala	Ala	Glu	Asp	Leu	Leu	Trp	His	Tyr	Leu	Gln	Arg	Ala	Pro	Val
			245					250						255	
Ala	Glu	Ala	Phe	Leu	Trp	Arg	Arg	Trp	Leu	Tyr	Leu	Leu	Trp	Asp	Glu
			260					265					270		
Val	Ala	Gln	Leu	Val	Asn	Thr	Gly	Arg	Phe	Asn	Arg	Ala	Ser	Phe	Asp
		275					280					285			
Leu	Ala	Ala	Lys	Ser	Leu	Leu	Pro	Trp	Leu	Ala					
		290				295					300				

<210> 8491

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 8491

Ala Pro Gly Trp Ala Lys Phe Gly Asp Ile Thr Ala Met Ser Ile Ile
1 5 10 15

Gly Arg Ile His Ser Phe Glu Ser Cys Gly Thr Val Asp Gly Pro Gly
 20 25 30
 Ile Arg Phe Ile Thr Phe Phe Gln Gly Cys Leu Met Arg Cys Leu Tyr
 35 40 45
 Cys His Asn Arg Asp Thr Trp Asp Thr His Gly Gly Lys Glu Val Thr
 50 55 60
 Val Glu Asp Leu Met Lys Glu Val Val Thr Tyr Arg His Phe Met Asn
 65 70 75 80
 Ala Ser Gly Gly Gly Val Thr Ala Ser Gly Gly Glu Ala Ile Leu Gln
 85 90 95
 Ala Glu Phe Val Arg Asp Trp Phe Arg Ala Cys His Lys Glu Gly Ile
 100 105 110
 His Thr Cys Leu Asp Thr Asn Gly Phe Val Arg Arg Tyr Asp Pro Val
 115 120 125
 Ile Asp Glu Leu Leu Glu Val Thr Asp Leu Val Met Leu Asp Leu Lys
 130 135 140
 Gln Met Asn Asp Glu Ile His Gln Asn Leu Val Gly Val Ser Asn His
 145 150 155 160
 Arg Thr Leu Glu Phe Ala Lys Tyr Ile Ala Asn Lys Gly Val Lys Thr
 165 170 175
 Trp Ile Arg Tyr Val Val Val Pro Gly Trp Ser Asp Asp Asp Ser
 180 185 190
 Ala His Arg Leu Gly Glu Phe Thr Arg Asp Met Gly Asn Val Glu Lys
 195 200 205
 Ile Glu Leu Leu Pro Tyr His Glu Leu Gly Lys His Lys Trp Val Ala
 210 215 220
 Met Gly Glu Glu Tyr Lys Leu Asp Gly Val Lys Pro Pro Lys Lys Glu
 225 230 235 240
 Thr Met Glu Arg Val Lys Gly Ile Leu Glu Gln Tyr Gly His Lys Val
 245 250 255
 Met Tyr

<210> 8492

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 8492

Arg Gly Gly Gly Met Gly Arg Ala Thr Ser Leu Pro Asp Ala Val Cys
 1 5 10 15
 Glu Asp Asp Val Pro Phe Leu Leu Val Thr Ser Ala Ser His Leu Pro
 20 25 30
 Arg Ala Met Ile Phe Phe Glu Lys Gln Gly Leu His Pro Leu Pro Ala
 35 40 45
 Pro Ala Asn Gln Met Ala Ile Asp Ala Pro Leu Asn Pro Trp Glu Arg
 50 55 60
 Ile Ile Pro Ser Pro Val Trp Leu Met His Ser Asp Arg Val Gly Tyr
 65 70 75 80
 Glu Thr Leu Gly Arg Leu Trp Gln Trp Leu Lys Gly Ser Ser Gly Lys
 85 90 95
 Pro Gly Gln Glu
 100

<210> 8493

<211> 656

<212> PRT

<213> Enterobacter cloacae

<400> 8493

Arg Leu Arg Asn Ala Thr Ser Pro Lys Asn Ser Gly Gly Thr Leu Ser

Leu Asn Leu Ile Ala Gln Leu Asp Glu Gly His Asp Asp Phe Thr
 500 505 510
 Arg Val Arg Glu Leu Leu Gly Leu Ala Thr Gly Lys Asp Asn Gly Trp
 515 520 525
 Tyr Thr Leu Arg Ile Gly Glu Leu Lys Ala Met Leu Ala Leu Ala Gly
 530 535 540
 Gly Asp Leu Asp Gln Ala Leu Ala Trp Thr Glu Trp Thr Met Glu Phe
 545 550 555 560
 Asn Gln Ser Val Phe Ser Ala Glu Arg Thr Asn Tyr Tyr Arg Cys Leu
 565 570 575
 Gln Thr Leu Leu Leu Ser Gln Glu Asp Asp Arg Gln Pro Leu Gln
 580 585 590
 Tyr Leu Asn Ala Phe Val Arg Met Tyr Gly Ala Asp Ala Val Glu Ala
 595 600 605
 Ala Ser Ala Ala Leu Ser Gly Glu Glu Pro Phe Tyr Gly Leu Gln Ala
 610 615 620
 Val Asp Ser Asp Leu Gln Ala Phe Pro Ala His Gln Ser Leu Leu Asn
 625 630 635 640
 Ala Tyr Glu Lys Leu Gln Lys Ala Lys Ala Ala Tyr Trp Ser Lys
 645 650 655

<210> 8494

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 8494

Asn His Thr His Cys Gly Pro Ile Ser Gln Ala Arg Tyr Asp Leu Tyr
 1 5 10 15
 Gln Phe Leu Phe Tyr Asn Ala Leu Leu Val Ser Arg Arg Arg Leu Asn
 20 25 30
 Lys Glu Arg Val Ser Val Lys Ala Asp Asn Pro Phe Asp Leu Leu
 35 40 45
 Pro Ala Ala Met Ala Lys Val Ala Glu Glu Ala Gly Val Tyr Lys Ala
 50 55 60
 Thr Lys His Pro Met Thr Thr Phe Phe Leu Ala Ile Thr Ala Gly Val
 65 70 75 80
 Phe Ile Ser Ile Ala Phe Val Phe Tyr Ile Thr Ala Thr Thr Gly Thr
 85 90 95
 Ala Gly Met Pro Phe Gly Ile Ala Lys Leu Ile Gly Gly Ile Cys Phe
 100 105 110
 Ser Leu Gly Leu Ile Leu Cys Val Ile Cys Gly Ala Asp Leu Phe Thr
 115 120 125
 Ser Thr Val Leu Ile Val Val Ala Lys Ala Ser Gly Arg Ile Thr Trp
 130 135 140
 Gly Gln Leu Gly Arg Asn Trp Leu Asn Val Tyr Val Gly Asn Leu Ile
 145 150 155 160
 Gly Cys Leu Leu Phe Val Leu Leu Met Trp Leu Ser Gly Glu Tyr Met
 165 170 175
 Thr Ala Asn Gly Gly Trp Gly Leu Asn Val Leu Gln Thr Ala Asp His
 180 185 190
 Lys Met His His Thr Phe Ile Glu Ala Val Ala Leu Gly Ile Leu Ala
 195 200 205
 Asn Leu Met Val Cys Leu Ala Val Trp Met Ser Tyr Ser Gly Arg Ser
 210 215 220
 Leu Met Asp Lys Ala Met Ile Met Val Leu Pro Val Ala Met Phe Val
 225 230 235 240
 Ala Ser Gly Phe Glu His Ser Ile Ala Asn Met Phe Met Ile Pro Met
 245 250 255
 Gly Ile Val Ile Arg Asn Phe Ala Ser Pro Glu Phe Trp Thr Ala Val
 260 265 270

Gly Ser Thr Pro Glu Ser Phe Ser His Leu Thr Ile Met Asn Phe Ile
 275 280 285
 Thr Asp Asn Leu Ile Pro Val Thr Ile Gly Asn Ile Ile Gly Gly Gly
 290 295 300
 Leu Leu Val Gly Leu Thr Tyr Trp Val Ile Tyr Leu Arg Gly Gly Asp
 305 310 315 320
 His His

<210> 8495

<211> 766

<212> PRT

<213> Enterobacter cloacae

<400> 8495

Glu Gly Arg Cys Tyr Met Ser Glu Leu Asn Glu Lys Leu Ala Thr Ala
 1 5 10 15
 Trp Glu Gly Phe Thr Lys Gly Asp Trp Gln Asn Glu Val Asn Val Arg
 20 25 30
 Asp Phe Ile Gln Lys Asn Tyr Thr Pro Tyr Glu Gly Asp Glu Ser Phe
 35 40 45
 Leu Ala Gly Ala Thr Asp Ala Thr Thr Lys Leu Trp Asp Ser Val Met
 50 55 60
 Glu Gly Val Lys Leu Glu Asn Arg Thr His Ala Pro Val Asp Phe Asp
 65 70 75 80
 Thr Ser Val Ala Ser Thr Ile Thr Ser His Asp Ala Gly Tyr Ile Asn
 85 90 95
 Lys Ala Leu Glu Lys Ile Val Gly Leu Gln Thr Glu Ala Pro Leu Lys
 100 105 110
 Arg Ala Ile Ile Pro Phe Gly Gly Ile Lys Met Val Glu Gly Ser Cys
 115 120 125
 Lys Ala Tyr Asn Arg Glu Leu Asp Pro Met Leu Lys Lys Ile Phe Thr
 130 135 140
 Glu Tyr Arg Lys Thr His Asn Gln Gly Val Phe Asp Val Tyr Thr Lys
 145 150 155 160
 Asp Ile Leu Asn Cys Arg Lys Ser Gly Val Leu Thr Gly Leu Pro Asp
 165 170 175
 Ala Tyr Gly Arg Gly Arg Ile Ile Gly Asp Tyr Arg Arg Val Ala Leu
 180 185 190
 Tyr Gly Ile Asp Phe Leu Met Lys Asp Lys Tyr Ala Gln Phe Val Ser
 195 200 205
 Leu Gln Ser Asp Leu Glu Asn Gly Val Asn Leu Glu Ala Thr Ile Arg
 210 215 220
 Leu Arg Glu Glu Ile Ala Glu Gln His Arg Ala Leu Gly Gln Ile Lys
 225 230 235 240
 Glu Met Ala Ala Lys Tyr Gly Cys Asp Ile Ser Gly Pro Ala Thr Asn
 245 250 255
 Ala Gln Glu Ala Ile Gln Trp Thr Tyr Phe Gly Tyr Leu Ala Ala Val
 260 265 270
 Lys Ser Gln Asn Gly Ala Ala Met Ser Phe Gly Arg Val Ser Thr Phe
 275 280 285
 Leu Asp Ala Tyr Ile Glu Arg Asp Leu Lys Ala Gly Lys Ile Thr Glu
 290 295 300
 Gln Asp Ala Gln Glu Met Ile Asp His Leu Val Met Lys Leu Arg Met
 305 310 315 320
 Val Arg Phe Leu Arg Thr Pro Glu Tyr Asp Glu Leu Phe Ser Gly Asp
 325 330 335
 Pro Ile Trp Ala Thr Glu Ser Ile Gly Gly Met Gly Val Asp Gly Arg
 340 345 350
 Thr Leu Val Thr Lys Asn Ser Phe Arg Phe Leu Asn Thr Leu Tyr Thr
 355 360 365

Met Gly Pro Ser Pro Glu Pro Asn Ile Thr Val Leu Trp Ser Glu Lys
 370 375 380
 Leu Pro Leu Asn Phe Lys Lys Phe Ala Ala Lys Val Ser Ile Asp Thr
 385 390 395 400
 Ser Ser Leu Gln Tyr Glu Asn Asp Asp Leu Met Arg Pro Asp Phe Asn
 405 410 415
 Asn Asp Asp Tyr Ala Ile Ala Cys Cys Val Ser Pro Met Val Val Gly
 420 425 430
 Lys Gln Met Gln Phe Phe Gly Ala Arg Ala Asn Leu Ala Lys Thr Met
 435 440 445
 Leu Tyr Ala Ile Asn Gly Gly Val Asp Glu Lys Leu Lys Met Gln Val
 450 455 460
 Gly Pro Lys Ser Glu Pro Ile Lys Gly Asp Val Leu Asn Tyr Asp Glu
 465 470 475 480
 Val Met Asp Arg Met Asp His Phe Met Asp Trp Leu Ala Lys Gln Tyr
 485 490 495
 Val Thr Ala Leu Asn Val Ile His Tyr Met His Asp Lys Tyr Ser Tyr
 500 505 510
 Glu Ala Ser Leu Met Ala Leu His Asp Arg Asp Val Val Arg Thr Met
 515 520 525
 Ala Cys Gly Ile Ala Gly Leu Ser Val Ala Ala Asp Ser Leu Ser Ala
 530 535 540
 Ile Lys Tyr Ala Lys Val Lys Pro Ile Arg Asp Glu Asp Gly Leu Ala
 545 550 555 560
 Ile Asp Phe Glu Ile Glu Gly Glu Tyr Pro Gln Phe Gly Asn Asn Asp
 565 570 575
 Ala Arg Val Asp Asp Met Ala Val Asp Leu Val Glu Arg Phe Met Lys
 580 585 590
 Lys Ile Gln Lys Leu Thr Thr Tyr Arg Asn Ala Ile Pro Thr Gln Ser
 595 600 605
 Val Leu Thr Ile Thr Ser Asn Val Val Tyr Gly Lys Lys Thr Gly Asn
 610 615 620
 Thr Pro Asp Gly Arg Arg Ala Gly Ala Pro Phe Gly Pro Gly Ala Asn
 625 630 635 640
 Pro Met His Gly Arg Asp Gln Lys Gly Ala Val Ala Ser Leu Thr Ser
 645 650 655
 Val Ala Lys Leu Pro Phe Ala Tyr Ala Lys Asp Gly Ile Ser Tyr Thr
 660 665 670
 Phe Ser Ile Val Pro Asn Ala Leu Gly Lys Asp Asp Glu Val Arg Lys
 675 680 685
 Thr Asn Leu Ala Gly Leu Met Asp Gly Tyr Phe His His Glu Ala Ser
 690 695 700
 Ile Glu Gly Gly Gln His Leu Asn Val Asn Val Met Asn Arg Glu Met
 705 710 715 720
 Leu Leu Asp Ala Met Glu His Pro Glu Lys Tyr Pro Gln Leu Thr Ile
 725 730 735
 Arg Val Ser Gly Tyr Ala Val Arg Phe Asn Ser Leu Thr Lys Glu Gln
 740 745 750
 Gln Gln Asp Val Ile Thr Arg Thr Phe Trp Gln Ser Met
 755 760 765

<210> 8496

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 8496

Arg Leu Arg Thr Asp Ala Ala Leu Pro Val Pro Gly Gly Cys Pro Pro
 1 5 10 15
 His Ala Leu Ser Val Pro Asp Ala Gln Ser Ala Leu Pro Leu Ser Tyr
 20 25 30

Gln Arg Ser Ser Ser Gly Arg Gln Ile His Pro Pro Ala Pro Arg Cys
 35 40 45
 Lys Ala Val Phe Pro Ala Pro Asp Ala Gly His Pro Cys Cys His Pro
 50 55 60
 Ala Ser Ser Met Gly Pro Glu Ser Asp Gly Pro Tyr Ala Pro Pro Arg
 65 70 75 80
 Arg Phe Ser Arg Tyr Asn Arg Pro Gly Tyr Ala Arg Pro Ala Pro Thr
 85 90 95
 Ser Ala Cys Ser Asp Ala Pro Phe His
 100 105

<210> 8497

<211> 563

<212> PRT

<213> Enterobacter cloacae

<400> 8497

His Lys Ile Leu Phe Leu Gln Ile Tyr Asp Gly Glu Leu Thr Met Asn
 1 5 10 15
 Gly Ala Gln Trp Val Val His Ala Leu Arg Ala Gln Gly Val Glu Thr
 20 25 30
 Val Phe Gly Tyr Pro Gly Gly Ala Ile Met Pro Ile Tyr Asp Ala Leu
 35 40 45
 Tyr Asp Gly Gly Val Glu His Leu Leu Cys Arg His Glu Gln Gly Ala
 50 55 60
 Ala Met Ala Ala Ile Gly Tyr Ala Arg Ala Thr Gly Lys Thr Gly Val
 65 70 75 80
 Cys Met Ala Thr Ser Gly Pro Gly Ala Thr Asn Leu Ile Thr Gly Leu
 85 90 95
 Ala Asp Ala Leu Leu Asp Ser Val Pro Val Val Ala Ile Thr Gly Gln
 100 105 110
 Val Ala Ser Pro Phe Ile Gly Thr Asp Ala Phe Gln Glu Val Asp Val
 115 120 125
 Leu Gly Leu Ser Leu Ala Cys Thr Lys His Ser Phe Leu Val Gln Ser
 130 135 140
 Leu Glu Glu Leu Pro Arg Val Met Ala Glu Ala Phe Glu Val Ala Ser
 145 150 155 160
 Ser Gly Arg Pro Gly Pro Val Leu Val Asp Ile Pro Lys Asp Ile Gln
 165 170 175
 Val Ala Leu Gly Glu Leu Glu Pro His Phe Ser Thr Val Glu Ser Asp
 180 185 190
 Asn Ala Phe Pro His Ala Glu Val Glu Glu Ala Arg Gln Met Ile Ala
 195 200 205
 Gln Ala Lys Gln Pro Met Leu Tyr Val Gly Gly Gly Val Gly Met Ala
 210 215 220
 Gln Ala Val Pro Ala Leu Arg Glu Phe Ile Ala Ala Thr Gln Met Pro
 225 230 235 240
 Ala Thr Cys Thr Leu Lys Gly Leu Gly Ala Val Asp Ala Asp Tyr Pro
 245 250 255
 Tyr Tyr Leu Gly Met Leu Gly Met His Gly Thr Lys Ala Ala Asn Leu
 260 265 270
 Ala Val Gln Glu Cys Asp Leu Leu Ile Ala Val Gly Ala Arg Phe Asp
 275 280 285
 Asp Arg Val Thr Gly Lys Leu Asn Thr Phe Ala Pro Asn Ala Lys Val
 290 295 300
 Ile His Met Asp Ile Asp Pro Ala Glu Met Asn Lys Leu Arg Gln Ala
 305 310 315 320
 His Val Ala Leu Gln Gly Asp Leu Asn Ala Leu Leu Pro Ala Leu Glu
 325 330 335
 Gln Pro Leu Asp Ile Asn Pro Trp Arg Gln His Thr Ala Asp Met Arg
 340 345 350

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Ala Glu His Ala Trp Arg Tyr Asp His Pro Gly Glu Ala Ile Tyr Ala
    355          360          365
Pro Leu Leu Leu Lys Gln Leu Ser Asp Arg Lys Pro Ala Asp Ser Val
    370          375          380
Val Thr Thr Asp Val Gly Gln His Gln Met Trp Ser Ala Gln His Met
    385          390          395          400
Thr Tyr Thr Arg Pro Glu Asn Phe Ile Thr Ser Ser Gly Leu Gly Thr
    405          410          415
Met Gly Phe Gly Leu Pro Ala Ala Val Gly Ala Gln Val Ala Arg Pro
    420          425          430
Asn Asp Thr Val Ile Cys Ile Ser Gly Asp Gly Ser Phe Met Met Asn
    435          440          445
Val Gln Glu Leu Gly Thr Val Lys Arg Lys Gln Leu Pro Leu Lys Ile
    450          455          460
Val Leu Leu Asp Asn Gln Arg Leu Gly Met Val Arg Gln Trp Gln Gln
    465          470          475          480
Leu Phe Phe Gln Glu Arg Tyr Ser Glu Thr Thr Leu Thr Asp Asn Pro
    485          490          495
Asp Phe Leu Thr Leu Ala Ser Ala Phe Gly Ile Pro Gly Gln His Ile
    500          505          510
Thr Arg Lys Asp Gln Val Glu Ala Ala Leu Asp Thr Met Leu Ser Ser
    515          520          525
Glu Gly Pro Tyr Leu Leu His Val Ser Ile Asp Glu Leu Glu Asn Val
    530          535          540
Trp Pro Leu Val Pro Pro Gly Ala Ser Asn Ser Gln Met Leu Glu Lys
    545          550          555          560
Leu Ser

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<210> 8498

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 8498

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Lys Thr Cys Ile Ala Pro Val Arg Arg Ala Ser Val Pro Pro Arg Arg
1          5          10          15
Ser Arg Arg Ile Ala Val Gly Thr Arg Leu Met Thr Ile Ala Pro Lys
20          25          30
Ala Ala Phe Ala Arg Trp Asn Met Pro Ile Ala Lys Thr Ala Ala Trp
35          40          45
Pro Cys Cys Thr Val Thr Leu Arg Lys Met Ala Val Ser
50          55          60

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<210> 8499

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 8499

```

Gly Tyr Thr Arg Ala Thr Met Ala His Thr Lys Arg Ser Asp Leu Ala
1          5          10          15
Arg Ala Ser Gly Pro His Lys Val Arg Arg Ser Pro Asp Trp Ser Leu
20          25          30
Gln Leu Asp Ser Met Lys Ser Glu Ser Leu Val Ile Val Asp Gln Asn
35          40          45
Ala Thr Val Asn Thr Phe Pro Gly Leu Val His Thr Ala Arg His Thr
50          55          60
Met Gly Val Gly Cys Lys Arg Ser Arg
65          70

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<210> 8500

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 8500

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Leu Ile Leu Arg Ala Ile Asn Ser Ser Ala Lys Glu Leu Gly Ala Cys
1      5      10      15
Arg Met Ala Glu Ser Phe Thr Thr Thr Asn Arg Phe Phe Asp Asn Lys
      20      25      30
His Tyr Pro Arg Gly Phe Ser Arg His Gly Asp Phe Thr Ile Lys Glu
      35      40      45
Ala Gln Leu Leu Glu Arg His Gly Tyr Ala Phe Asn Glu Leu Asp Leu
      50      55      60
Gly Lys Arg Glu Pro Ala Thr Glu Asp Glu Lys Gln Phe Val Ser Val
      65      70      75      80
Cys Arg Gly Glu Arg Glu Pro Gln Ser Asp Ala Glu Arg Val Trp Ile
      85      90      95
Lys Tyr Met Ala Arg Ile Lys Arg Pro Lys Arg Phe His Thr Leu Ser
      100      105      110
Gly Gly Lys Pro Gln Met Glu Gly Ala Glu Asp Tyr Thr Glu Ser Asp
      115      120      125
Asp
130

```

<210> 8501

<211> 520

<212> PRT

<213> Enterobacter cloacae

<400> 8501

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Thr Gly Gly Leu Thr Met Ala Glu Ser Gln Pro Leu Ser Ala Ala Pro
1      5      10      15
Glu Gly Ala Glu Tyr Leu Arg Ala Val Leu Arg Ala Pro Val Tyr Glu
      20      25      30
Ala Val Gln Val Thr Pro Leu Gln Lys Met Glu Lys Leu Ser Ser Arg
      35      40      45
Leu Asp Asn Val Ile Leu Val Lys Arg Glu Asp Arg Gln Pro Val His
      50      55      60
Ser Phe Lys Leu Arg Gly Ala Tyr Ala Met Met Ala Gly Leu Thr Asp
      65      70      75      80
Glu Gln Lys Ala Arg Gly Val Ile Thr Ala Ser Ala Gly Asn His Ala
      85      90      95
Gln Gly Val Ala Phe Ser Ser Ala Arg Leu Gly Leu Lys Ala Leu Ile
      100      105      110
Val Met Pro Val Ala Thr Ala Asp Ile Lys Val Asp Ala Val Arg Gly
      115      120      125
Phe Gly Gly Glu Val Leu Leu His Gly Ala Asn Phe Asp Glu Ala Lys
      130      135      140
Ala Lys Ala Ile Glu Leu Ala Gln Gln Gln Gly Phe Thr Trp Val Pro
      145      150      155      160
Pro Phe Asp His Pro Met Val Ile Ala Gly Gln Gly Thr Leu Ala Leu
      165      170      175
Glu Leu Leu Gln Gln Asp Ala His Leu Asp Arg Val Phe Val Pro Val
      180      185      190
Gly Gly Gly Gly Leu Ala Ala Gly Val Ala Val Leu Ile Lys Gln Leu
      195      200      205
Met Pro Gln Ile Lys Val Ile Ala Val Glu Ala Glu Asp Ser Ala Cys
      210      215      220
Leu Lys Ala Ala Leu Asp Ala Gly His Pro Val Asp Leu Pro Arg Val
      225      230      235      240

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Gly Leu Phe Ala Glu Gly Val Ala Val Lys Arg Ile Gly Asp Glu Thr
 245 250 255
 Phe Arg Leu Cys Gln Glu Tyr Leu Asp Asp Ile Val Thr Val Asp Ser
 260 265 270
 Asp Ala Ile Cys Ala Ala Met Lys Asp Leu Phe Glu Asp Val Arg Ala
 275 280 285
 Val Ala Glu Pro Ser Gly Ala Leu Ala Leu Gly Met Lys Lys Tyr
 290 295 300
 Ile Ala Gln His Asn Ile Arg Gly Glu Arg Leu Ala His Val Leu Ser
 305 310 315 320
 Gly Ala Asn Val Asn Phe His Gly Leu Arg Tyr Val Ser Glu Arg Cys
 325 330 335
 Glu Leu Gly Glu Gln Arg Glu Ala Leu Leu Ala Val Thr Ile Pro Glu
 340 345 350
 Glu Lys Gly Ser Phe Leu Lys Phe Cys Gln Leu Leu Gly Gly Arg Ser
 355 360 365
 Val Thr Glu Phe Asn Tyr Arg Phe Ala Asp Ala Lys Asp Ala Cys Ile
 370 375 380
 Phe Val Gly Val Arg Leu Ser Arg Gly Val Glu Glu Arg Lys Glu Ile
 385 390 395 400
 Leu Ser Leu Leu His Asp Gly Gly Tyr Ser Val Val Asp Leu Ser Asp
 405 410 415
 Asp Glu Met Ala Lys Leu His Val Arg Tyr Met Val Gly Gly Arg Pro
 420 425 430
 Ser Lys Pro Leu Lys Glu Arg Leu Phe Ser Phe Glu Phe Pro Glu Ser
 435 440 445
 Pro Gly Ala Leu Leu Lys Phe Leu His Thr Leu Gly Thr His Trp Asn
 450 455 460
 Ile Ser Leu Phe His Tyr Arg Ser His Gly Thr Asp Tyr Gly Arg Val
 465 470 475 480
 Leu Ala Ala Phe Glu Leu Gly Glu His Glu Pro Asp Phe Glu Thr Arg
 485 490 495
 Leu Asn Glu Leu Gly Tyr Glu Cys His Asp Glu Thr His Asn Pro Ala
 500 505 510
 Phe Arg Phe Phe Leu Ala Gly
 515 520

<210> 8502

<211> 501

<212> PRT

<213> Enterobacter cloacae

<400> 8502

Thr Thr Gln His His Glu Val Ser Pro Met Ala Asn Tyr Phe Asn Thr
 1 5 10 15
 Leu Asn Leu Arg Gln Gln Leu Ala Gln Leu Gly Lys Cys Arg Phe Met
 20 25 30
 Ala Arg Asp Glu Phe Ala Asp Gly Ala Ser Tyr Leu Gln Gly Lys Lys
 35 40 45
 Val Val Ile Val Gly Cys Gly Ala Gln Gly Leu Asn Gln Gly Leu Asn
 50 55 60
 Met Arg Asp Ser Gly Leu Asp Ile Ser Tyr Ala Leu Arg Lys Glu Ala
 65 70 75 80
 Ile Ala Glu Lys Arg Ala Ser Trp Arg Lys Ala Thr Glu Asn Gly Phe
 85 90 95
 Lys Val Gly Thr Tyr Glu Glu Leu Ile Pro Gln Ala Asp Leu Val Val
 100 105 110
 Asn Leu Thr Pro Asp Lys Gln His Ser Asp Val Val Arg Ser Val Gln
 115 120 125
 Pro Leu Met Lys Asp Gly Ala Ala Leu Gly Tyr Ser His Gly Phe Asn
 130 135 140

Ile Val Glu Val Gly Glu Gln Ile Arg Lys Asp Ile Thr Val Val Met
 145 150 155 160
 Val Ala Pro Lys Cys Pro Gly Thr Glu Val Arg Glu Glu Tyr Lys Arg
 165 170 175
 Gly Phe Gly Val Pro Thr Leu Ile Ala Val His Pro Glu Asn Asp Pro
 180 185 190
 Lys Gly Glu Gly Met Ala Ile Ala Lys Ala Trp Ala Ala Ala Thr Gly
 195 200 205
 Gly His Arg Ala Gly Val Leu Glu Ser Ser Phe Val Ala Glu Val Lys
 210 215 220
 Ser Asp Leu Met Gly Glu Gln Thr Ile Leu Cys Gly Met Leu Gln Ala
 225 230 235 240
 Gly Ser Leu Leu Cys Phe Asp Lys Leu Val Glu Glu Gly Thr Asp Pro
 245 250 255
 Ala Tyr Ala Glu Lys Leu Ile Gln Phe Gly Trp Glu Thr Ile Thr Glu
 260 265 270
 Ala Leu Lys Gln Gly Gly Ile Thr Leu Met Met Asp Arg Leu Ser Asn
 275 280 285
 Pro Ala Lys Leu Arg Ala Phe Ala Leu Ser Glu Gln Leu Lys Thr Ile
 290 295 300
 Met Ala Pro Leu Phe Gln Lys His Met Asp Asp Ile Ile Ser Gly Glu
 305 310 315 320
 Phe Ser Ser Gly Met Met Ala Asp Trp Ala Asn Asp Asp Lys Lys Leu
 325 330 335
 Leu Thr Trp Arg Glu Glu Thr Gly Lys Thr Ala Phe Glu Thr Ala Pro
 340 345 350
 Gln Tyr Asp Gly Lys Ile Thr Glu Gln Glu Tyr Phe Asp Lys Gly Val
 355 360 365
 Leu Met Ile Ala Met Val Lys Ala Gly Val Glu Leu Ala Phe Glu Thr
 370 375 380
 Met Val Asp Ser Gly Ile Ile Glu Glu Ser Ala Tyr Tyr Glu Ser Leu
 385 390 395 400
 His Glu Leu Pro Leu Ile Ala Asn Thr Ile Ala Arg Lys Arg Leu Tyr
 405 410 415
 Glu Met Asn Val Val Ile Ser Asp Thr Ala Glu Tyr Gly Asn Tyr Leu
 420 425 430
 Phe Ser Tyr Ala Cys Val Pro Leu Leu Lys Glu Phe Met Thr Thr Leu
 435 440 445
 Gln Ala Gly Asp Leu Gly Gln Ala Ile Ala Glu Gly Ala Val Asp Asn
 450 455 460
 Ala Gln Leu Arg Asp Val Asn Glu Ala Ile Arg Ser His Glu Ile Glu
 465 470 475 480
 Lys Val Gly Gln Lys Leu Arg Gly Tyr Met Thr Asp Met Lys Arg Ile
 485 490 495
 Ala Val Ala Gly
 500

<210> 8503

<211> 144

<212> PRT

<213> *Enterobacter cloacae*

<400> 8503

Glu Arg Val Gly Trp Arg Lys Ala Leu Arg Arg Leu Ile Val Phe Ser
 1 5 10 15
 Thr Ile Asn Ile Ile Arg Ala Gly Ser Leu Val Thr Ala Ile Ser Leu
 20 25 30
 Ser Lys Lys Leu Asn Phe Leu Ser Ala Met Val Met Pro Leu Thr Ser
 35 40 45
 Trp Ile Trp Val Asn Val Asn Arg Gln Pro Lys Met Lys Asn Ser Leu
 50 55 60

Ser Leu Phe Ala Val Val Ser Val Ser Arg Asn Leu Met Gln Asn Val
 65 70 75 80
 Tyr Gly Leu Ser Ile Trp Leu Ala Leu Ser Val Leu Ser Val Ser Ile
 85 90 95
 Arg Cys Leu Ala Ala Ser Arg Arg Trp Lys Val Gln Lys Thr Thr Pro
 100 105 110
 Ser Leu Thr Ile Lys Lys Arg Arg Gly Tyr Gly Pro Phe Phe Phe Tyr
 115 120 125
 Ala Ser Ile Phe Cys Arg Cys Asn Ser Ser Arg Ser Ile Ala Arg
 130 135 140

<210> 8504

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 8504

Leu Thr Asn Ala Gly Glu Ile Ile Met Met Gln His Gln Val Ala Val
 1 5 10 15
 Gln Ala Arg Phe Asn Pro Glu Thr Leu Glu Arg Val Leu Arg Val Val
 20 25 30
 Arg His Arg Gly Phe Gln Ile Cys Ser Val Asn Met Glu Thr Ala Thr
 35 40 45
 Asp Ala Gln Asn Ile Ser Ile Glu Leu Thr Val Ala Ser Pro Arg Pro
 50 55 60
 Val Asp Leu Leu Phe Ser Gln Leu Ser Lys Leu Val Asp Val Ala His
 65 70 75 80
 Val Ala Ile Cys Gln Ser Thr Thr Thr Ser Gln Gln Ile Arg Ala
 85 90 95

<210> 8505

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 8505

Gln Asp Glu Lys Met Thr Thr Lys Lys Ala Asp Tyr Ile Trp Phe Asn
 1 5 10 15
 Gly Glu Met Val Arg Trp Glu Asp Ala Lys Val His Val Met Ser His
 20 25 30
 Ala Leu His Tyr Gly Thr Ser Val Phe Glu Gly Ile Arg Cys Tyr Asp
 35 40 45
 Ser His Lys Gly Pro Val Val Phe Arg His Arg Glu His Met Gln Arg
 50 55 60
 Leu His Asp Ser Ala Lys Ile Tyr Arg Phe Pro Val Ser Gln Ser Val
 65 70 75 80
 Asp Glu Leu Met Glu Ala Cys Arg Glu Val Ile Arg Gln Asn Lys Leu
 85 90 95
 Thr Ser Ala Tyr Ile Arg Pro Leu Val Phe Val Gly Asp Val Gly Met
 100 105 110
 Gly Val Asn Pro Pro Ala Gly Tyr Asn Thr Asp Val Ile Ala Ala
 115 120 125
 Phe Pro Trp Gly Ala Tyr Leu Gly Ala Glu Ala Leu Asp Gln Gly Ile
 130 135 140
 Asp Ala Met Val Ser Ser Trp Asn Arg Val Ala Pro Asn Thr Ile Pro
 145 150 155 160
 Thr Ala Ala Lys Ala Gly Gly Asn Tyr Leu Ser Ser Leu Leu Val Gly
 165 170 175
 Ser Glu Ala Arg Arg His Gly Tyr Gln Glu Gly Ile Ala Leu Asp Val
 180 185 190
 Asn Gly Tyr Ile Ser Glu Gly Ala Gly Glu Asn Leu Phe Glu Val Lys

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<210> 8506
<211> 618
<212> PRT
<213> Enterobacter cloacae
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1	Ser	Met	Pro	Lys	5	Tyr	Arg	Ser	Ala	Thr	Thr	His	Gly	Arg	Asn	Met
1	Ala	Gly	Ala	Arg	20	Ala	Leu	Trp	Arg	Ala	Thr	Gly	Met	Thr	Asp	Ala
										25				30		
	Phe	Gly	Lys	Pro	10	Ile	Ile	Ala	Val	Val	Asn	Ser	Phe	Thr	Gln	Phe
			35					40					45			
	Pro	Gly	His	Val	His	Leu	Arg	Asp	Leu	Gly	Lys	Leu	Val	Ala	Glu	Gln
		50					55					60				
	Ile	Glu	Ala	Ser	Gly	Gly	Val	Ala	Lys	Glu	Phe	Asn	Thr	Ile	Ala	Val
		65				70					75				80	
	Asp	Asp	Gly	Ile	Ala	Met	Gly	His	Gly	Gly	Met	Leu	Tyr	Ser	Leu	Pro
					85					90				95		
	Ser	Arg	Glu	Leu	Ile	Ala	Asp	Ser	Val	Glu	Tyr	Met	Val	Asn	Ala	His
				100					105					110		
	Cys	Ala	Asp	Ala	Met	Val	Cys	Ile	Ser	Asn	Cys	Asp	Lys	Ile	Thr	Pro
		115						120					125			
	Gly	Met	Leu	Met	Ala	Ser	Leu	Arg	Leu	Asn	Ile	Pro	Val	Ile	Phe	Val
		130					135					140				
	Ser	Gly	Gly	Pro	Met	Glu	Ala	Gly	Lys	Thr	Lys	Leu	Ser	Asp	Lys	Ile
		145				150					155				160	
	Ile	Lys	Leu	Asp	Leu	Val	Asp	Ala	Met	Ile	Gln	Gly	Ala	Asp	Pro	Lys
				165						170					175	
	Val	Ser	Asp	Glu	Gln	Ser	Asp	Gln	Val	Glu	Arg	Ser	Ala	Cys	Pro	Thr
			180						185					190		
	Cys	Gly	Ser	Cys	Ser	Gly	Met	Phe	Thr	Ala	Asn	Ser	Met	Asn	Cys	Leu
		195					200						205			
	Thr	Glu	Ala	Leu	Gly	Leu	Ser	Gln	Pro	Gly	Asn	Gly	Ser	Leu	Leu	Ala
		210				215						220				
	Thr	His	Ala	Asp	Arg	Lys	Gln	Leu	Phe	Leu	Asn	Ala	Gly	Lys	Arg	Ile
	225					230					235				240	
	Val	Glu	Leu	Thr	Lys	Arg	Tyr	Tyr	Glu	Gln	Asp	Asp	Ala	Ser	Ala	Leu
				245						250				255		
	Pro	Arg	Asn	Ile	Ala	Ser	Lys	Ala	Ala	Phe	Glu	Asn	Ala	Met	Thr	Leu
			260						265					270		
	Asp	Ile	Ala	Met	Gly	Gly	Ser	Thr	Asn	Thr	Val	Leu	His	Leu	Leu	Ala
			275					280					285			
	Ala	Ala	Gln	Glu	Ala	Glu	Ile	Asp	Phe	Thr	Met	Ser	Asp	Asp	Lys	
		290				295						300				
	Leu	Ser	Arg	Lys	Val	Pro	Gln	Leu	Cys	Lys	Val	Ala	Pro	Ser	Thr	Gln

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305          310          315          320
Lys Tyr His Met Glu Asp Val His Arg Ala Gly Gly Val Ile Gly Ile
          325          330          335
Leu Gly Glu Leu Asp Arg Ala Gly Leu Leu Asn Arg Asp Val Lys Asn
          340          345          350
Val Leu Gly Leu Thr Leu Pro Glu Ser Leu Glu Gln Tyr Asp Val Met
          355          360          365
Leu Thr Lys Asp Asp Ala Val Lys Asn Met Tyr Arg Ala Gly Pro Ala
          370          375          380
Gly Ile Arg Thr Thr Gln Ala Phe Ser Gln Asp Cys Arg Trp Asp Thr
385          390          395          400
Leu Asp Asp Asp Arg Ala Glu Gly Cys Ile Arg Ser Leu Glu His Ala
          405          410          415
Tyr Ser Lys Asp Gly Gly Leu Ala Val Leu Tyr Gly Asn Phe Ala Glu
          420          425          430
Asn Gly Cys Ile Val Lys Tnr Ala Gly Val Asp Asp Ser Ile Leu Lys
          435          440          445
Phe Thr Gly Pro Ala Lys Val Tyr Glu Ser Gln Asp Gly Ala Val Asp
          450          455          460
Ala Ile Leu Gly Gly Lys Val Val Glu Gly Asp Val Val Val Ile Arg
465          470          475          480
Tyr Glu Gly Pro Lys Gly Gly Pro Gly Met Gln Glu Met Leu Tyr Pro
          485          490          495
Thr Thr Phe Leu Lys Ser Met Gly Leu Gly Lys Ala Cys Ala Leu Ile
          500          505          510
Thr Asp Gly Arg Phe Ser Gly Gly Thr Ser Gly Leu Ser Ile Gly His
          515          520          525
Val Ser Pro Glu Ala Ala Ser Gly Gly Asn Ile Ala Ile Ile Glu Asp
          530          535          540
Gly Asp Leu Ile Glu Ile Asp Ile Pro Asn Arg Gly Ile Gln Leu Lys
545          550          555          560
Leu Ser Asp Gln Glu Ile Ala Ala Arg Arg Glu Ala Gln Glu Ala Arg
          565          570          575
Gly Asp Lys Ala Trp Thr Pro Lys Asp Arg Gln Arg Glu Val Ser Phe
          580          585          590
Ala Leu Arg Ala Tyr Ala Ser Leu Ala Thr Ser Ala Asp Lys Gly Ala
          595          600          605
Val Arg Asp Lys Ser Lys Leu Gly Gly
610          615

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<210> 8507

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 8507

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Pro Gly Arg Cys Pro Ala Thr Arg Gly Val Leu Ala Pro Met Gly Ser
1          5          10          15
Cys Phe Leu Thr Met Cys Pro Ala Ser Leu Met Gly Cys Phe Ser Ser
          20          25          30
Ala Arg Ala Leu Pro Ala Ile Ala Asp Ala Val Lys Gly Asp Ile Ala
          35          40          45
Ile Leu Ala Asp Ser Gly Ile Arg Asn Gly Leu Asp Val Val Arg Met
          50          55          60
Ile Ala Leu Gly Ala Asp Ser Val Leu Leu Gly Arg Ala Tyr Leu Tyr
65          70          75          80
Ala Leu Ala Thr Ser Gly Gln Ala Gly Val Ala Asn Leu Leu Asn Leu
          85          90          95
Ile Glu Lys Glu Met Lys Val Ala Met Thr Leu Thr Gly Ala Lys Ser
          100          105          110
Ile Ser Glu Ile Asn Lys Asp Ser Leu Val Gln Glu Leu Ser Lys Leu

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115 120 125
 Pro Ala Ala Leu Ala Pro Leu Ser Gln Gly Asn Ala Ala
 130 135 140

<210> 8508

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 8508

Glu Asn Leu Thr His Pro Ala Pro Pro Gln Leu Tyr Arg Gln Ala Asn
 1 5 10 15
 Thr Arg Thr Gln Lys Gln His His Ile Gly Gly Glu Arg Met Thr Tyr
 20 25 30
 Ser Gly Arg Val Asp Ile Gln Gln Val Ile Asp Glu Ser Pro Phe Ser
 35 40 45
 Gly Phe His Trp Leu Leu Ile Val Leu Gly Phe Leu Val Leu Ala Ile
 50 55 60
 Asp Gly Phe Asp Thr Ala Ala Met Gly Tyr Ile Ala Pro Thr Leu Ser
 65 70 75 80
 Thr Glu Trp Gly Ile His Lys Gln Asp Leu Gly Pro Val Leu Ser Ala
 85 90 95
 Ala Leu Leu Gly Leu Ser Leu Gly Ala Leu Ile Ala Gly Pro Val Ser
 100 105 110
 Asp Arg Met Gly Arg Lys Arg Val Leu Val Phe Ser Cys Leu Phe Phe
 115 120 125
 Gly Leu Ala Ser Leu Gly Thr Ala Trp Ala Gln Ser Leu Asn Thr Leu
 130 135 140
 Thr Leu Trp Arg Phe Leu Thr Gly Leu Gly Leu Gly Ala Ala Met Pro
 145 150 155 160
 Asn Ala Ile Thr Leu Ile Ser Glu Phe Ala Pro Gln Arg Cys Arg Ala
 165 170 175
 Met Ala Ile Asn Thr Met Tyr Cys Gly Phe Pro Leu Gly Ala Ala Gly
 180 185 190
 Gly Gly Ala Ile Ser Ser Trp Leu Ile Pro His His Gly Trp Arg Ser
 195 200 205
 Val Leu Leu Thr Gly Ala Ile Ala Pro Leu Ile Leu Thr Val Leu Leu
 210 215 220
 Ala Leu Leu Leu Pro Glu Ser Val Lys Phe Leu Val Gln Arg Gly Lys
 225 230 235 240
 Asp Ile Ala Gln Val Arg Arg Ile Ala Ser Arg Phe Ala Arg Ser Thr
 245 250 255
 Leu Asp Ser Val Thr Gly Phe Phe Leu Thr Glu Glu Lys Val Ala Ser
 260 265 270
 Lys Lys Gly Ser Val Ser Gln Leu Phe Ser Met Pro Trp Leu Pro Gly
 275 280 285
 Thr Leu Met Leu Trp Val Thr Tyr Phe Met Gly Leu Val Ile Tyr Tyr
 290 295 300
 Val Leu Leu Ser Trp Met Pro Thr Leu Met Gln Gly Met Gly Tyr Ala
 305 310 315 320
 Leu Ala Glu Ser Ala Trp Leu Thr Ser Leu Phe Thr Phe Gly Gly Thr
 325 330 335
 Ala Gly Ile Leu Leu Ala Gly Trp Met Met Asp Arg Trp Glu Ala His
 340 345 350
 Lys Val Val Ala Cys Gly Phe Val Leu Thr Met Gly Leu Ile Leu Leu
 355 360 365
 Leu Gly Ile Glu His Asn His Ile Ala Leu Phe Gly Gly Leu Ile Phe
 370 375 380
 Leu Met Gly Ile Ala Met Asn Gly Ala Gln Ser Gly Met Gln Thr Leu
 385 390 395 400
 Ala Ala Thr Phe Tyr Pro Thr Glu Cys Arg Ala Thr Gly Ile Ala Trp

405 410 415
 Met Gln Gly Ile Gly Arg Phe Gly Gly Val Ala Gly Thr Met Thr Ser
 420 425 430
 Ala Gln Leu Leu Ser Met Gln Trp Gln Ala Asp Ser Ile Leu Met Ile
 435 440 445
 Leu Ser Val Pro Ala Leu Val Ala Ala Ala Thr Val Tyr Lys Met
 450 455 460
 Leu Tyr Ser Arg Ala Gln Glu Pro Gly Val Ala
 465 470 475

<210> 8509

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 8509

Gly Gly Ser Met Leu Asn Ile Val Leu Phe Glu Pro Glu Ile Pro Pro
 1 5 10 15
 Asn Thr Gly Asn Ile Ile Arg Leu Cys Ala Asn Thr Gly Phe Arg Leu
 20 25 30
 His Ile Ile Glu Pro Met Gly Phe Thr Trp Asp Asp Lys Arg Leu Arg
 35 40 45
 Arg Ala Gly Leu Asp Tyr His Glu Phe Thr Ala Val Val Arg His His
 50 55 60
 Asp Tyr Ala Ala Phe Leu Asp Ala Glu Lys Pro Gln Arg Met Phe Ala
 65 70 75 80
 Leu Thr Thr Lys Gly Thr Pro Ala His Ser Ala Val Ser Tyr Gln Asp
 85 90 95
 Gly Asp Tyr Leu Met Phe Gly Pro Glu Thr Arg Gly Leu Pro Ala Thr
 100 105 110
 Ile Leu Asp Ala Leu Pro Ala Glu Gln Lys Ile Arg Ile Pro Met Met
 115 120 125
 Pro Asp Ser Arg Ser Met Asn Leu Ser Asn Ala Val Ser Val Val Val
 130 135 140
 Tyr Glu Ala Trp Arg Gln Leu Gly Tyr Pro Gly Ala Ile Leu Arg Ser
 145 150 155 160

<210> 8510

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 8510

Ile Ile Thr Thr Asn Asn Phe Ala Glu Lys Asp Val Asp Thr Glu Leu
 1 5 10 15
 Leu Lys Thr Phe Leu Glu Val Ser Arg Thr Arg His Phe Gly Arg Ala
 20 25 30
 Ala Glu Ala Leu Tyr Leu Thr Gln Ser Ala Val Ser Phe Arg Ile Arg
 35 40 45
 Gln Leu Glu Asn Gln Leu Gly Val Asn Leu Phe Thr Arg His Arg Asn
 50 55 60
 Asn Ile Arg Leu Thr Pro Ala Gly Glu Lys Leu Leu Pro Tyr Ala Glu
 65 70 75 80
 Thr Leu Met Asn Thr Trp Gln Ala Ala Arg Lys Glu Val Ala His Thr
 85 90 95
 Ser Arg His Asn Glu Phe Ser Ile Gly Ala Ser Ala Ser Leu Trp Glu
 100 105 110
 Cys Met Leu Ser Gln Trp Leu Met Arg Leu Tyr Arg Ser His Asn His
 115 120 125

Leu Gln Phe Glu Ala Arg Ile Ala Gln Arg Gln Ser Leu Val Lys Gln
 130 135 140
 Leu His Glu Arg Gln Leu Asp Leu Leu Ile Thr Thr Glu Ala Pro Lys
 145 150 155 160
 Met Asp Glu Phe Ser Ser Gln Ile Val Gly Gln Phe Ser Leu Ala Leu
 165 170 175
 Tyr Ala Ser Glu Pro Ala Met Met Lys Ala Asp Leu Asn Tyr Leu Arg
 180 185 190
 Leu Glu Trp Gly Pro Asp Phe Gln Gln His Glu Thr Gly Leu Ile Ala
 195 200 205
 Ser Asp Asp Ile Pro Gln Leu Thr Thr Ser Ser Ala Glu Ile Ala Cys
 210 215 220
 Gln His Leu Pro Ala Leu Lys Gly Cys Thr Trp Leu Pro Val Arg Trp
 225 230 235 240
 Ala Asp Asn Lys Pro Ala Leu His Val Thr Thr Asp Ser Thr Thr Leu
 245 250 255
 Ser Arg Pro Leu Tyr Ala Ile Trp Leu Gln Asn Ser Asp Lys Gln Ser
 260 265 270
 Gln Ile Lys Asp Leu Leu Lys Thr Ser Ile Leu Asp 285
 275 280

<210> 8511

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 8511

Lys Glu Gly Val Glu Ser Val Asp Leu Arg Asp Leu Lys Met Phe Leu
 1 5 10 15
 His Leu Ala Glu Ser Arg His Phe Gly Arg Ser Ala Arg Ala Met His
 20 25 30
 Val Ser Pro Ser Thr Leu Ser Arg Gln Ile Gln Arg Leu Glu Glu Asp
 35 40 45
 Leu Gly Gln Pro Leu Phe Val Arg Asp Asn Arg Thr Val Thr Leu Thr
 50 55 60
 Glu Ala Gly Glu Glu Leu Arg Ile Phe Ala Gln Gln Thr Leu Leu Gln
 65 70 75 80
 Tyr Gln Gln Leu Arg His Thr Ile Asp Gln Gln Gly Pro Ser Leu Ser
 85 90 95
 Gly Glu Leu His Ile Phe Cys Ser Val Thr Ala Ala Tyr Ser His Leu
 100 105 110
 Pro Pro Ile Leu Asp Arg Phe Arg Ala Glu His Pro Ser Val Glu Ile
 115 120 125
 Lys Leu Thr Thr Gly Asp Ala Ala Asp Ala Met Glu Lys Val Val Thr
 130 135 140
 Gly Glu Ala Asp Leu Ala Ile Ala Gly Lys Pro Glu Thr Leu Pro Gly
 145 150 155 160
 Ala Val Ala Phe Ser Met Leu Glu Asn Leu Ala Val Val Leu Ile Ala
 165 170 175
 Pro Ala Leu Pro Cys Pro Val Arg Asn Gln Val Ser Val Glu Lys Pro
 180 185 190
 Asp Trp Ser Thr Val Pro Phe Ile Met Ala Asp Gln Gly Pro Val Arg
 195 200 205
 Arg Arg Ile Glu Leu Trp Phe Arg Arg Gln Lys Ile Ser Asn Pro Ser
 210 215 220
 Ile Tyr Ala Thr Val Gly Gly His Glu Ala Met Val Ser Met Val Ala
 225 230 235 240
 Leu Gly Cys Gly Val Ala Leu Leu Pro Glu Val Val Leu Glu Asn Ser
 245 250 255
 Pro Glu Pro Val Arg Asn Arg Val Met Ile Leu Glu Arg Ser Asp Glu
 260 265 270

Lys Thr Pro Phe Glu Leu Gly Val Cys Ala Gln Lys Lys Arg Leu His
 275 280
 Glu Pro Leu Ile Asp Ala Phe Trp Thr Ile Leu Pro Asn His
 290 295 300

<210> 8512

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 8512

Leu Lys Arg Pro Trp Ser Asp Ile Arg Glu Leu Met Gly Arg Pro Gly
 1 5 10 15
 Cys Asp Ser Lys Asp Thr Leu Thr Arg Lys Met Pro Arg Asp Ala Trp
 20 25 30
 Arg Phe Gly Ala Asp Gly Ile Val Phe Ser Asn His Val Pro Arg Gln
 35 40 45
 Leu Asp Gly Val Phe Phe Leu Arg Pro Arg Pro Ala Gly His Cys Arg
 50 55 60
 Cys Gly Glu Arg Arg Tyr Cys Asp Pro Gly Arg
 65 70 75

<210> 8513

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 8513

Cys Trp His Ser His Arg Gln Gly Gly Leu Met Ser Leu Ser Val Val
 1 5 10 15
 Tyr Thr Arg Ala Ile Gly Val Lys Ala Pro Leu Ile Ser Val Glu
 20 25 30
 Val His Leu Ser Asn Gly Leu Pro Gly Leu Thr Leu Val Gly Leu Pro
 35 40 45
 Glu Thr Thr Val Lys Glu Ala Arg Asp Arg Val Arg Ser Ala Ile Ile
 50 55 60
 Asn Ser Gly Tyr Ala Phe Pro Ala Lys Lys Ile Thr Ile Asn Leu Ala
 65 70 75 80
 Pro Ala Asp Leu Pro Lys Glu Gly Gly Arg Tyr Asp Leu Pro Ile Ala
 85 90 95
 Ile Ala Leu Leu Ala Ala Ser Gln Gln Leu Asn Thr Pro Gly Leu Ser
 100 105 110
 Ser Cys Glu Phe Val Gly Glu Leu Ala Leu Thr Gly Ala Leu Arg Gly
 115 120 125
 Val Pro Gly Ala Ile Ser Gly Ala Leu Glu Ala Ile Arg Ala Gly Arg
 130 135 140
 Gln Ile Ile Val Ala Asn Glu Asn Ala Ser Glu Val Ser Leu Ile Ala
 145 150 155 160
 Glu Lys Gly Cys Leu Val Ala Gly His Leu Gln Glu Val Cys Ala Trp
 165 170 175
 Leu Glu Gly Arg His Glu Leu Ala Glu Pro Gln Glu Asn Asp Glu Val
 180 185 190
 Ala Pro Asp Ser Pro Glu Asp Leu Ser Asp Ile Met Gly Gln Glu Gln
 195 200 205
 Gly Lys Arg Ala Leu Glu Ile Trp Ala Ala Gly Gly His Asn Leu Leu
 210 215 220
 Leu Ile Gly Pro Pro Gly Thr Gly Lys Thr Met Leu Ala Ser Arg Leu
 225 230 235 240
 Ser Gly Leu Leu Pro Pro Leu Asn Asn His Glu Ala Leu Glu Ser Ala
 245 250 255
 Ala Ile Phe Ser Leu Val Ser Ser Thr Ser Leu His Lys Gln Trp Arg

260 265 270
 Arg Arg Pro Phe Arg Ser Pro His His Ser Ala Ser Leu Thr Ala Met
 275 280 285
 Val Gly Gly Gly Ser Ile Pro Gly Pro Gly Glu Ile Ser Leu Ala His
 290 295 300
 Asn Gly Ile Leu Phe Leu Asp Glu Leu Pro Glu Phe Glu Arg Arg Val
 305 310 315 320
 Leu Asp Ala Leu Arg Glu Pro Ile Glu Ser Gly Glu Ile His Leu Ser
 325 330 335
 Arg Thr Arg Ala Lys Ile Ser Tyr Pro Ala Gln Phe Gln Leu Val Ala
 340 345 350
 Ala Met Asn Pro Ser Pro Thr Gly His Tyr Gln Gly Asn His Asn Arg
 355 360 365
 Cys Thr Pro Glu Gln Thr Leu Arg Tyr Leu Ser Lys Leu Ser Gly Pro
 370 375 380
 Phe Leu Asp Arg Phe Asp Leu Ser Leu Glu Ile Pro Leu Pro Pro Pro
 385 390 395 400
 Gly Leu Leu Arg Gln Thr Gly Ile Lys Gly Glu Ser Ser Ala Thr Val
 405 410 415
 Arg Glu Arg Val Ile Ala Ala Gln Ala Arg Gln Tyr Val Arg Gln Asn
 420 425 430
 Arg Leu Asn Ala Arg Leu Asp Asn Ser Gly Ile Arg Gln Phe Cys Ser
 435 440 445
 Leu Asn Ala Glu Asp Ala Gly Trp Leu Glu Glu Thr Leu Thr Arg Phe
 450 455 460
 Gly Leu Ser Ile Arg Ala Trp Gln Arg Leu Leu Lys Val Ala Arg Thr
 465 470 475 480
 Val Ala Asp Val Glu Gly Cys Pro Gly Ile Glu Arg Arg His Leu Gln
 485 490 495
 Glu Ala Leu Ser Tyr Arg Ala Ile Asp Arg Leu Leu Leu His Leu Gln
 500 505 510
 Lys Met Leu Ala
 515

<210> 8514

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 8514

Glu Ser Gly Pro Cys Leu Ser Ser Ser Val Ala Gly His Pro Leu Arg
 1 5 10 15
 Pro Ala Arg Asp Arg Arg Leu Gly Glu Pro Leu Pro His Leu Leu Ala
 20 25 30
 Asn Pro Ile Trp Ala His Pro Met Ala Arg Gly Pro Lys Val Pro Leu
 35 40 45
 Phe Gly Leu Ala Thr Leu Cys Gly Ile Ser Tyr Arg Phe Gln
 50 55 60

<210> 8515

<211> 496

<212> PRT

<213> Enterobacter cloacae

<400> 8515

Gln Leu Ala Lys Ser Ser Leu Phe Leu Leu Leu Ile Tyr Thr Val Ser
 1 5 10 15
 Asn Lys Glu Asn Leu Met Lys Lys Tyr Gln Arg Leu Ala Gln Gln Ile
 20 25 30
 Ile Ser Gln Ile Glu Leu Gly Val Trp Leu Pro Gly Asp Lys Leu Pro
 35 40 45


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Ser Leu Arg Glu Gln Val Ala Gly Ser Gly Met Ser Phe Met Thr Val
50          55          60
Gly His Ala Tyr Gln Met Leu Glu Ser Gln Gly Arg Ile Val Ala Arg
65          70          75          80
Pro Gln Ser Gly Tyr Tyr Val Ala Ala Arg Pro Thr Thr His Gln Pro
85          90          95
Ala Pro Pro Ala Gln Val Met Arg Asp Glu Val Val Asp Ile Asn Thr
100          105          110
Tyr Ile Phe Asp Val Leu Gln Ala Ser Arg Asp Pro Ser Val Val Pro
115          120          125
Phe Ala Ser Ala Phe Pro Asp Pro Arg Leu Phe Pro Leu Gln Gln Leu
130          135          140
Asn Arg Ser Leu Ala Asn Val Ser Lys Thr Ala Thr Ala Met Ser Val
145          150          155          160
Ile Glu Asn Leu Pro Pro Gly Asn Val Asp Leu Arg His Ala Ile Ala
165          170          175
Arg Arg Tyr Ala Gln Gln Gly Met Asn Ile Ser Pro Asp Glu Ile Val
180          185          190
Ile Thr Ala Gly Ala Leu Glu Ala Leu Asn Leu Ser Leu Gln Ala Val
195          200          205
Thr Glu Pro Gly Asp Trp Val Ile Val Glu Asn Pro Cys Phe Tyr Gly
210          215          220
Ala Leu Gln Ala Leu Glu Arg Leu Lys Leu Lys Ala Leu Ser Val Ala
225          230          235          240
Thr Asp Val Arg Glu Gly Ile Asp Leu Ser Ala Leu Glu Gln Ala Leu
245          250          255
Asn Asp Tyr Pro Val Lys Ala Cys Trp Leu Met Thr Asn Ser Gln Asn
260          265          270
Pro Leu Gly Phe Thr Leu Ser Ala Glu Lys Lys Ala Gln Leu Val Ala
275          280          285
Leu Leu Thr Arg His Asn Val Thr Leu Ile Glu Asp Val Tyr Ser
290          295          300
Glu Leu Tyr Phe Gly Arg Glu Lys Pro Leu Pro Ala Lys Ala Trp Asp
305          310          315          320
Lys Gln Asp Met Thr Leu His Cys Ser Ser Phe Ser Lys Cys Leu Val
325          330          335
Ala Gly Phe Arg Ile Gly Trp Val Thr Ala Gly Lys His Ala Arg Arg
340          345          350
Ile Gln Gln Leu Gln Leu Met Ser Thr Leu Ser Thr Ser Ser Pro Met
355          360          365
Gln Leu Ala Leu Val Asp Tyr Leu Ala Thr Lys Arg Tyr Asp Ala His
370          375          380
Leu Arg Arg Leu Arg Arg Thr Leu Ala Glu Arg Lys Gln Gln Ala Trp
385          390          395          400
Gln Ser Leu Leu Arg His Met Pro Ala Gly Val Lys Ile His His Asn
405          410          415
Asp Ser Gly Tyr Phe Leu Trp Leu Glu Leu Pro Glu Gln Leu Asp Ala
420          425          430
Gly Arg Leu Ser Glu Lys Ala Leu Ile His Gln Ile Ser Ile Ala Pro
435          440          445
Gly Lys Met Phe Ser Thr Ser Asn Ile Trp Thr Pro Phe Phe Arg Phe
450          455          460
Asn Thr Ser Trp Gly Trp Gly Glu Arg Glu Glu Gln Ala Val Val Gln
465          470          475          480
Leu Ala Gly Leu Ile Arg Glu Met Met Leu His Pro Val Thr Pro
485          490          495

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<210> 8516

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 8516

Tyr Leu Ser Gly Tyr Asp Val Thr Lys Lys Leu Asp Leu Cys Gln His
 1 5 10 15
 Met Thr His Ile Ala Cys Gly Tyr Phe Ser Ala Gln Val Asn Arg Met
 20 25 30
 Thr Leu Tyr Gln Lys Met Leu Val Phe Tyr Ala Ile Met Ala Ser Ile
 35 40 45
 Cys Ala Leu Ile Thr Trp Phe Leu Ser Lys Asp Arg Lys Arg Ile Arg
 50 55 60
 Leu Leu Ser Ala Phe Leu Val Gly Ser Thr Trp Pro Met Ser Phe Pro
 65 70 75 80
 Val Ala Leu Leu Ile Ser Leu Phe
 85

<210> 8517

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 8517

Leu Pro Cys Gln Leu Val Lys Arg Gly Asp His Gln Gln Gln Pro Leu
 1 5 10 15
 Arg Arg Arg Lys Arg Gly Arg Gln Gly Thr Gly Leu Gln Arg Thr Met
 20 25 30
 Tyr Gly Gly Asn Gly Pro Gly Phe Gly Leu His Leu Asn Asn Pro Arg
 35 40 45
 Asp Ile Ala Pro Asp Val Phe Tyr Pro Ile Thr Ser Pro Gly Val Ser
 50 55 60
 Leu Phe Ser His Arg Gly Ala Gly Ser Asp Gly Val Asp Gly Asp His
 65 70 75 80
 Phe Ala Gly Thr Lys Arg Asn Arg Arg Asp Cys Thr Ile Ala Val Asn
 85 90 95
 Ser Leu His Arg Thr Thr Pro Leu His Cys Ala Lys Arg Gly Val Cys
 100 105 110
 Lys Thr Thr Thr Asp Pro Glu Tyr Tyr Leu Cys Ile Leu Ala Lys Leu
 115 120 125
 Arg Phe Tyr Asp Phe Arg Phe Cys Val Leu Gly Met Arg Cys Ile Asn
 130 135 140
 Asp Ser Lys Ala Ile Arg Val Lys Lys Leu Arg Glu Ile Val Thr Arg
 145 150 155 160
 Ala His Asn Tyr Ala His Pro Leu Ser Thr Met Arg Arg Val Met Pro
 165 170 175
 Ile Met His Arg Phe Arg Val Asn Tyr Gly Glu Glu Gly Met Arg Ser
 180 185 190
 Ala Phe Trp Val Gly Cys Ala Ala Leu Leu Leu Ser Ala Cys Ser Asn
 195 200 205
 Glu Pro Val Gln Gln Ala Thr Ala Ala His Val Thr Pro Gly Met Arg
 210 215 220
 Ala Ala Met Ser Ser Ser Gly Gln Ala Asn Cys Ala Met Ile Gly Gly
 225 230 235 240
 Ser Leu Ser Val Ala Arg Gln Leu Asp Gly Ser Ala Ile Gly Met Cys
 245 250 255
 Ala Leu Pro Asn Gly Lys Arg Cys Ser Glu Gln Ser Leu Ala Val Gly
 260 265 270
 Ser Cys Gly Ser Tyr
 275

<210> 8518

<211> 487

<212> PRT

<213> Enterobacter cloacae

<400> 8518

Gln Arg Lys Gln Cys Arg Phe Gln Gln Asp Asn Ala Met Gln Asn Gln
 1 5 10 15
 Leu Leu Ile Asn Gly Glu Leu Val Ala Gly Glu Gly Leu Lys Gln Ala
 20 25 30
 Val Tyr Asn Pro Ala Thr Gly Asp Val Leu Leu Glu Ile Ala Glu Ala
 35 40 45
 Ser Glu Ala Gln Val Asp Ala Ala Val Gln Ala Ala Asp Arg Ala Phe
 50 55 60
 Thr Glu Trp Gly Gln Thr Thr Pro Lys Thr Arg Ala Glu Cys Leu Leu
 65 70 75 80
 Lys Leu Ala Asp Val Ile Glu Ala Asn Ala Asp Ala Phe Ala Asn Leu
 85 90 95
 Glu Ser Leu Asn Cys Gly Lys Pro Leu His Cys Val Gln Gly Asp Glu
 100 105 110
 Ile Pro Ala Val Val Asp Val Phe Arg Phe Phe Ala Gly Ala Ala Arg
 115 120 125
 Cys Leu Asn Gly Leu Ala Ala Gly Glu Tyr Leu Glu Gly His Thr Ser
 130 135 140
 Met Ile Arg Arg Asp Pro Val Gly Val Val Ala Ser Ile Ala Pro Trp
 145 150 155 160
 Asn Tyr Pro Leu Met Met Ala Ala Trp Lys Leu Ala Pro Ala Leu Ala
 165 170 175
 Ala Gly Asn Cys Val Val Ile Lys Pro Ser Glu Ile Thr Pro Leu Thr
 180 185 190
 Ala Leu Lys Leu Ala Glu Leu Ala Lys Asp Ile Phe Pro Pro Gly Val
 195 200 205
 Leu Asn Val Leu Phe Gly Arg Gly Lys Thr Val Gly Asp Pro Leu Thr
 210 215 220
 Gly His Glu Lys Val Arg Met Val Ser Leu Thr Gly Ser Ile Ala Thr
 225 230 235 240
 Gly Glu His Ile Ile Gly His Thr Ala Ser Ser Val Lys Arg Thr His
 245 250 255
 Met Glu Leu Gly Gly Lys Ala Pro Val Ile Val Phe Asp Asp Ala Asp
 260 265 270
 Leu Asp Ala Val Val Glu Gly Val Arg Thr Phe Gly Phe Tyr Asn Ala
 275 280 285
 Gly Gln Asp Cys Thr Ala Ala Cys Arg Ile Tyr Ala Gln Lys Gly Ile
 290 295 300
 Tyr Pro Ala Leu Val Glu Lys Leu Gly Ala Val Ala Ser Leu Lys
 305 310 315 320
 Met Gly Ala Pro Asp Asp Ala Ser Thr Glu Leu Gly Pro Leu Ser Ser
 325 330 335
 Ala Ala His Leu Ser Arg Val Cys Ala Ala Val Asp Glu Ala Lys Thr
 340 345 350
 Leu Gly His Ile Arg Val Val Thr Gly Gly Ser Lys Lys Glu Gly Ala
 355 360 365
 Gly Tyr Tyr Phe Gln Pro Thr Leu Leu Ala Gly Ala Lys Gln Glu Asp
 370 375 380
 Ala Ile Val Gln Arg Glu Val Phe Gly Pro Val Val Ser Val Thr Glu
 385 390 395 400
 Phe Glu Asp Glu Ala Gln Val Leu Asn Trp Ala Asn Asp Ser Gln Tyr
 405 410 415
 Gly Leu Ala Ser Ser Val Trp Thr Lys Asp Val Gly Arg Ala His Arg
 420 425 430
 Leu Ser Ala Arg Leu Gln Tyr Gly Cys Thr Trp Val Asn Thr His Phe
 435 440 445
 Met Leu Val Ser Glu Met Pro His Gly Gly Met Lys Leu Ser Gly Tyr
 450 455 460

Gly Lys Asp Met Ser Val Tyr Gly Leu Glu Asp Tyr Thr Val Val Arg
 465 470 475 480,
 His Val Met Phe Lys His
 485

<210> 8519

<211> 81

<212> PRT

<213> *Enterobacter cloacae*

<400> 8519

Gly Val Thr Met Ser His Leu Asn Lys Val Ile Ala Arg Val Asp Ala
 1 5 10 15
 Thr Ile Glu Glu Ser Val Ile Thr His Met Asn Glu Leu Leu Ile Glu
 20 25 30
 Leu Ser Asp Asp Ala Glu Leu Ser Arg Glu Asp Arg Tyr Thr Gln Gln
 35 40 45
 Gln Arg Leu Arg Thr Ala Ile Ala His His Gly Lys Gln His Lys Glu
 50 55 60
 Glu Ala Glu Ala Arg His Ala His Leu Thr Gln Gly Gly Thr Ile Leu
 65 70 75 80

<210> 8520

<211> 195

<212> PRT

<213> *Enterobacter cloacae*

<400> 8520

Tyr Asp Val Met Asn Thr Met Thr Asp Asn Met Asn Gln Arg Ile Ser
 1 5 10 15
 Ala Arg Ile Arg Leu Glu Arg Glu Ser Arg Gly Trp Ser Leu Ser Glu
 20 25 30
 Leu Ala Glu Arg Ala Gly Ile Ser Arg Ala Met Ile His Lys Ile Glu
 35 40 45
 Arg Gly Asp Ser Ser Pro Thr Ala Thr Leu Leu Ala Arg Leu Ser Gly
 50 55 60
 Ala Phe Gly Ile Ser Met Ser Thr Leu Ile Ala Arg Ala Glu Met Gln
 65 70 75 80
 Glu Gly Lys Leu Leu Arg Leu Ala Asn Gln Pro Val Trp Arg Asp Pro
 85 90 95
 Gln Thr His Tyr Leu Arg Arg His Val Ser Pro Arg Thr Asp Met Pro
 100 105 110
 Ile Asp Leu Val Gln Val Glu Leu Pro Ala Gly Ser Asp Val Pro Met
 115 120 125
 Pro Ala Ser Ser Tyr Ala Leu Ala Arg Gln Leu Ile Trp Leu Gln Ala
 130 135 140
 Gly Glu Leu Val Phe Leu Glu Gly Asp Thr Arg His Glu Met Lys Ala
 145 150 155 160
 Gly Asp Cys Leu Glu Leu Gly Pro Pro Asn Asp Cys Arg Phe Ile Asn
 165 170 175
 Glu Thr Asp Glu Ser Cys Leu Tyr Leu Val Val Arg Leu Asn Gln Ser
 180 185 190
 Gly Ser

195

<210> 8521

<211> 367

<212> PRT

<213> *Enterobacter cloacae*

<400> 8521

Cys Lys Gly Asp Pro Gln Asp Asn Val Pro Asp Leu Asn Asp Ile Phe
 1 5 10 15
 Ser Ser Lys Glu Arg Arg Met Asn Gln Ser Thr Thr Gln Asn Arg Arg
 20 25 30
 Trp Val Leu Ala Ser Arg Pro His Gly Ala Pro Val Ala Gln Asn Phe
 35 40 45
 Arg Leu Glu Glu Gln Pro Ile Pro Thr Pro Ala Glu Gly Gln Val Leu
 50 55 60
 Leu Arg Thr Val Trp Leu Ser Leu Asp Pro Tyr Met Arg Gly Arg Met
 65 70 75 80
 Ser Asp Ala Pro Ser Tyr Ser Pro Pro Val Glu Ile Gly Ala Val Met
 85 90 95
 Val Gly Gly Thr Val Ser Arg Val Glu Thr Ser Arg His Pro Asp Tyr
 100 105 110
 Lys Glu Gly Glu Trp Val Leu Gly Tyr Ser Gly Trp Gln Glu Tyr Glu
 115 120 125
 Leu Ser Asp Gly Gln Gly Leu Val Lys Leu Gly Glu Asn Pro Ser His
 130 135 140
 Pro Ser Trp Ala Leu Gly Val Leu Gly Met Pro Gly Phe Thr Ala Tyr
 145 150 155 160
 Met Gly Leu Leu Asp Ile Gly Gln Pro Gln Ala Gly Glu Thr Leu Val
 165 170 175
 Val Ala Ala Ala Thr Gly Pro Val Gly Ala Thr Val Gly Gln Ile Gly
 180 185 190
 Lys Ile Lys Gly Cys Arg Val Ile Gly Val Ala Gly Gly Glu Glu Lys
 195 200 205
 Cys Arg His Ala Val Asp Val Leu Gly Phe Asp Ala Cys Leu Asp His
 210 215 220
 His Ala Asp Asp Phe Ala Glu Gln Leu Ala Lys Ala Cys Pro Gln Gly
 225 230 235 240
 Ile Asp Val Tyr Tyr Glu Asn Val Gly Gly Lys Val Phe Asp Ala Val
 245 250 255
 Leu Pro Leu Leu Asn Thr Ser Ala Arg Val Pro Val Cys Gly Leu Val
 260 265 270
 Ser Gly Tyr Asn Ala Thr Asn Leu Pro Glu Gly Pro Asp Arg Leu Pro
 275 280 285
 Leu Leu Met Gly Thr Ile Leu Lys Lys Arg Ile Arg Met Gln Gly Phe
 290 295 300
 Ile Ile Ala Gln Asp Tyr Gly His Arg Ile Val Glu Phe Gln Gln Glu
 305 310 315 320
 Met Gly Arg Trp Val Lys Glu Gly Lys Ile His Tyr Arg Glu Gln Val
 325 330 335
 Thr Glu Gly Leu Asn Ala Ala Pro Glu Ala Leu Ile Gly Leu Leu Glu
 340 345 350
 Gly Lys Asn Phe Gly Lys Val Val Ile Arg Val Ala Ala Asp
 355 360 365

<210> 8522

<211> 266

<212> PRT

<213> *Enterobacter cloacae*

<400> 8522

Gly Cys Ile Asn Ile Gln Ser Val Ile His Gly Val Leu Met Asn Ser
 1 5 10 15
 Phe Tyr Ser Gln Gln Ala Gly Cys Thr Val Arg Trp Gln Asp Leu Pro
 20 25 30
 Gly Phe Gly Asp Pro Val Val Phe Ile His Gly Leu Gly Cys Ala Ser
 35 40 45

Ser Tyr Glu Tyr Pro Arg Ile Val Cys Asp Thr Arg Phe Gly Gly Arg
 50 55 60
 Arg Ala Ile Leu Ile Asp Leu Pro Gly Ser Gly Tyr Ser Asp Lys Pro
 65 70 75 80
 Asp Asn Tyr Arg Tyr Arg Thr Ser Glu Gln Ala Gln Val Val Val Glu
 85 90 95
 Leu Leu Asn His Leu Gly Leu Asp Ser Leu Trp Leu Tyr Gly His Ser
 100 105 110
 Met Gly Gly Ser Ile Ala Ile Glu Thr Ala Thr Leu Leu Thr Ser Arg
 115 120 125
 Val Lys Gly Leu Ile Val Ser Glu Pro Asn Phe His Ala Gly Gly Gly
 130 135 140
 Met Phe Ser Arg Ala Ile Ala Ala Gln Thr Glu Gln His Phe Leu Ala
 145 150 155 160
 Gln Gly Tyr Asp Asp Met Leu Arg Ala Glu Thr Ser Pro Trp Ala Gly
 165 170 175
 Ser Leu Gln Ser Asn Ala Pro Trp Ala Val Trp Arg Gly Ala Thr Ser
 180 185 190
 Leu Val Glu Gly Val Lys Pro Asp Trp Glu His Leu Phe Leu Ser Leu
 195 200 205
 Arg Cys Pro Val Met Leu Val Phe Gly Glu Arg Ser Leu Pro Asp Asp
 210 215 220
 Asp Phe Asn Arg Leu Gln Gln Asn Gly Val Ala Val Lys Ile Ile Pro
 225 230 235 240
 Asp Ala Gly His Ser Met Ser Trp Glu Asn Pro Ser Ala Leu Ala Gln
 245 250 255
 Ala Leu Ser Gly Phe Ile Asn Gly Ser
 260 265

<210> 8523

<211> 563

<212> PRF

<213> Enterobacter cloacae

<400> 8523

Asn Asn Leu Ile Val Ile Arg Tyr Leu Ser Gly Gln Tyr Val Cys Ala
 1 5 10 15
 Val Ile Thr Val His Tyr Asn Lys Thr Glu Arg Val Ile Thr Met Ser
 20 25 30
 Thr Gly Lys Thr Val Leu Ala Leu Ala Leu Ser Ala Leu Leu Pro Ala
 35 40 45
 Ser Ala Ala Trp Ala Ala Asn Lys Asp Thr Ile Ile Tyr Cys Ser Glu
 50 55 60
 Ala Ser Pro Glu Ser Phe Asn Pro Gln Ile Ala Ser Ser Gly Pro Ser
 65 70 75 80
 Phe Val Ala Ser Ser Gln Thr Leu Tyr Asn Arg Leu Ile Asn Phe Asp
 85 90 95
 Pro Val Lys Asn Thr Pro Val Pro Ser Leu Ala Glu Ser Trp Thr Ile
 100 105 110
 Ser Pro Asp Gly Lys Thr Tyr Thr Phe Thr Leu Arg Lys Gly Val Lys
 115 120 125
 Phe Asn Ser Asn Lys Tyr Phe Lys Pro Thr Arg Asp Phe Asn Ala Asp
 130 135 140
 Asp Val Ile Phe Ser Val Met Arg Gln Lys Asp Pro Lys His Pro Tyr
 145 150 155 160
 His Asn Val Ser Gln Gly Asn Tyr Glu Tyr Phe Asn Asp Val Gly Leu
 165 170 175
 Asp Lys Leu Ile Gln Asp Val Lys Lys Ile Asp Asp Tyr His Val Gln
 180 185 190
 Phe Thr Leu Ser Glu Pro Asn Ala Ala Phe Leu Ala Asp Trp Gly Met
 195 200 205

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Asp Phe Ala Ser Ile Leu Ser Ala Glu Tyr Ala Asp Ala Met Leu Lys
210 215 220
Lys Gly Thr Pro Glu Asn Val Asp Thr Trp Pro Ile Gly Thr Gly Pro
225 230 235 240
Tyr Val Leu Gln Gln Tyr Lys Val Asp Ser Leu Ile Arg Tyr Val Ala
245 250 255
Asn Pro Asn Tyr Trp Asp Gly Glu Val Pro Thr Lys His Leu Ile Phe
260 265 270
Ser Ile Thr Pro Asn Val Glu Thr Arg Leu Ala Lys Leu Gln Thr Asn
275 280 285
Glu Cys Gln Ile Ile Pro Ala Pro Ser Pro Val Gln Phe Glu Ala Ile
290 295 300
Lys Lys Asn Lys Asp Leu Thr Leu His Ser Val Asp Ala Leu Asn Val
305 310 315 320
Gly Tyr Leu Ala Phe Asn Thr Glu Lys Lys Pro Phe Asp Asn Val Leu
325 330 335
Val Arg Gln Ala Leu Asn Tyr Ala Thr Asp Lys Lys Ala Ile Val Asn
340 345 350
Ala Val Phe Met Gly Ser Gly Thr Val Ala Lys Ser Pro Ile Pro Pro
355 360 365
Asn Met Leu Gly Phe Asn Asn Asp Leu Lys Asp Tyr Gly Tyr Asp Pro
370 375 380
Glu Lys Ala Lys Ala Leu Leu Lys Gln Ala Gly Leu Glu Lys Gly Ala
385 390 395 400
Glu Val Thr Leu Trp Ser Met Pro Val Gln Arg Pro Tyr Asn Pro Asn
405 410 415
Ser Arg Arg Ile Ala Glu Met Ile Gln Ala Asp Trp Ala Lys Val Gly
420 425 430
Val Lys Ala Lys Ile Val Ser Tyr Glu Trp Gly Glu Tyr Leu Ser Gly
435 440 445
Met Arg Lys Gly Glu His Asp Ser Ala Leu Phe Gly Trp Met Ser Asp
450 455 460
Asn Gly Asp Pro Asp Asn Phe Ala Asp Val Leu Leu Gly Cys Asn Ser
465 470 475 480
Ile Lys Thr Gly Ser Asn Ala Ala Arg Trp Cys Asp Lys Gly Tyr Asp
485 490 495
Glu Leu Val Gln Lys Ala Lys Leu Thr Ser Asn Pro Asp Glu Arg Ala
500 505 510
Lys Leu Tyr Gly Gln Ala Gln Glu Ile Phe Tyr Gln Gln Ala Pro Trp
515 520 525
Ile Ala Leu Ala Asn Gly Lys Thr Phe Tyr Ala Thr Arg Ser Asn Val
530 535 540
Thr Gly Tyr Ser Val Ser Leu Met Gly Ser Asp Phe Ser Lys Ala Lys
545 550 555 560
Leu Asn

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<210> 8524

<211> 238

<212> PRT

<213> *Enterobacter cloacae*

<400> 8524

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Thr Val Ala Glu Asn Gly Ile Leu Phe Trp Leu Arg Glu Leu Asn Met
1 5 10 15
Leu Asp Leu Glu Asn Leu Glu Lys Ala Gln Arg Ile Ser Leu Thr Met
20 25 30
Gln Val Glu Asn Ser Leu Lys Gly Ala Leu Ile Thr Gly Ser Leu Lys
35 40 45
Pro Gly Ala Arg Leu Ile Thr Lys Glu Ile Ala Asp Lys Leu Gly Thr
50 55 60

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Ser Ile Thr Pro Val Arg Glu Ala Leu Leu Arg Leu Val Ser Ala Gly
 65 70 75 80
 Ala Leu Gln Ala Thr Pro Ala Gln Ala Phe Leu Val Pro Glu Val Thr
 85 90 95
 Leu Glu Arg Tyr Asn Glu Ile Asn Ala Ile Arg Lys Gln Leu Glu Pro
 100 105 110
 Met Ala Val Ala Ala Cys Gln Asn Met Thr Glu Thr Lys Leu Gly
 115 120 125
 Ala Leu Arg Ala Leu Ser Asp Asn Phe Ser Thr Ala Met His Gln Gly
 130 135 140
 Asp Val Gln Lys Ala Ile His Ala Asn Arg Val Phe Arg Phe Thr Leu
 145 150 155 160
 Tyr Gln Tyr Ala Glu Met Pro Thr Leu Asn Ser Leu Ile Glu Gln Leu
 165 170 175
 Trp Val Arg Ile Gly Pro Cys Ile Asn Tyr Leu His Glu Glu Met Lys
 180 185 190
 Asp Ile Pro Ala Thr Thr Tyr His Tyr Ala Asp Leu Leu Ser Ala Leu
 195 200 205
 Glu Gln Arg Asp Val Thr Ala Ser Arg Glu Ala Ile Asp Arg Ala Ile
 210 215 220
 Asp Glu Ala Asn Ile Leu Leu Gln Arg Gln Tyr Tyr Ser
 225 230 235

<210> 8525

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 8525

Phe Ile Leu Ser Val Ile Val Phe Met Thr Ser Tyr Tyr Ser Val Arg
 1 5 10 15
 Met Val Phe Arg Gly Ser Phe Val Thr Lys Lys Gln Gly Phe Cys Arg
 20 25 30
 Ser Asp Gly Ile His Glu Leu Cys Asn Ile Val Thr Lys Pro Tyr Tyr
 35 40 45
 Tyr Ser Glu Gln His Ser Gln Arg Leu Thr Met Ile Val Arg His Ala
 50 55 60
 Cys Lys Glu Asp Cys Ala Ala Ile Gly Glu Ile Tyr Asn His Ala Val
 65 70 75 80
 Leu His Thr Ala Ala Ile Trp Asn Asp Thr Thr Val Asp Thr Asp Asn
 85 90 95
 Arg Ile Ala Trp Phe Glu Ala Arg Thr Leu Leu Gly Tyr Pro Val Leu
 100 105 110
 Val Ser Glu Glu Glu Gly Val Val Thr Gly Tyr Ala Ser Phe Gly Asp
 115 120 125
 Trp Arg Ala Phe Asp Gly Phe Arg His Thr Val Glu His Ser Val Tyr
 130 135 140
 Val His Pro Asp His Gln Gly Lys Gly Ile Gly Arg Leu Leu Met Thr
 145 150 155 160
 Glu Leu Ile Lys Glu Ala Arg Gln Ile Gly Lys His Val Met Val Ala
 165 170 175
 Gly Ile Glu Ala Gln Asn Gln Ala Ser Ile His Leu His Glu Thr Leu
 180 185 190
 Gly Phe Ile Thr Thr Gly Asn Met Gln Gln Val Gly Thr Lys Phe Gly
 195 200 205
 Arg Trp Leu Asp Leu Thr Phe Met Gln Leu Gln Leu Asp Glu Arg Ser
 210 215 220
 Asp Pro Asp Ala Leu Pro
 225 230

<210> 8526

<211> 117
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8526
 Gln Gln Ala Phe Lys Gly Gly Asn Met Leu Arg Ile Pro Gln Ser Cys
 1 5 10 15
 Ile His Thr Arg Ser Thr Pro Phe Trp Asn Lys Glu Thr Ala Pro Ala
 20 25 30
 Gly Ile Phe Lys Arg His Leu Asp Thr Gly Thr Arg Pro Gly Val Tyr
 35 40 45
 Pro Arg Leu Ser Val Met Arg Gly Ala Val Arg Tyr Leu Gly Tyr Ala
 50 55 60
 Asp Glu Phe Thr Ser Glu Pro Asp Ser Glu Leu Val Ile Glu Ala Gly
 65 70 75 80
 Arg Phe Gly Val Phe Pro Pro Glu Arg Trp His His Ile Glu Val Met
 85 90 95
 Thr Asp Asp Thr Leu Phe Asn Ile Glu Phe Val Glu Pro Glu Val
 100 105 110
 Leu Lys Ser Leu
 115

<210> 8527
 <211> 127
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8527
 Ala Pro Ala Asn Met Lys Glu Thr Met Met Leu Arg Ile Pro Glu Asn
 1 5 10 15
 Phe Val His Thr Arg Ser Thr Pro Phe Trp Asn Lys Glu Thr Ala Pro
 20 25 30
 Lys Ala Leu Phe Thr His His Asn Thr Lys Ala Gly Val Tyr Gly Arg
 35 40 45
 Leu Ser Val Met Gln Gly Ala Val Arg Tyr Phe Gly Phe Ala Asp Gly
 50 55 60
 Asp Ala Thr Glu Pro Asp Leu Glu Val Val Ile Glu Ala Gly Ser Phe
 65 70 75 80
 Gly Ile Ser Pro Pro Gln Lys Trp His Arg Ile Glu Leu Leu Thr Asp
 85 90 95
 Asp Thr Tyr Phe Asn Ile Asp Phe Phe Ala Asp Pro Ala Val Thr Leu
 100 105 110
 Ser Gly Ala Gly Ile Gly Lys Val Val Asn Thr His Lys Glu
 115 120 125

<210> 8528
 <211> 62
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8528
 Ile Met Gly Lys Ala Thr Tyr Thr Val Thr Val Thr Asn Asn Ser Asn
 1 5 10 15
 Gly Val Ser Val Asp Tyr Glu Thr Glu Ala Pro Met Glu Leu Leu Ile
 20 25 30
 Pro Asp Val Ala Ala Asp Val Val Lys Asp Leu Val Asn Thr Val Arg
 35 40 45
 Ala Tyr Asp Thr Glu Asn Glu His Glu Val Cys Gly Trp
 50 55 60

<210> 8529

<211> 341
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8529
 Gly Val Thr Val Met Gly Ile Asp Leu Ser Ile Ile Trp Phe Val Ile
 1 5 10 15
 Ile Val Phe Ala Thr Leu Met Tyr Ile Val Met Asp Gly Phe Asp Leu
 20 25 30
 Gly Ile Gly Ile Leu Phe Pro Ala Thr Pro Asn Ala Asp Asp Arg Asp
 35 40 45
 Val Met Val Asn Ser Val Ala Pro Val Trp Asp Gly Asn Glu Thr Trp
 50 55 60
 Leu Val Leu Gly Gly Ala Ala Leu Phe Gly Ala Phe Pro Leu Ala Tyr
 65 70 75 80
 Ala Val Ile Ile Asp Ala Leu Thr Ile Pro Leu Thr Ile Met Leu Ile
 85 90 95
 Gly Leu Ile Phe Arg Gly Val Ala Phe Glu Phe Arg Phe Lys Ala Thr
 100 105 110
 Pro Ala His Arg Pro Phe Trp Asp Lys Ala Phe Ile Gly Gly Ser Ile
 115 120 125
 Val Ala Thr Phe Ser Gln Gly Ile Thr Val Gly Ala Val Ile Gln Gly
 130 135 140
 Phe Ser Val Thr Gly Arg Ala Tyr Ser Gly Gly Pro Phe Asp Trp Phe
 145 150 155 160
 Thr Ala Phe Asn Phe Phe Cys Gly Ala Gly Leu Val Val Ala Tyr Ala
 165 170 175
 Leu Leu Gly Ser Thr Trp Leu Val Met Lys Ser Glu Asn Ala Leu Gln
 180 185 190
 Lys Arg Met Arg Gln Leu Ser Lys Val Leu Leu Pro Leu Leu Leu Val
 195 200 205
 Phe Ile Ala Ile Ile Ser Ile Trp Thr Pro Leu Ala Gln Pro Ala Ile
 210 215 220
 Ala Ala Arg Trp Phe Thr Leu Pro Asn Leu Phe Tyr Leu Leu Pro Val
 225 230 235 240
 Pro Ala Leu Val Ala Ile Leu Ser Leu Cys Gln Trp Arg Cys Leu His
 245 250 255
 Asp Pro Ala Ser His Thr Leu Pro Phe Ile Met Thr Leu Gly Leu Val
 260 265 270
 Phe Leu Gly Phe Ser Gly Leu Gly Ile Ser Ile Trp Pro His Ile Ile
 275 280 285
 Pro Pro Asp Ile Thr Leu Trp Gln Ala Ala Ala Pro Ala Gln Ser Gln
 290 295 300
 Gly Phe Met Leu Val Gly Ala Leu Leu Ile Ile Pro Val Ile Leu Val
 305 310 315 320
 Tyr Thr Phe Trp Ser Tyr Tyr Val Phe Arg Gly Lys Val Gln His Gly
 325 330 335
 Glu Gly Tyr His
 340

<210> 8530
 <211> 81
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8530
 Ala Val Ser Val Asp Asn Pro Ser Val Leu Thr Lys Leu Leu Leu Trp
 1 5 10 15
 Gly Ser Phe Val Asn Arg Ala Gly Ile Arg Arg Cys Asn Pro Tyr His
 20 25 30
 Thr Arg His Thr Phe Ala Cys Trp Phe Leu Pro Val Ala Ala Asn Pro

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          35              40              45
Ser Phe Ile Ala Asn Gln Met Gly His Val Asn Ala Gln Met Val Tyr
   50              55              60
Glu Ile Tyr Ala Thr Trp Ile Glu Glu Met Asn Thr Lys Leu Thr Leu
   65              70              75              80

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<210> 8531

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 8531

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Cys Gly Thr Leu Pro Leu Trp Met Lys Thr Asp Cys Gly Gly Asn
   1              5              10              15
Arg Met Pro Gly Ile Ala Arg Asn Met Gly Tyr Ala Ser Phe Gly Trp
          20              25              30
Glu Pro Glu Glu Gly Trp Tyr Ala Gly Ala Asp Ala Arg Tyr Met Ser
   35              40              45
Asp Val Met Ala Asn Asp Thr Asn Thr Ala Lys Ala Pro Ser Tyr Thr
   50              55              60
Val Val Gly Leu Asn Thr Gly Tyr Lys Leu Asn Tyr Gly Lys Trp Gly
   65              70              75              80
Met Asp Ile Phe Gly Arg Val Asp Asn Leu Phe Asp Lys Glu Tyr Val
          85              90              95
Gly Ser Glu Ile Val Asn Ala Gly Tyr Asn Arg Tyr Tyr Glu Pro Ala
          100              105              110
Pro Gly Arg Asn Tyr Gly Val Gly Leu Ser Val Ser Tyr Arg Phe Glu
          115              120              125

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<210> 8532

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 8532

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Tyr Leu Ile Pro Pro Leu Phe Ile Ile Thr Val His Arg Leu Thr Leu
   1              5              10              15
Arg Gln Cys Met Phe Gly Pro Asp Ala Phe His Leu Ala Arg Ile Gln
          20              25              30
Phe Ala Phe Thr Val Ser Phe His Ile Ile Phe Pro Ala Ile Thr Ile
   35              40              45
Gly Leu Ala Ser Tyr Leu Ala Val Leu Glu Gly Leu Trp Leu Arg Thr
   50              55              60
Lys Asn Pro Val Trp Arg Ser Leu Tyr His Phe Trp Ser Lys Ile Phe
   65              70              75              80
Ala Val Asn Phe Gly Met Gly Val Val Ser Gly Leu Val Met Ala Tyr
          85              90              95
Gln Phe Gly Thr Asn Trp Ser Gly Phe Ser Gln Phe Ala Gly Ser Ile
          100              105              110
Thr Gly Pro Leu Leu Thr Tyr Glu Val Leu Thr Ala Phe Phe Leu Glu
          115              120              125
Ala Gly Phe Leu Gly Val Met Leu Phe Gly Trp Asn Lys Val Gly Pro
          130              135              140
Gly Leu His Phe Phe Ser Thr Cys Met Val Ala Leu Gly Thr Leu Met
          145              150              155              160
Ser Thr Phe Trp Ile Leu Ser Ser Asn Ser Trp Met Gln Thr Pro Gln
          165              170              175

```

Gly Tyr Glu Ile Ile Asn Gly Gln Val Val Pro Val Asp Trp Phe Ala
 180 185 190
 Val Val Phe Asn Pro Ser Phe Pro Tyr Arg Leu Leu His Met Ser Ile
 195 200 205
 Ala Ala Phe Leu Ser Ser Ala Leu Phe Val Gly Ala Ser Ala Ala Trp
 210 215 220
 His Leu Leu Arg Gly Asn Asn Thr Pro Ala Ile Arg Thr Met Phe Ser
 225 230 235 240
 Met Ala Leu Trp Met Thr Leu Ile Val Ala Pro Val Gln Ala Leu Val
 245 250 255
 Gly Asp Met His Gly Leu Asn Thr Leu Lys His Gln Pro Ala Lys Ile
 260 265 270
 Ala Ala Ile Glu Gly His Trp Glu Asn Pro Pro Gly Glu Pro Thr Pro
 275 280 285
 Leu Leu Leu Phe Gly Trp Pro Asp Met Glu Gln Glu Arg Thr Arg Phe
 290 295 300
 Gly Leu Glu Ile Pro Ala Leu Gly Ser Leu Ile Leu Thr His Ser Leu
 305 310 315 320
 Asp Lys Gln Val Pro Ala Leu Lys Glu Phe Pro Lys Glu Asp Arg Pro
 325 330 335
 Asn Ala Thr Ile Val Phe Trp Ser Phe Arg Ile Met Ala Gly Leu Gly
 340 345 350
 Met Leu Met Leu Leu Leu Gly Val Thr Ala Ile Trp Leu Arg Tyr Lys
 355 360 365
 Gln Arg Leu Tyr Thr Ser Arg Ser Phe Leu Trp Phe Ala Leu Leu Met
 370 375 380
 Gly Pro Ser Gly Leu Ile Ala Ile Leu Ala Gly Trp Val Thr Thr Glu
 385 390 395 400
 Val Gly Arg Gln Pro Trp Val Val Tyr Gly Leu Gln Arg Thr Lys Asp
 405 410 415
 Ala Val Ser Ala His Gly Asp Leu His Met Ser Ile Ser Leu Leu Ala
 420 425 430
 Phe Phe Val Val Tyr Thr Ala Val Phe Gly Val Gly Tyr Ser Tyr Met
 435 440 445
 Val Arg Leu Ile Lys Lys Gly Pro Gln Pro His Glu Ser Phe Ala Thr
 450 455 460
 Glu Ser Asp Gly Arg Pro Ala Arg Pro Leu Ser Ala Val Thr Thr Glu
 465 470 475 480
 Phe Lys Glu

<210> 8533

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 8533

Lys Met Lys Lys Leu Ala Ala Val Ser Leu Ile Ser Leu Val Leu Ala
 1 5 10 15
 Gly Cys Val Asn Pro Gly Lys Ala Ser Val Gln Thr Asp Gln Leu Glu
 20 25 30
 Asn His Arg Phe Val Leu Glu Asn Val Asp Gly Lys Ala Val Lys Gly
 35 40 45
 Gly Lys Thr Gln Pro Glu Ile Arg Phe Ser Ala Gln Pro Asn Ile Ser
 50 55 60
 Leu Ile Asn Asn Ile Val Val Ser Gly Thr Met Cys Asn Gly Phe Asn
 65 70 75 80
 Gly Gln Gly Lys Leu Ser Glu Gly Glu Leu Thr Val Lys Thr Leu Ala
 85 90 95
 Met Thr Arg Lys Leu Cys Thr Glu Pro Gln Leu Asn Glu Leu Asp Gln
 100 105 110

Thr Ile Ala Asp Met Leu Arg Thr Gly Ala Gln Val Asp Leu Thr Glu
 115 120 125
 Asp Gln Leu Thr Leu Ala Thr Ala Asn Lys Thr Leu Met Phe Lys Arg
 130 135 140
 Val Glu
 145

<210> 8534

<211> 158

<212> PRT

<213> *Enterobacter cloacae*

<400> 8534

Ala Gln Arg Ser Gly Cys Ser Ala Met Asn Gln Ser Leu Thr Leu Ala
 1 5 10 15
 Phe Leu Val Ala Ala Gly Ile Gly Leu Val Val Gln Asn Thr Leu Met
 20 25 30
 Val Arg Ile Thr Gln Ser Ser Ser Thr Ile Leu Ile Ala Met Leu Leu
 35 40 45
 Asn Ser Leu Val Gly Ile Val Leu Phe Val Ser Met Leu Leu Val Lys
 50 55 60
 Asn Gly Met Ala Gly Phe Asn Glu Leu Ala Ser Thr Val Arg Trp Trp
 65 70 75 80
 Thr Leu Ile Pro Gly Leu Leu Gly Ser Phe Phe Val Phe Ala Ser Ile
 85 90 95
 Ser Gly Tyr Gln Asn Val Gly Ala Ala Thr Thr Ile Ala Val Leu Val
 100 105 110
 Ala Ser Gln Leu Ile Gly Gly Leu Val Met Asp Ile Leu Lys Ser Asn
 115 120 125
 Gly Val Pro Leu Arg Ala Leu Val Gly Pro Val Cys Gly Ala Val Met
 130 135 140
 Leu Val Ala Gly Ala Trp Leu Val Ala Arg Arg Gln Phe
 145 150 155

<210> 8535

<211> 1179

<212> PRT

<213> *Enterobacter cloacae*

<400> 8535

Gly Cys Cys Pro Met Gln Thr Ile Asp Gly Asn Gly Ala Val Ala Ser
 1 5 10 15
 Val Ala Phe Arg Thr Ser Glu Val Ile Ala Ile Tyr Pro Ile Thr Pro
 20 25 30
 Ser Ser Thr Met Ala Glu Gln Ala Asp Ala Trp Ala Gly Asn Gly Ile
 35 40 45
 Lys Asn Val Trp Gly Asp Val Pro Arg Val Val Glu Met Gln Ser Glu
 50 55 60
 Ala Gly Ala Ile Ala Thr Val His Gly Ala Leu Gln Thr Gly Ala Leu
 65 70 75 80
 Ser Thr Ser Phe Thr Ser Ser Gln Gly Leu Leu Met Ile Pro Thr
 85 90 95
 Leu Tyr Lys Leu Ala Gly Gln Leu Thr Pro Phe Val Leu His Val Ala
 100 105 110
 Ala Arg Thr Val Ala Thr His Ala Leu Ser Ile Phe Gly Asp His Ser
 115 120 125
 Asp Val Met Ala Val Arg Gln Thr Gly Cys Ala Met Leu Cys Ala Ser
 130 135 140
 Ser Val Gln Glu Ala Gln Asp Phe Ala Leu Ile Ser His Ile Ala Thr
 145 150 155 160
 Leu Lys Ser Arg Val Pro Phe Ile His Phe Phe Asp Gly Phe Arg Thr

Ser	His	Glu	Ile	Asn	Lys	Ile	Val	Pro	Leu	Pro	Asp	Asp	Thr	Ile	Leu
Asn	Leu	Leu	Pro	Gln	Ala	Asp	Ile	Asp	Ala	His	Arg	Ala	Arg	Ala	Leu
Asn	Pro	Glu	His	Pro	Val	Ile	Arg	Gly	Thr	Ser	Ala	Asn	Pro	Asp	Thr
Tyr	Phe	Gln	Ser	Arg	Glu	Ala	Thr	Asn	Pro	Trp	Tyr	Asn	Ala	Val	Thr
Glu	His	Val	Glu	Gln	Ala	Met	Asp	Asp	Phe	Ala	Ala	Ala	Thr	Gly	Arg
Glu	Tyr	Lys	Pro	Phe	Glu	Tyr	Tyr	Gly	His	Pro	Gln	Ala	Glu	Arg	Val
Ile	Val	Leu	Met	Gly	Ser	Ala	Ile	Gly	Thr	Cys	Glu	Glu	Val	Val	Asp
Glu	Leu	Leu	Thr	Arg	Gly	Glu	Lys	Val	Gly	Val	Leu	Lys	Val	Arg	Leu
Tyr	Arg	Pro	Phe	Ser	Ala	Lys	His	Leu	Leu	Ala	Ala	Leu	Pro	Asp	Ser
Ala	His	Ala	Val	Ala	Val	Leu	Asp	Arg	Thr	Lys	Glu	Pro	Gly	Ala	Gln
Ala	Glu	Pro	Leu	Tyr	Leu	Asp	Val	Met	Thr	Ala	Leu	Ala	Glu	Thr	Phe
Asn	Arg	Gly	Glu	Arg	Glu	Thr	Leu	Pro	Arg	Val	Ile	Gly	Gly	Arg	Tyr
Gly	Leu	Ser	Ser	Lys	Glu	Phe	Gly	Pro	Glu	Cys	Val	Leu	Ala	Val	Phe
Ala	Glu	Leu	Arg	Glu	Ala	Lys	Pro	Lys	Pro	Arg	Phe	Thr	Val	Gly	Ile
Tyr	Asp	Asp	Val	Thr	Asn	Leu	Ser	Leu	Pro	Leu	Pro	Glu	Asn	Thr	Leu
Pro	Ser	Asn	Ala	Lys	Leu	Glu	Ala	Leu	Phe	Tyr	Gly	Leu	Gly	Ser	Asp
Gly	Ser	Val	Ser	Ala	Thr	Lys	Asn	Asn	Ile	Lys	Ile	Ile	Gly	Asn	Ser
Thr	Pro	Trp	Tyr	Ala	Gln	Gly	Tyr	Phe	Val	Tyr	Asp	Ser	Lys	Lys	Ala
Gly	Gly	Leu	Thr	Val	Ser	His	Leu	Arg	Val	Ser	Glu	His	Pro	Ile	Arg
Ser	Ala	Tyr	Leu	Ile	Ser	Gln	Ala	Asp	Phe	Val	Gly	Cys	His	Gln	Leu
Gln	Phe	Ile	Asp	Asp	Lys	Tyr	Gln	Met	Ala	Glu	Arg	Leu	Lys	Pro	Gly
Ile	Phe	Leu	Ile	Asn	Thr	Pro	Tyr	Ser	Ala	Asp	Glu	Val	Trp	Ala	Arg
Leu	Pro	Gln	Glu	Val	Gln	Ala	Val	Leu	Asn	Gln	Lys	Gln	Ala	Arg	Leu
Tyr	Val	Ile	Asn	Ala	Ala	Lys	Ile	Ala	Arg	Glu	Cys	Gly	Leu	Ala	Ala
Arg	Ile	Asn	Thr	Val	Met	Gln	Met	Ala	Phe	Phe	His	Leu	Thr	Asn	Ile
Leu	Pro	Gly	Asp	Ser	Ala	Leu	Met	Glu	Leu	Gln	Gly	Ala	Ile	Ala	Lys
Ser	Tyr	Ser	Ser	Lys	Gly	Gln	Glu	Leu	Val	Glu	Arg	Asn	Trp	Gln	Ala
Leu	Ala	Leu	Ala	Arg	Glu	Ser	Leu	Phe	Ala	Val	Pro	Leu	Gln	Pro	Val
Asn	Ala	Ser	Ser	Pro	Asn	Arg	Pro	Pro	Val	Val	Ser	Asp	Ala	Ala	Pro
Asp	Phe	Val	Lys	Thr	Val	Thr	Ala	Ala	Met	Leu	Ala	Gly	Leu	Gly	Asp

Thr Leu Pro Val Ser Ala Leu Pro Asp Gly Thr Trp Pro Met Gly
 660 665 670
 Thr Thr Arg Trp Glu Lys Arg Asn Ile Ala Glu Ala Ile Pro Ile Trp
 675 680 685
 Lys Glu Glu Leu Cys Thr Gln Cys Asn His Cys Val Ala Ala Cys Pro
 690 695 700
 His Ser Ala Ile Arg Ala Lys Val Val Ser Pro Glu Ala Leu Asp Gly
 705 710 715 720
 Ala Pro Glu Ser Leu His Ser Leu Asp Val Lys Ser Arg Asp Met Arg
 725 730 735
 Gly Gln Lys Tyr Val Leu Gln Val Ala Pro Glu Asp Cys Thr Gly Cys
 740 745 750
 Asn Leu Cys Val Glu Val Cys Pro Ala Lys Asp Arg Gln Asp Pro Ser
 755 760 765
 Ile Lys Ala Ile Asn Met Met Ser Arg Leu Glu His Val Glu Glu Glu
 770 775 780
 Lys Val Asn Tyr Asp Phe Phe Leu Asp Leu Pro Glu Ile Asp Arg Asn
 785 790 795 800
 Lys Leu Glu Arg Ile Asp Ile Arg Thr Ser Gln Leu Ile Thr Pro Leu
 805 810 815
 Phe Glu Tyr Ser Gly Ala Cys Ser Gly Cys Gly Glu Thr Pro Tyr Ile
 820 825 830
 Lys Leu Leu Thr Gln Leu Tyr Gly Asp Arg Met Leu Ile Ala Asn Ala
 835 840 845
 Thr Gly Cys Ser Ser Ile Tyr Gly Gly Asn Leu Pro Ser Thr Pro Tyr
 850 855 860
 Thr Thr Asp Ala Asn Gly Arg Gly Pro Ala Trp Ala Asn Ser Leu Phe
 865 870 875 880
 Glu Asp Asn Ala Glu Phe Gly Leu Gly Phe Arg Leu Thr Val Asp Gln
 885 890 895
 His Arg Ala Arg Ile Met Arg Leu Leu Ala Gln Phe Ala Asp Lys Ile
 900 905 910
 Pro Ala Glu Leu Asn Asp Ala Leu His Ala Glu Ala Thr Pro Asp Val
 915 920 925
 Arg Arg Ala Gln Val Ala Glu Leu Arg His Ala Leu Gln Gly Val Glu
 930 935 940
 Gly Ala Glu Gln Leu Leu Thr Asp Ala Asp Ala Leu Val Glu Lys Ser
 945 950 955 960
 Ile Trp Leu Ile Gly Gly Asp Gly Trp Ala Tyr Asp Ile Gly Phe Gly
 965 970 975
 Gly Leu Asp His Val Leu Ser Leu Thr Glu Asn Val Asn Ile Leu Val
 980 985 990
 Leu Asp Thr Gln Cys Tyr Ser Asn Thr Gly Gly Gln Ala Ser Lys Ala
 995 1000 1005
 Thr Pro Leu Gly Ala Val Thr Lys Phe Gly Glu His Gly Lys Arg Lys
 1010 1015 1020
 Ala Arg Lys Asp Leu Gly Val Ser Met Met Met Tyr Gly His Val Tyr
 1025 1030 1035 1040
 Val Ala Gln Ile Ser Leu Gly Ala Gln Leu Asn Gln Thr Val Lys Ala
 1045 1050 1055
 Ile Gln Glu Ala Glu Ala Tyr Pro Gly Pro Ser Leu Ile Ile Ala Tyr
 1060 1065 1070
 Ser Pro Cys Glu Glu His Gly Tyr Asp Leu Ala Leu Ser His Asp Gln
 1075 1080 1085
 Met Arg Gln Leu Thr Ala Thr Gly Phe Trp Pro Leu Tyr Arg Phe Asp
 1090 1095 1100
 Pro Arg Arg Ala Asp Glu Gly Lys Leu Pro Leu Ala Leu Asp Ser Arg
 1105 1110 1115 1120
 Pro Pro Ser Asp Ala Leu Ala Glu Thr Leu Leu Gln Glu Gln Arg Phe
 1125 1130 1135
 Arg Arg Leu Asn Ala Gln Gln Pro Glu Val Ala Glu Gln Leu Trp Lys

1140 1145 1150
 Asp Ala Ala Asp Leu Gln Lys Arg Tyr Asp Phe Leu Ala Gln Leu
 1155 1160 1165
 Ala Gly Lys Ala Glu Lys Ser Thr Ser Glu
 1170 1175

<210> 8536
 <211> 385
 <212> PRT
 <213> Enterobacter cloacae

<400> 8536
 Lys Asn Asn Cys Lys Gly Ile Ile Lys Met Gln Arg Lys Val Leu Ala
 1 5 10 15
 Leu Met Ile Pro Ala Leu Leu Met Ala Gly Ala Ala His Ala Ala Glu
 20 25 30
 Ile Tyr Asn Lys Asp Gly Asn Lys Leu Asp Leu Tyr Gly Lys Val Asp
 35 40 45
 Gly Leu His Tyr Phe Ser Asp Asp Ala Ser Lys Asp Gly Asp Gln Thr
 50 55 60
 Tyr Met Arg Leu Gly Phe Lys Gly Glu Thr Gln Ile Asn Asp Met Met
 65 70 75 80
 Thr Gly Phe Ala Gln Trp Glu Tyr Asn Ile Gln Ala Asn Asn Thr Glu
 85 90 95
 Gly Ser Asp Asn Gln Ser Trp Thr Arg Leu Ala Phe Ala Gly Val Lys
 100 105 110
 Val Gly Asp Tyr Gly Ser Phe Asp Tyr Gly Arg Asn Tyr Gly Val Leu
 115 120 125
 Tyr Asp Val Glu Gly Trp Thr Asp Met Leu Pro Glu Phe Gly Gly Asp
 130 135 140
 Ser Tyr Thr Tyr Ala Asp Asn Phe Met Thr Gly Arg Ala Asn Gly Val
 145 150 155 160
 Ala Thr Tyr Arg Asn Thr Asp Phe Phe Gly Leu Val Gln Gly Leu Asn
 165 170 175
 Phe Ala Val Gln Tyr Gln Gly Asn Asn Glu Gly Asn Asn Cys Asp Glu
 180 185 190
 Asn Phe Cys Ser Thr Asn Glu Gly Thr Asn Asn Gly Arg Asp Thr Arg
 195 200 205
 His Glu Asn Gly Asp Gly Tyr Gly Ile Ser Ala Thr Tyr Asp Phe Gly
 210 215 220
 Met Gly Phe Ser Ala Gly Ala Ala Tyr Thr Ser Ser Asp Arg Thr Asn
 225 230 235 240
 Asp Gln Val Asn Tyr Thr Thr Ala Gly Gly Asp Thr Ala Asp Ala Trp
 245 250 255
 Thr Ala Gly Leu Lys Tyr Asp Ala Asn Asn Ile Tyr Leu Ala Ala Met
 260 265 270
 Tyr Ser Glu Thr Arg Asn Met Thr Pro Tyr Gly Asp Asn Ala Asp Ala
 275 280 285
 Val Ala Asn Lys Thr Gln Asn Phe Glu Val Thr Ala Gln Tyr Gln Phe
 290 295 300
 Asp Phe Gly Leu Arg Pro Ala Ile Ser Tyr Leu Gln Ser Lys Gly Lys
 305 310 315 320
 Asp Leu Gly Asn Gly Gln Asp Asp Lys Asp Leu Val Lys Tyr Ala Asp
 325 330 335
 Val Gly Ala Thr Tyr Tyr Phe Asn Lys Asn Met Ser Thr Tyr Val Asp
 340 345 350
 Tyr Lys Ile Asn Leu Leu Asp Glu Asp Asp Ser Phe Tyr Lys Asn Asn
 355 360 365
 Gly Ile Gly Thr Asp Asp Ile Val Ala Leu Gly Leu Val Tyr Gln Phe
 370 375 380

385

<210> 8537

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 8537

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Lys Arg Arg Tyr Ser Gly Ser Cys Gly Glu Ser Gly Ala Gly Leu Pro
1          5          10          15
Val Gly Arg Arg Gly Glu Asn Arg Gln Arg Ser Val Cys His Arg Ser
20          25          30
Ala Met Ala Thr Ala Ala Leu Ser Asp Ile Thr Thr Arg Val Glu Lys
35          40          45
Met Lys Arg Tyr Thr Pro Asp Phe Pro Glu Met Met Arg Leu Cys Glu
50          55          60
Thr Asn Phe Ala Gln Leu Arg Arg Leu Leu Pro Arg Asn Asp Ala Pro
65          70          75          80
Gly Glu Thr Val Ser Tyr Gln Val Ser Asn Ala Gln Tyr Arg Leu Thr
85          90          95
Ile Thr Glu Ser Thr Arg Tyr Thr Thr Leu Val Glu Ile Glu Gln Thr
100          105          110
Ala Pro Ser Ile Ser Tyr Trp Ser Leu Pro Ser Met Thr Val Arg Leu
115          120          125
Tyr His Asp Ala Met Val Ala Glu Val Cys Ser Ser Gln Gln Ile Phe
130          135          140
Arg Phe Lys Ala Arg Tyr Asp Tyr Pro Asn Lys Lys Leu His Gln Arg
145          150          155          160
Asp Glu Lys His Gln Ile Asn Gln Phe Leu Ala Asp Trp Leu Arg Tyr
165          170          175
Cys Leu Ala His Gly Ala Met Ala Ile Pro Val Cys
180          185

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<210> 8538

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 8538

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Gly His His Leu Glu Ser Leu Leu Asn Leu Thr Val Ala Gly Gly Ala
1          5          10          15
Pro Val Arg Ile Leu Gln Ile Thr Asp Thr His Leu Phe Ala Glu Lys
20          25          30
His Glu Thr Leu Leu Gly Val Asn Thr Trp Glu Ser Tyr Gln Ala Val
35          40          45
Leu Asp Ala Ile His Ala Glu Lys Arg Pro Cys Asp Leu Ile Val Ala
50          55          60
Thr Gly Asp Leu Ala Gln Asp Gln Ser Ser Ala Ala Tyr Gln His Phe
65          70          75          80
Ala Glu Gly Ile Ala Ser Phe Ser Val Pro Cys Val Trp Leu Pro Gly
85          90          95
Asn His Asp Phe Gln Pro Ala Met Tyr Ser Ser Leu Gln Asp Ala Gly
100          105          110
Ile Ser Pro Ala Lys Cys Val Phe Ala Gly Asp Gln Trp Gln Ile Leu
115          120          125
Leu Leu Asp Ser Gln Val Phe Gly Val Pro His Gly Glu Leu Ser Asp
130          135          140
Tyr Gln Leu Asp Trp Leu Glu Thr Lys Leu Ala Ala Glu Pro Asn Arg
145          150          155          160
Asn Thr Leu Leu Leu His His His Pro Leu Pro Ala Gly Cys Ser
165          170          175

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Trp Leu Asp Gln His Ser Leu Arg Asn Ser Ala Ala Leu Asp Gly Val
 180 185 190
 Leu Ala Lys Phe Pro Arg Val Lys Asn Leu Leu Cys Gly His Ile His
 195 200 205
 Gln Glu Gln Asp Leu Asp Trp Asn Gly Arg Arg Leu Leu Ala Thr Pro
 210 215 220
 Ser Thr Cys Val Gln Phe Lys Pro His Cys Ala Asn Phe Thr Leu Asp
 225 230 235 240
 Thr Ile Ala Pro Gly Trp Arg Trp Leu Glu Leu His Ala Asp Gly Ser
 245 250 255
 Leu Thr Thr Glu Val Cys Arg Leu Ala Gly Ala Gln Phe Arg Pro Asp
 260 265 270
 Thr Ala Ser Glu Gly Tyr
 275

<210> 8539

<211> 632

<212> PRT

<213> Enterobacter cloacae

<400> 8539

Ile Met Thr Gln Thr Tyr Asn Ala Asp Ala Ile Glu Val Leu Thr Gly
 1 5 10 15
 Leu Glu Pro Val Arg Arg Arg Pro Gly Met Tyr Thr Asp Thr Thr Arg
 20 25 30
 Pro Asn His Leu Gly Gln Glu Val Ile Asp Asn Ser Val Asp Glu Ala
 35 40 45
 Leu Ala Gly His Ala Lys Arg Val Asp Val Ile Leu His Ala Asp Gln
 50 55 60
 Ser Leu Glu Val Ile Asp Asp Gly Arg Gly Met Pro Val Asp Ile His
 65 70 75 80
 Pro Glu Glu Gly Val Pro Ala Val Glu Leu Ile Leu Cys Arg Leu His
 85 90 95
 Ala Gly Gly Lys Phe Ser Asn Lys Asn Tyr Gln Phe Ser Gly Gly Leu
 100 105 110
 His Gly Val Gly Ile Ser Val Val Asn Ala Leu Ser Lys Arg Val Glu
 115 120 125
 Val Asn Val Arg Arg Asp Gly Gln Val Tyr Asn Ile Ala Phe Glu Asn
 130 135 140
 Gly Glu Lys Val Gln Asp Leu Gln Val Val Gly Thr Cys Gly Lys Arg
 145 150 155 160
 Asn Thr Gly Thr Ser Val His Phe Trp Pro Asp Glu Ser Phe Phe Asp
 165 170 175
 Ser Pro Arg Phe Ser Val Ser Arg Leu Thr His Leu Leu Lys Ala Lys
 180 185 190
 Ala Val Leu Cys Pro Gly Val Glu Ile Thr Phe Lys Asp His Val Asn
 195 200 205
 Asn Thr Glu Gln Thr Trp Cys Tyr Ala Asp Gly Leu Asn Asp Tyr Leu
 210 215 220
 Cys Glu Ala Val Asn Gly Leu Pro Thr Leu Pro Glu Lys Pro Phe Val
 225 230 235 240
 Gly Asn Phe Glu Gly Asp Thr Glu Ala Val Asp Trp Ala Leu Leu Trp
 245 250 255
 Leu Pro Glu Gly Gly Glu Leu Leu Thr Glu Ser Tyr Val Asn Leu Ile
 260 265 270
 Pro Thr Met Leu Gly Gly Thr His Val Asn Gly Leu Arg Gln Gly Leu
 275 280 285
 Leu Asp Ala Met Arg Glu Phe Cys Glu Tyr Arg Asn Ile Leu Pro Arg
 290 295 300
 Gly Val Lys Leu Ser Ala Glu Asp Ile Trp Asp Arg Cys Ala Tyr Val
 305 310 315 320

Leu Ser Val Lys Met Gln Asp Pro Gln Phe Ala Gly Gln Thr Lys Glu
 325 330 335
 Arg Leu Ser Ser Arg Gln Cys Ala Ala Phe Val Ser Gly Val Val Lys
 340 345 350
 Asp Ala Phe Thr Leu Trp Leu Asn Gln Asn Val Gln Ala Ala Glu Met
 355 360 365
 Leu Ala Glu Met Ala Ile Ser Ser Ala Gln Arg Arg Leu Arg Ala Ala
 370 375 380
 Lys Lys Val Val Arg Lys Lys Leu Thr Ser Gly Pro Ala Leu Pro Gly
 385 390 395 400
 Lys Leu Ala Asp Cys Thr Ala Gln Asp Leu Asn Arg Thr Glu Leu Phe
 405 410 415
 Leu Val Glu Gly Asp Ser Ala Gly Gly Ser Ala Lys Gln Ala Arg Asp
 420 425 430
 Arg Glu Tyr Gln Ala Ile Met Pro Leu Lys Gly Lys Ile Leu Asn Thr
 435 440 445
 Trp Glu Val Ser Ser Asp Glu Val Leu Ala Ser Gln Glu Val His Asp
 450 455 460
 Ile Ser Val Ala Ile Gly Ile Asp Pro Asp Ser Asp Asp Leu Ser Gln
 465 470 475 480
 Leu Arg Tyr Gly Lys Ile Cys Ile Leu Ala Asp Ala Asp Ser Asp Gly
 485 490 495
 Leu His Ile Ala Thr Leu Leu Cys Ala Leu Phe Val Lys His Phe Arg
 500 505 510
 Ala Leu Val Lys Asn Gly His Val His Val Ala Leu Pro Pro Leu Tyr
 515 520 525
 Arg Ile Asp Leu Gly Lys Glu Val Tyr Tyr Ala Leu Thr Glu Glu Glu
 530 535 540
 Lys Ala Gly Val Leu Glu Gln Leu Lys Arg Lys Lys Gly Lys Pro Asn
 545 550 555 560
 Val Gln Arg Phe Lys Gly Leu Gly Glu Met Asn Pro Met Gln Leu Arg
 565 570 575
 Glu Thr Thr Leu Asp Pro Asn Thr Arg Arg Leu Val Gln Leu Thr Ile
 580 585 590
 Ser Asp Glu Asp Glu Gln Gln Thr Asn Ala Val Met Asp Met Leu Leu
 595 600 605
 Ala Lys Lys Arg Ser Glu Asp Arg Arg Asn Trp Leu Gln Glu Lys Gly
 610 615 620
 Asp Met Ala Asp Ile Glu Ala
 625 630

<210> 8540

<211> 759

<212> PRT

<213> *Enterobacter cloacae*

<400> 8540

Val Glu Glu Ser His Val Met Ser Asp Met Ala Glu Arg Leu Ala Leu
 1 5 10 15
 His Glu Phe Thr Glu Asn Ala Tyr Leu Asn Tyr Ser Met Tyr Val Ile
 20 25 30
 Met Asp Arg Ala Leu Pro Phe Ile Gly Asp Gly Leu Lys Pro Val Gln
 35 40 45
 Arg Arg Ile Val Tyr Ala Met Ser Glu Leu Gly Leu Asn Ala Thr Ala
 50 55 60
 Lys Phe Lys Lys Ser Ala Arg Thr Val Gly Asp Val Leu Gly Lys Tyr
 65 70 75 80
 His Pro His Gly Asp Ile Ala Cys Tyr Glu Ala Met Val Leu Met Ala
 85 90 95
 Gln Pro Phe Ser Tyr Arg Tyr Pro Leu Val Asp Gly Gln Gly Asn Trp
 100 105 110

595 600 605
 Gly Phe Ile Cys Thr Phe Asn Asp Leu Val Ser Arg Asn Arg Ala Gly
 610 615 620
 Lys Ala Leu Ile Ser Leu Pro Asp Asn Ala His Val Met Pro Leu
 625 630 635 640
 Ile Ile Glu Asn Glu Ser Asp Met Leu Leu Ala Ile Thr Ala Ala Gly
 645 650 655
 Arg Met Leu Met Phe Pro Val Ser Asp Leu Pro Glu Leu Ser Lys Gly
 660 665 670
 Lys Gly Asn Lys Ile Ile Ser Ile Pro Ser Ala Glu Ala Lys Gly
 675 680 685
 Glu Asp Ser Leu Ala His Leu Phe Leu Leu Pro Pro Gln Ser Thr Leu
 690 695 700
 Thr Ile His Val Gly Lys Arg Lys Ile Lys Leu Arg Pro Glu Glu Leu
 705 710 715 720
 Gln Lys Val Val Gly Glu Arg Gly Arg Arg Gly Ser Leu Met Arg Gly
 725 730 735
 Leu Gln Arg Ile Asp Arg Val Glu Ile Asp Ser Pro Ala Arg Ser Lys
 740 745 750
 Ala Asp Asp Ser Glu Glu
 755

<210> 8541

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 8541

Leu Ser Ala Val Arg Ala Ser Glu Val Ala Met Leu Tyr Ile Val Arg
 1 5 10 15
 Leu Ile Leu Thr Val Ile Tyr Cys Ile Leu Val Cys Ile Phe Gly Ser
 20 25 30
 Ile Tyr Cys Leu Phe Ser Pro Arg Asn Pro Lys His Val Ala Thr Phe
 35 40 45
 Gly His Met Phe Gly Arg Leu Ala Pro Leu Phe Gly Leu Lys Val Glu
 50 55 60
 Lys Arg Leu Pro Glu Gly Ala Glu Asn Phe Gly Asn Ala Ile Tyr Ile
 65 70 75 80
 Ala Asn His Gln Asn Asn Tyr Asp Met Val Thr Ala Ser Asn Ile Val
 85 90 95
 Leu Pro Pro Thr Val Thr Val Gly Lys Lys Ser Leu Leu Trp Ile Pro
 100 105 110
 Phe Phe Gly Gln Leu Tyr Trp Leu Thr Gly Asn Leu Leu Ile Asp Arg
 115 120 125
 Asn Asn Arg Ala Lys Ala His Gly Thr Ile Ala Glu Val Val Asp Gln
 130 135 140
 Phe Lys Lys Arg Arg Ile Ser Ile Trp Met Phe Pro Glu Gly Thr Arg
 145 150 155 160
 Ser Arg Gly Arg Gly Leu Leu Pro Phe Lys Thr Gly Ala Phe His Ala
 165 170 175
 Ala Ile Ala Ala Gly Val Pro Ile Ile Pro Val Cys Val Ser Asn Thr
 180 185 190
 Ser Asn Lys Ile Asn Leu Asn Arg Leu Asn Asn Gly Leu Val Ile Val
 195 200 205
 Glu Met Leu Pro Pro Val Asp Thr Ser Lys Tyr Gly Lys Asp Gln Val
 210 215 220
 Arg Glu Leu Ala Thr His Cys Arg Glu Leu Met Ala Gln His Ile Ala
 225 230 235 240
 Gln Leu Asp Lys Glu Val Ala Glu Arg Glu Ala Ala Gly Lys Ile
 245 250 255

<210> 8542
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (79)

<400> 8542
 Val Asp Cys Met Ala Met Arg Leu Asn Glu Asn Leu Asp Asp Asn Gly
 1 5 10 15
 Glu Met His Glu Ile Asn Val Thr Pro Phe Ile Asp Val Met Leu Val
 20 25 30
 Leu Leu Ile Ile Phe Met Val Ala Ala Pro Leu Ala Thr Val Asp Val
 35 40 45
 Lys Val Asn Leu Pro Ala Ser Ser Ser Gln Pro Gln Pro Arg Pro Glu
 50 55 60
 Lys Pro Ile Tyr Leu Ser Val Lys Ala Asp Lys Ser Met Phe Xaa
 65 70 75

<210> 8543
 <211> 234
 <212> PRT
 <213> Enterobacter cloacae

<400> 8543
 Pro Tyr Lys Arg Gln Pro Asn Ser Leu Glu Ile His Asn Phe Ile Thr
 1 5 10 15
 Ile Ala Thr Arg Thr Arg Pro Met Gln Lys Pro Glu Asn Val Pro Val
 20 25 30
 Thr Phe Ala Lys Asn Asp Val Glu Ile Ile Ala Arg Glu Thr Leu Tyr
 35 40 45
 Ser Gly Phe Phe Ser Met Glu Leu Tyr Arg Phe Arg His Arg Leu Phe
 50 55 60
 Asn Gly Glu Met Ser Gly Glu Ile Lys Arg Glu Ile Phe Glu Arg Gly
 65 70 75 80
 His Ala Ala Val Leu Leu Pro Tyr Asp Pro Val Arg Asp Glu Val Val
 85 90 95
 Leu Val Glu Gln Val Arg Ile Ala Ala Tyr Asp Thr Ser Glu Thr Pro
 100 105 110
 Trp Leu Leu Glu Met Val Ala Gly Met Ile Glu Glu Gly Glu Ser Val
 115 120 125
 Glu Asp Val Ala Arg Arg Glu Ala Leu Glu Glu Ala Gly Leu Val Val
 130 135 140
 Gly Arg Thr Lys Pro Val Leu Ser Tyr Leu Ala Ser Pro Gly Gly Thr
 145 150 155 160
 Thr Glu Arg Ser Ser Ile Met Val Gly Glu Val Asp Ala Thr Thr Ala
 165 170 175
 Glu Gly Ile His Gly Leu Ala Asp Glu Asn Glu Asp Ile Arg Val His
 180 185 190
 Val Val Ser Arg Glu Leu Ala Tyr Gln Trp Val Glu Glu Gly Lys Ile
 195 200 205
 Asp Asn Ala Ala Ser Val Ile Ala Leu Gln Trp Leu Glu Leu His Tyr
 210 215 220
 Gln Thr Leu Arg His Glu Trp Lys Lys
 225 230

<210> 8544
 <211> 453
 <212> PRT

<213> Enterobacter cloacae

<400> 8544

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Pro Ile Ala Gly Ser Ser Leu Ala Asn Pro Glu Ala Asn Val Ser Cys
1      5      10      15
Arg Ser His Tyr Lys Asn Leu Ala Leu His Val Gly Glu Asp Asp Met
      20      25      30
Lys Ser Thr Ser Thr Thr Asn Arg Thr Glu Tyr Tyr Lys Ile Ser Ser
      35      40      45
Phe Ile Phe Leu Tyr Phe Phe Thr Trp Ser Ala Ser Ile Gly Leu Leu
      50      55      60
Ala Ile Trp Leu Gly Gln Lys Ala Asn Leu Ser Gly Ser Val Ile Gly
65      70      75      80
Thr Val Phe Ala Val Asn Gly Ile Phe Ser Val Ile Leu Lys Pro Ile
      85      90      95
Tyr Gly Tyr Ile Leu Asp Lys Ile Gly Met Ser Lys Tyr Leu Leu Tyr
      100      105      110
Phe Val Val Ile Met Ser Ala Leu Met Ala Pro Phe Phe Ile Tyr Val
      115      120      125
Tyr Gln Pro Leu Leu Met Ser Asn Thr Leu Leu Gly Ile Ile Ile Gly
130      135      140
Ala Leu Tyr Leu Ser Phe Ala Trp Tyr Ala Gly Val Ala Ala Cys Glu
145      150      155      160
Ser Tyr Ser Asp Arg Phe Ser Arg Leu Asn Gly Met Glu Phe Gly Gln
      165      170      175
Ile Arg Met Trp Gly Ser Leu Gly Trp Ala Val Ala Ser Ser Phe Ser
      180      185      190
Gly Leu Leu Phe Asn Leu Ser Pro Ala Tyr Asn Phe Ile Leu Gly Ser
      195      200      205
Val Ala Ser Val Val Met Leu Ile Val Leu Leu Ser Leu Lys Val Asn
210      215      220
Thr Asn Ser Ala His Ala Gly Glu Val Leu Thr Lys Glu Lys Ile Ala
225      230      235      240
Pro Ser Asp Val Tyr Ala Leu Leu Arg Asn Arg Lys Phe Trp Ala Phe
      245      250      255
Cys Leu Tyr Val Ala Gly Val Ala Trp Met Met Phe Ile Ala Glu Gln
      260      265      270
Gln Phe Ser Arg Tyr Phe Val Thr Phe Phe Asp Asp Ile His Gln Gly
      275      280      285
Asn Ala Val Phe Gly Tyr Leu Gly Thr Val Gln Ser Gly Met Glu Phe
290      295      300
Val Met Tyr Met Val Ile Pro Leu Phe Val Asn Phe Ile Gly Ala Lys
305      310      315      320
Arg Gly Leu Leu Ile Val Gly Leu Val Val Gly Ala Arg Leu Ile Ile
      325      330      335
Ser Gly Met Cys Asp Ser His Leu Leu Ile Ser Val Leu Lys Pro Leu
      340      345      350
Tyr Gly Leu Glu Ile Cys Leu Leu Leu Val Ser Val Phe Lys Tyr Ile
      355      360      365
Ala Glu His Phe Asp Lys Arg Val Asn Ala Thr Met Tyr Leu Leu Gly
      370      375      380
Tyr Gln Ala Met Leu Tyr Val Gly Asn Val Val Val Ser Ser Pro Ala
385      390      395      400
Gly Tyr Met Tyr Asp Arg Ile Gly Phe Glu His Thr Tyr Ile Ile Met
      405      410      415
Gly Ala Thr Ala Leu Thr Phe Thr Leu Ile Ser Ala Phe Thr Leu Ser
      420      425      430
Ala Cys Gln Ser Lys Trp Arg Gly Ala Arg Ala Leu Asn Val Ala Glu
435      440      445
Thr Ser Thr Arg
450

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<210> 8545
 <211> 101
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8545
 Leu Leu Leu Ile Pro Gly Tyr Gln Leu Ser Lys Asn Phe Arg Glu Met
 1 5 10 15
 Leu Ala Ile Phe Cys Asp Ile Ala Arg Asp Val Arg His Phe Asn Tyr
 20 25 30
 Val Val Asp Asp Lys Gly Arg Gln Arg Leu His Ser Gln Glu Leu Ile
 35 40 45
 Arg Leu Val Glu Arg Gln Ile Arg Ala Val Tyr Ala His Ala Phe Glu
 50 55 60
 Glu Leu Ile Phe Leu Gly Glu Gly Phe Gln Arg Arg Val Pro Gly Gln
 65 70 75 80
 Gly Glu His Ile Phe Phe Ala Leu Asn Gln Thr Ala Arg Thr Val Phe
 85 90 95
 Phe Arg Arg Ile
 100

<210> 8546
 <211> 139
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8546
 Thr Gly Ala Ala Val Ala Gly Ile Gln Arg Thr Val Thr Phe Gly Lys
 1 5 10 15
 His Ile Val His Val Phe Phe His Gly Pro Arg Cys Ala His Pro Pro
 20 25 30
 Ala Arg His Leu Pro Asp His His Val Gly Pro Gln Glu Val Leu His
 35 40 45
 Phe Gly Leu His Val Val Ile Ala Val Arg Ala His Asp Leu Asn Ile
 50 55 60
 Met Ser Gly Val Ala Gln Glu Thr Ile Arg Asp Leu Gly Gln Gly Val
 65 70 75 80
 Ile Glu Leu Ala Phe Arg Val Arg Lys Phe Phe Arg Ala Val Asp Asn
 85 90 95
 Gln Asn Val Ala His Tyr Leu Ser Ser Met Met Arg Val Cys Arg Val
 100 105 110
 Phe Tyr Ala Arg Gly Arg Ser Gly Lys Ile Ser Lys Met Cys Lys Val
 115 120 125
 Phe Cys Ala Gln Arg Asn Asn Leu Thr Ser
 130 135

<210> 8547
 <211> 513
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8547
 Trp Leu Ser Ile Leu Arg Ser Ser Ile Lys Lys Leu Gln Ser Glu Lys
 1 5 10 15
 Pro Pro Val Arg Phe Asn Pro Val Ser Cys Lys Gly Lys Arg Ile Pro
 20 25 30
 Ala Leu Leu Val Val Ser Asp Gly Ala Tyr Met Ser Leu Ser Arg Arg
 35 40 45
 Gln Phe Ile Gln Ala Ser Gly Ile Ala Leu Cys Ala Gly Ala Ile Pro
 50 55 60

Arg Thr Ala Ser Ala Ala Gly Gln Gln Gln Pro Leu Pro Ile Pro Pro
 65 70 75 80
 Leu Ile Glu Ser Arg Arg Gly Gln Pro Leu Phe Leu Thr Leu Gln Arg
 85 90 95
 Ser His Trp Ser Phe Thr Gln Gly Thr Arg Ala Gln Val Trp Gly Ile
 100 105 110
 Asn Gly Arg Tyr Leu Gly Pro Thr Ile Arg Val Trp Asn Gly Asp Asp
 115 120 125
 Val Lys Leu Ile Tyr Ser Asn Arg Thr Thr Glu Asn Val Ala Met Thr
 130 135 140
 Val Ser Gly Leu Gln Val Pro Gly Pro Leu Ile Gly Gly Ala Ala Arg
 145 150 155 160
 Met Met Ser Pro Asn Ala Asp Trp Ala Pro Val Leu Pro Ile Arg Gln
 165 170 175
 Ser Ala Ala Thr Leu Trp Tyr His Ala Asn Thr Pro Asn Arg Thr Ala
 180 185 190
 Gln Gln Val Tyr Asn Gly Leu Ala Gly Met Trp Leu Ile Glu Asp Glu
 195 200 205
 Val Ser Lys Thr Leu Pro Ile Pro Asn His Tyr Gly Val Asp Asp Phe
 210 215 220
 Pro Ile Ile Ile Gln Asp Lys Arg Leu Asp Asn Phe Gly Thr Pro Glu
 225 230 235 240
 Tyr Ser Glu Pro Gly Ser Gly Gly Phe Val Gly Asp Thr Leu Leu Val
 245 250 255
 Asn Gly Ala Gln Ser Pro Tyr Val Glu Val Ser Arg Gly Trp Val Arg
 260 265 270
 Leu Arg Leu Leu Asn Ala Ser Asn Ser Arg Arg Tyr Gln Leu Gln Met
 275 280 285
 Ser Asp Gly Arg Ala Leu His Val Ile Ser Gly Asp Gln Gly Leu Leu
 290 295 300
 Pro Ala Pro Val Ser Val Lys Gln Leu Ala Leu Ala Pro Gly Glu Arg
 305 310 315 320
 Arg Glu Ile Leu Val Asp Met Thr Asn Gly Asp Glu Val Ser Val Thr
 325 330 335
 Cys Gly Glu Ala Ala Ser Ile Val Asp Arg Ile Arg Gly Phe Phe Glu
 340 345 350
 Pro Ser Ser Val Leu Val Ser Thr Leu Val Leu Thr Leu Arg Pro Thr
 355 360 365
 Gly Leu Leu Pro Leu Val Thr Asp Ser Leu Pro Met Arg Leu Leu Pro
 370 375 380
 Gln Glu Ile Val Thr Gly Pro Ala Val Arg Ser Arg Asp Ile Ser Leu
 385 390 395 400
 Gly Asp Asp Pro Gly Ile Asn Gly Ala Leu Trp Asp Val Asn Arg Ile
 405 410 415
 Asp Ile Thr Ala Gln Gln Gly Thr Trp Glu Arg Trp Thr Val Arg Ser
 420 425 430
 Glu Met Pro Gln Ser Phe His Ile Glu Gly Val Ser Phe Leu Ile Arg
 435 440 445
 Asn Val Asn Gly Ala Met Pro Phe Pro Glu Asp Arg Gly Trp Lys Asp
 450 455 460
 Thr Val Trp Val Asp Gly Gln Val Glu Leu Leu Val Tyr Tyr Gly Gln
 465 470 475 480
 Pro Ser Trp Pro His Phe Pro Phe Leu Phe His Ser Gln Thr Leu Glu
 485 490 495
 Met Met Asp Arg Gly Ser Val Gly Gln Met Leu Val Asn Pro Ala Pro
 500 505 510

<210> 8548

<211> 206

<212> PRT

<213> *Enterobacter cloacae*

<400> 8548

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Ser Gly Gly Arg Gln Arg Gln His Gly Ala His Arg Asp Arg Thr Ala
1          5          10
Asp Val Ala Ala Arg Phe Gln Asn Met Pro Arg Val Asp Ala Val
20          25          30
Ser Val Met Gly Arg Arg Arg Asp Glu Phe Gly Ala Val Gln His Gly
35          40          45
Thr Ala Ala His Arg Gln Gln Glu Gly Asp Leu Leu Ala Gly Asp
50          55          60
Phe Tyr Arg Val His Gln Arg Phe Ile Arg Arg Val Arg Leu Asp Thr
65          70          75
Ala Glu Leu Ala His Val Gln Thr Phe Gln Ser Ala Val His Leu Ile
85          90          95
Gln Tyr Ala Gly Phe Phe His Ala Ala Ala Val Gly Asn Gln Asp
100         105         110
Ala Gly Val Arg Arg Asp Leu Arg Ala Gln Val Ser Asp Ser Val Phe
115         120         125
Thr Lys Gln Asn Ala Gly Trp Gly Met Lys Ile Lys Val Val His Gly
130         135         140
Leu Phe Pro Val Val Gly Lys Lys Ser Trp Trp Arg Arg Arg Gln Pro
145         150         155
Asp Ala Ala His Cys Gly Gly Gln Ala Leu Ser Ser Gln Cys Thr Phe
165         170         175
Leu Pro Met Ser Cys Pro Phe Leu Gln Arg Ala Gly Glu Thr Val Arg
180         185         190
Lys Cys Ala His Cys Gln Arg Arg Lys Pro Tyr Pro Glu
195         200         205

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<210> 8549

<211> 302

<212> PRT

<213> *Enterobacter cloacae*

<400> 8549

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Leu Lys Met Asn Arg Asp Ala Ile Cys Arg Gln Leu Thr Ser Gln Ile
1          5          10
Lys Thr Leu Ile Asp Asn Gly Asn Asp Ser Ala Glu Leu Leu Pro Asp
20          25          30
Ile Arg Leu Leu Tyr Gly Thr Gln Pro Gly Thr Arg Thr Pro Val Met
35          40          45
Tyr Gln Pro Gly Ile Val Phe Leu Phe Ser Gly His Lys Ile Gly Tyr
50          55          60
Ile Asn Glu Arg Val Phe Arg Tyr Asp Thr Asn Glu Tyr Leu Leu Leu
65          70          75
Thr Val Pro Leu Pro Phe Glu Cys Glu Thr Phe Ala Thr Glu Glu Val
85          90          95
Pro Leu Ala Gly Ile Arg Val Asn Val Asp Ile Leu Gln Leu Gln Glu
100         105         110
Leu Leu Met Asp Ile Gly Glu Asp Glu Leu Phe Arg Pro Ser Met Ala
115         120         125
Ala Ser Gly Ile Asn Ser Ala Thr Leu Ser Glu Glu Ile Leu Cys Ala
130         135         140
Ile Glu Arg Leu Leu Asp Val Met Glu Arg Pro Leu Asp Ala Arg Ile
145         150         155
Leu Gly Lys Gln Ile Ile Arg Glu Ile Leu Tyr His Val Leu Leu Gly
165         170         175
Pro Gly Gly Gly Ala Leu Leu Ala Leu Val Ser Arg Gln Thr His Phe
180         185         190

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Ser Leu Ile Ser Arg Val Leu Lys Arg Ile Glu Ser Gln Tyr Thr Glu
 195 200 205
 Asn Leu Ser Val Asp Gln Leu Ala Ala Glu Ala Asn Met Ser Val Ser
 210 215 220
 Ala Phe His His Asn Phe Lys Ser Val Thr Ser Thr Ser Pro Leu Gln
 225 230 235 240
 Tyr Leu Lys Thr Tyr Arg Leu His Lys Ala Arg Met Leu Met Ile His
 245 250 255
 Asp Gly Met Lys Ala Ser Ala Ala Ala Met Arg Val Gly Tyr Glu Ser
 260 265 270
 Ala Ser Gln Phe Ser Arg Glu Phe Lys Arg Tyr Phe Gly Val Thr Pro
 275 280 285
 Gly Glu Asp Ala Ser Arg Ile Arg Thr Met Gln Gly Ala
 290 295 300

<210> 8550

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 8550

Ala Ala Leu Arg Gln Leu Tyr Ala Gly Tyr His Arg Thr Gly Leu Ala
 1 5 10 15
 Leu Ala Gly Ala Ala Cys Arg Trp Leu Ala Asp His Arg Ser Leu Pro
 20 25 30
 Ser Gly Arg Gly Thr Ile Pro Pro Gly Tyr Arg Phe Gly Arg Leu Leu
 35 40 45
 Met Ser Thr Leu Leu Tyr Leu His Gly Phe Asn Ser Ser Pro Arg Ser
 50 55 60
 Ala Lys Ala Thr Gln Leu Arg Gln Trp Leu Ser Ala His His Pro His
 65 70 75 80
 Val Glu Met Ile Ile Pro Gln Leu Pro Pro Tyr Pro Ala Asp Ala Ala
 85 90 95
 Glu Met Leu Glu Ser Leu Val Leu Glu His Gly Gly Glu Ser Phe Gly
 100 105 110
 Val Val Gly Ser Ser Leu Gly Gly Tyr Ala Thr Trp Leu Ser Gln
 115 120 125
 Cys Phe Met Leu Pro Ala Val Val Val Asn Pro Ala Val Arg Pro Phe
 130 135 140
 Glu Leu Leu Arg Asp Phe Leu Gly Glu Asn Glu Asn Pro Tyr Thr Gly
 145 150 155 160
 Gln Gln Tyr Val Leu Glu Ser Arg His Ile Tyr Asp Leu Lys Val Met
 165 170 175
 Gln Val Asp Pro Leu Glu Ala Pro Asp Leu Ile Trp Leu Leu Gln Gln
 180 185 190
 Thr Gly Asp Glu Val Leu Asp Tyr Arg Gln Ala Val Ala Tyr Tyr Ala
 195 200 205
 Ser Cys Arg Gln Thr Val Glu Glu Gly Gly Asn His Ala Phe Thr Gly
 210 215 220
 Phe Glu Asp His Phe Thr Gln Ile Val Asp Phe Leu Gly Leu His Ser
 225 230 235 240
 His

<210> 8551

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 8551

Gly Leu Pro Cys Leu Met Asp Cys Glu Thr Thr Leu Lys Gly Glu Ile

Gly Ala Pro Asp Asp Pro Lys Ser Phe Ala Ala Met Arg Tyr Thr Glu
 115 120 125
 Ser Arg Leu Ser Lys Tyr Ala Glu Val Leu Leu Gly Glu Leu Gly Gln
 130 135 140
 Gly Thr Val Asp Trp Val Pro Asn Phe Asp Gly Thr Met Gln Glu Pro
 145 150 155 160
 Lys Met Leu Pro Ala Arg Leu Pro Asn Ile Leu Leu Asn Gly Thr Thr
 165 170 175
 Gly Ile Ala Val Gly Met Ala Thr Asp Ile Pro Pro His Asn Leu Arg
 180 185 190
 Glu Val Ala Lys Ala Ala Ile Thr Leu Ile Glu Gln Pro Lys Thr Ser
 195 200 205
 Leu Asp Asp Leu Leu Asp Ile Val Gln Gly Pro Asp Tyr Pro Thr Glu
 210 215 220
 Ala Glu Ile Ile Thr Ser Arg Ala Glu Ile Arg Lys Ile Tyr Gln Asn
 225 230 235 240
 Gly Arg Gly Ser Val Arg Met Arg Ala Val Trp Asn Lys Glu Asp Gly
 245 250 255
 Ala Val Val Ile Thr Ala Leu Pro His Gln Val Ser Gly Ala Lys Val
 260 265 270
 Leu Glu Gln Ile Ala Ser Gln Met Arg Asn Lys Lys Leu Pro Met Val
 275 280 285
 Asp Asp Leu Arg Asp Glu Ser Asp His Glu Asn Pro Thr Arg Leu Val
 290 295 300
 Ile Val Pro Arg Ser Asn Arg Val Asp Met Glu Gln Val Met Asn His
 305 310 315 320
 Leu Phe Ala Thr Thr Asp Leu Glu Lys Ser Tyr Arg Ile Asn Leu Asn
 325 330 335
 Met Ile Gly Leu Asp Gly Arg Pro Ala Val Lys Asn Leu Leu Glu Ile
 340 345 350
 Leu Thr Glu Trp Leu Ala Phe Arg Arg Asp Thr Val Arg Arg Arg Leu
 355 360 365
 Asn His Arg Leu Glu Lys Val Leu Lys Arg Leu His Ile Leu Glu Gly
 370 375 380
 Leu Leu Val Ala Phe Leu Asn Ile Asp Glu Val Ile Glu Ile Ile Arg
 385 390 395 400
 Thr Glu Asp Glu Pro Lys Pro Ala Leu Met Ser Arg Phe Gly Ile Ser
 405 410 415
 Glu Thr Gln Ala Glu Ala Ile Leu Glu Leu Lys Leu Arg His Leu Ala
 420 425 430
 Arg Leu Glu Glu Met Lys Ile Arg Gly Glu Gln Asn Glu Leu Glu Lys
 435 440 445
 Glu Arg Asp Gln Leu Gln Ala Ile Leu Ala Ser Glu Arg Lys Met Asn
 450 455 460
 Thr Leu Leu Lys Lys Glu Leu Gln Ala Asp Ala Asp Ala Phe Gly Asp
 465 470 475 480
 Asp Arg Arg Ser Pro Leu His Glu Arg Glu Glu Ala Lys Ala Met Asn
 485 490 495
 Glu His Asp Met Leu Pro Ser Glu Pro Val Thr Ile Val Leu Ser Gln
 500 505 510
 Ser Gly Trp Val Arg Ser Ala Lys Gly His Asp Ile Asp Ala Pro Gly
 515 520 525
 Leu Ser Tyr Lys Ser Gly Asp Ser Phe Lys Ala Ala Val Lys Gly Lys
 530 535 540
 Ser Asn Gln Pro Val Ala Phe Ile Asp Ser Thr Gly Arg Ser Tyr Ala
 545 550 555 560
 Ile Asp Pro Ile Thr Leu Pro Ser Ala Arg Gly Gln Gly Glu Pro Leu
 565 570 575
 Thr Gly Lys Leu Thr Leu Pro Pro Gly Ala Thr Val Glu His Met Leu
 580 585 590
 Met Glu Ala Asp Asp Gln Lys Leu Leu Met Ala Ser Asp Ala Gly Tyr

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<210> 8552
<211> 755
<212> PRT
<213> Enterobacter cloacae
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A	Gly	Gln	Gln	Pro		Ala	Gln	Tyr	Pro	Phe	Ile	Ser	Pro	Gly	Lys	Pro	Ala
1					5						10				15		
Tyr	Asn	Pro	Ala	Pro	Phe	Val	Tyr	Phe	Phe	Phe	Gly	Ser	Ile	Met	Ser		
				20				25						30			
Ala	Ile	Ser	Leu	Ile	Gln	Pro	Arg	Arg	Asp	Leu	Phe	Ser	Trp	Pro	Gln		
		35					40					45					
Tyr	Trp	Ala	Ala	Cys	Phe	Gly	Pro	Ala	Pro	Phe	Leu	Pro	Met	Ser	Arg		
	50					55				60							
Glu	Glu	Met	Asp	Gln	Leu	Gly	Trp	Asp	Ser	Cys	Asp	Ile	Ile	Leu	Val	80	
65					70					75							
Thr	Gly	Asp	Ala	Tyr	Val	Asp	His	Pro	Ser	Phe	Gly	Met	Ala	Ile	Cys		
				85					90					95			
Gly	Arg	Met	Leu	Glu	Ala	Gln	Gly	Phe	Arg	Val	Gly	Ile	Ile	Ser	Gln		
				100				105					110				
Pro	Asp	Trp	Asn	Ser	Lys	Asp	Asp	Phe	Met	Arg	Leu	Gly	Lys	Pro	Asn		
		115					120					125					
Leu	Phe	Gly	Val	Thr	Ala	Gly	Asn	Met	Asp	Ser	Met	Ile	Asn	Arg			
130					135				140								
Tyr	Thr	Ala	Asp	Arg	Lys	Leu	Arg	His	Asp	Asp	Ala	Tyr	Thr	Ala	Asp		
145					150				155						160		
Asn	Val	Ala	Gly	Lys	Arg	Pro	Asp	Arg	Ala	Thr	Leu	Val	Tyr	Thr	Gln		
				165					170						175		
Arg	Cys	Lys	Glu	Ala	Trp	Lys	Asp	Val	Pro	Val	Ile	Leu	Gly	Gly	Ile		
			180					185					190				
Glu	Ala	Ser	Leu	Arg	Arg	Thr	Ala	His	Tyr	Asp	Tyr	Trp	Ser	Asp	Thr		
		195				200						205					
Val	Arg	Arg	Ser	Val	Leu	Val	Asp	Ser	Lys	Ala	Asp	Met	Leu	Ile	Phe		
210						215				220							
Gly	Asn	Gly	Glu	Arg	Pro	Leu	Val	Glu	Val	Ala	His	Arg	Leu	Ala	Gln		
225					230					235					240		
Gly	Glu	Ala	Val	Ser	Glu	Ile	Arg	Asp	Val	Arg	Asn	Thr	Ala	Ile	Met		
				245					250						255		
Val	Lys	Glu	Ala	Leu	Pro	Gly	Trp	Ser	Gly	Val	Asp	Ser	Arg	Ile	Ile		
			260					265					270				
Asp	Met	Pro	Gly	Lys	Ile	Asp	Pro	Ile	Pro	His	Pro	Tyr	Glv	Asp	Asp		

275	280	285
Leu Pro Cys Ala Asp Asn Lys	Pro Val Glu Pro Lys	Lys Ala Glu Ala
290	295	300
Lys Ala Val Val Val Gln Pro	Pro Arg Pro Lys Pro	Trp Glu Lys Thr
305	310	315
Tyr Val Leu Leu Pro Ser Tyr	Glu Lys Val Lys Ser	Asp Lys Val Leu
325	330	335
Tyr Ala His Ala Ser Arg Ile	Leu His His Glu Thr	Asn Pro Gly Cys
340	345	350
Ala Arg Ala Leu Met Gln Lys	His Gly Glu Arg Tyr	Ile Trp Val Asn
355	360	365
Pro Pro Ala Ile Pro Leu Ser	Thr Glu Glu Met Asp	Ser Val Phe Ala
370	375	380
Leu Pro Tyr Lys Arg Val Pro	His Pro Ser Tyr Gly	Ser Ser Arg Ile
385	390	395
Pro Ala Tyr Glu Met Ile Arg	Phe Ser Ile Asn Ile	Met Arg Gly Cys
405	410	415
Phe Gly Gly Cys Ser Phe Cys	Ser Ile Thr Glu His	Glu Gly Arg Ile
420	425	430
Ile Gln Ser Arg Ser Glu Glu	Ser Ile Val Asn Glu	Ile Glu Ala Ile
435	440	445
Arg Asp Thr Val Pro Gly Phe	Thr Gly Val Ile Ser	Asp Leu Gly Gly
450	455	460
Pro Thr Ala Asn Met Tyr Met	Leu Arg Cys Lys Ser	Pro Arg Ala Glu
465	470	475
Gln Thr Cys Arg Arg Leu Ser	Cys Val Tyr Pro Ser	Ile Cys Glu His
485	490	495
Met Asp Thr Asn His Glu Pro	Thr Ile Asn Leu Tyr	Arg Arg Ala Arg
500	505	510
Asp Leu Lys Gly Ile Lys Lys	Ile Leu Ile Ala Ser	Gly Val Arg Tyr
515	520	525
Asp Ile Ala Val Glu Asp Pro	Arg Tyr Ile Lys Glu	Leu Ala Thr His
530	535	540
His Val Gly Gly Tyr Leu Lys	Ile Ala Pro Glu His	Thr Glu Glu Gly
545	550	555
Pro Leu Ser Lys Met Met Lys	Pro Gly Met Gly Ser	Tyr Asp Arg Phe
565	570	575
Lys Gln Leu Phe Asp Thr Tyr	Ser Lys Gln Ala Gly	Lys Glu Gln Tyr
580	585	590
Leu Ile Pro Tyr Phe Ile Ser	Ala His Pro Gly Thr	Arg Asp Glu Asp
595	600	605
Met Val Asn Leu Ala Leu Trp	Leu Lys Gln Arg Arg	Phe Arg Leu Asp
610	615	620
Gln Val Gln Asn Phe Tyr Pro	Ser Pro Leu Ala Asn	Ser Thr Thr Met
625	630	635
Tyr Tyr Thr Gly Lys Asn Pro	Leu Ser Lys Ile Gly	Tyr Lys Ser Glu
645	650	655
Asp Val Val Val Pro Lys Gly	Asp Lys Gln Arg Arg	Leu His Lys Ala
660	665	670
Leu Leu Arg Tyr His Asp Pro	Lys Asn Trp Pro Leu	Ile Arg Gln Ala
675	680	685
Leu Glu Glu Met Gly Lys Lys	His Leu Ile Gly Ser	Arg Arg Asp Cys
690	695	700
Leu Val Pro Ala Pro Thr Leu	Glu Glu Met Arg Glu	Ala Arg Arg Gln
705	710	715
Asn Arg Asn Thr Arg Pro Ala	Leu Thr Lys His Thr	Pro Ile Ala His
725	730	735
Gln Arg Ser Asn Gly Val Ala	Gly Thr Lys Lys Asn	Val Lys Arg Lys
740	745	750
Thr Gly		

<210> 8553
 <211> 251
 <212> PRT
 <213> Enterobacter cloacae

<400> 8553
 Phe Ala Ser Trp Arg Tyr Arg Val Gly Asn Asn Leu Met Gln Thr Asp
 1 5 10 15
 Leu Ser Val Trp Gly Met Tyr Gln His Ala Asp Ile Val Val Lys Ile
 20 25 30
 Val Met Ile Gly Leu Ile Leu Ala Ser Val Ile Thr Trp Ala Ile Phe
 35 40 45
 Phe Ser Lys Ser Ala Glu Leu Leu Ser Gln Lys Arg Arg Leu Lys Arg
 50 55 60
 Glu Gln Lys Gln Leu Ala Glu Ala Arg Ser Leu Asp Gln Ala Ser Asp
 65 70 75 80
 Ile Thr Ser Ser Phe His Ala Lys Ser Leu Thr Thr Leu Leu Val Asn
 85 90 95
 Glu Ala Gln Asn Glu Leu Glu Leu Ser Ala Gly Ser Glu Asp Asn Glu
 100 105 110
 Gly Ile Lys Glu Arg Thr Gly Phe Arg Leu Glu Arg Val Ala Ala
 115 120 125
 Val Gly Arg His Met Gly Arg Gly Asn Gly Tyr Leu Ala Thr Ile Gly
 130 135 140
 Ala Ile Ser Pro Phe Val Gly Leu Phe Gly Thr Val Trp Gly Ile Met
 145 150 155 160
 Asn Ser Phe Ile Gly Ile Ala Gln Thr Gln Thr Thr Asn Leu Ala Val
 165 170 175
 Val Ala Pro Gly Ile Ala Glu Thr Leu Leu Ala Thr Ala Ile Gly Leu
 180 185 190
 Val Ala Ala Ile Pro Ala Val Val Ile Tyr Asn Ile Phe Ala Arg Met
 195 200 205
 Ile Gly Ser Tyr Lys Ala Thr Leu Gly Asp Val Ala Ala Gln Val Leu
 210 215 220
 Leu Leu Gln Ser Arg Asp Leu Asp Leu Asn Ala Ser Ala Val Lys Pro
 225 230 235 240
 Val His Ala Ala Ser Lys Leu Arg Val Gly
 245 250

<210> 8554
 <211> 449
 <212> PRT
 <213> Enterobacter cloacae

<400> 8554
 Cys Arg Asn Phe Arg Ser Leu Ser Leu Arg Leu Arg Ser Lys Asn Phe
 1 5 10 15
 Leu Cys Glu Phe Leu Ile Ile Phe Ser Ala Tyr Ser Ile Ser Ile Arg
 20 25 30
 Met His Ile Leu Thr Ile Val Val Val Trp Thr Ser Arg Arg Ile Lys
 35 40 45
 Ile Gly Leu Ala Asn Met Thr Lys Lys Gln Leu Glu Thr Thr Leu Val
 50 55 60
 Gln Ala Gly Arg Ser Lys Lys Tyr Thr Gln Gly Ser Val Asn Ser Val
 65 70 75 80
 Ile Gln Arg Ala Ser Ser Leu Val Phe Asp Thr Val Glu Asp Lys Lys
 85 90 95
 Ile Ala Thr Arg Asn Arg Ala Lys Gly Gly Leu Phe Tyr Gly Arg Arg
 100 105 110
 Gly Thr Leu Thr His Phe Ser Leu Gln Glu Ala Met Cys Glu Leu Glu

4A00> 8555																			
Pro	Val	Thr	Ser	Ile	Phe	Arg	Thr	Phe	Leu	Gly	Gln	Gln	His	Val	His				
1			5					10					15						
His	Gly	Val	Ser	Leu	Leu	Phe	Ile	Phe	Ile	Ala	Asp	Gly	Gln	Leu	His				
			20					25					30						
Gln	Thr	Ala	Gly	Ile	Arg	Ile	Gln	Arg	Gly	Phe	Thr	Gln	Leu	His	Arg				
			35				40					45							
Val	His	Leu	Thr	Gln	Pro	Leu	Lys	Ala	Leu	Asn	Val	Arg	Phe	Ala	Leu				
			50			55				60									
Leu	Ala	Leu	Lys	Leu	Phe	Gln	His	Ala	Arg	Phe	Leu	Phe	Phe	Arg	Gln				
65					70					75				80					
Cys	Ile	Val	Asn	Phe	Phe	Ala	Glu	Val	Asp	Ser	Val	Gln	Arg	Arg	Gln				

85 90 95
 Arg His Val Asp Val Thr Val Phe His Gln Arg Ala Glu Met Leu His
 100 105 110
 Lys Gln Arg Thr Glu Gln Arg Gly Asp Val Gln Ala Ile Gly Val Arg
 115 120 125
 Ile Arg Glu Asn Ala Asp Leu Ala Val Ala Gln Leu Ala Gln Ile Val
 130 135 140
 Ala Val Arg Ile Asp Thr Asp Arg Asn Arg Asp Val Val Tyr Phe Leu
 145 150 155 160
 Arg Gly Gln His Phe Ile Arg Arg Asp Leu Pro Gly Val Glu Asp Leu
 165 170 175
 Thr Leu Glu Arg His Asp Arg Leu Ile Phe Thr Ile Pro Arg Leu Leu
 180 185 190
 Gly Arg Ser Ala Cys Arg Val Ser Phe His Gln Glu Gln Leu Gly Ala
 195 200 205
 Val Glu Ile Leu Arg Gly Thr Val Arg Gln Leu Ala Arg Gln Arg Gly
 210 215 220
 Ala Ala Gly Gln Leu Phe Thr His His Phe Leu Arg Arg Ala Gln Thr
 225 230 235 240
 Thr Leu Gly Thr Gly Asp Arg His Phe Ser Gln His Phe Arg Gly Leu
 245 250 255
 Asn Val Leu Val Gln Pro Gln Gly Lys Gly Ile Phe His His Ala Gly
 260 265 270
 Asp Glu Arg Arg Thr Leu Ala
 275 280

<210> 8556
 <211> 126
 <212> PRT
 <213> Enterobacter cloacae

<400> 8556
 Gln Gly Val Asn His Gly Asp Pro His Ala Val Gln Ala Ala Gly Glu
 1 5 10 15
 Leu Val Val Phe Val Gly Glu Leu Thr Ala Arg Val Gln Thr Thr Glu
 20 25 30
 Asp Gln Leu Asn Gly Gly Asn Thr Leu Phe Arg Val Asp Ile Tyr Arg
 35 40 45
 His Ala Ala Ala Val Val Asp Asp Phe Gln Arg Leu Ile Gly Val Gln
 50 55 60
 Asp Asn Val His Ala Phe Gly Met Ala Cys Gln Arg Phe Val His Thr
 65 70 75 80
 Val Ile Asn Tyr Phe Leu Ala Gln Val Val Trp Ala Arg Arg Ile Gly
 85 90 95
 Val His Pro Arg Ala Ala Ala Asn Arg Leu Lys Pro Gly Glu Tyr Leu
 100 105 110
 Asn Gly Ile Ser Val Ile Gly Leu Arg His Asp Leu Ser
 115 120 125

<210> 8557
 <211> 223
 <212> PRT
 <213> Enterobacter cloacae

<400> 8557
 Ile Gly Phe Ser Gly Arg Gly Cys Gly Trp Leu Glu Asp Ala Gly Arg
 1 5 10 15
 Phe Thr Phe Thr Ser Thr Val Ala Ser Gly Ala Ala Thr Ile Lys Ile
 20 25 30
 Ile Ser Arg Thr Ser Met Thr Ser Ile Asn Gly Val Thr Leu Ile Ser
 35 40 45

Cys Ile Ser Pro Leu Ser Ser Arg Phe Ser Leu Arg Arg Ile Ala Ile
 50 55 60
 Gln Ser Thr Tyr Ala Gln Phe Gly Arg Arg Met Asn Arg Phe Asn Gly
 65 70 75 80
 Ala Gly Val Gln Val Gln Ile Ala Ala Leu Gln Gln Gln Asn Leu Arg
 85 90 95
 Gly Asn Val Thr Gln Cys Gly Phe Val Thr Ala Asn His Ala Arg Glu
 100 105 110
 Asp Val Ile Asp Asn Asn Arg Arg Asp Ser Gly Asn Gln Thr Asp Ser
 115 120 125
 Arg Cys Gln Gln Arg Phe Cys Asp Thr Arg Arg Asp Arg Lys Val
 130 135 140
 Ser Gly Leu Arg Leu Gly Asp Thr Asp Lys Ala Val His Asp Ala Pro
 145 150 155 160
 Asp Gly Thr Glu Gln Ala Asp Glu Arg Gly Asp Ser Ala Asp Ser Arg
 165 170 175
 Gln Val Ala Val Thr Ala Ala His Met Thr Thr His Gly Arg Asn Ala
 180 185 190
 Thr Leu Gln Thr Glu Ala Gly Thr Leu Phe Asn Ala Phe Val Ile Phe
 195 200 205
 Thr Ala Cys Gly Glu Phe Gln Leu Val Leu Arg Phe Val His
 210 215 220

<210> 8558

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 8558

Arg Tyr Ile Cys Cys Ser Thr Gly Lys Ser Met Ala Val Ile Gln Asn
 1 5 10 15
 Ile Ile Thr Ala Leu Trp Gln His Asp Phe Ala Ala Leu Ala Asp Pro
 20 25 30
 His Val Val Gly Ile Val Tyr Phe Val Met Phe Ala Thr Leu Phe Leu
 35 40 45
 Glu Asn Gly Leu Leu Pro Ala Ser Phe Leu Pro Gly Asp Ser Leu Leu
 50 55 60
 Leu Leu Ala Gly Ala Leu Ile Gly Lys Gly Val Met Asp Phe Ala Pro
 65 70 75 80
 Thr Met Val Ile Leu Thr Ser Ala Ala Ser Leu Gly Cys Trp Leu Ser
 85 90 95
 Tyr Leu Gln Gly Arg Trp Leu Gly Asn Thr Arg Val Val Lys Gly Trp
 100 105 110
 Leu Ala Gln Leu Pro His Lys Tyr His Gln Arg Ala Thr Cys Met Phe
 115 120 125
 Asp Arg His Gly Leu Leu Ala Leu Leu Ala Gly Arg Phe Leu Ala Phe
 130 135 140
 Val Arg Thr Leu Leu Pro Thr Met Ala Gly Ile Ser Gly Leu Ser Asn
 145 150 155 160
 Arg Arg Phe Gln Phe Phe Asn Trp Leu Ser Ala Leu Leu Trp Val Gly
 165 170 175
 Val Val Thr Thr Leu Gly Tyr Ala Leu Asn Met Ile Pro Phe Val Lys
 180 185 190
 Arg His Glu Asp Gln Val Met Thr Phe Leu Met Val Leu Pro Ile Phe
 195 200 205
 Leu Leu Val Ala Gly Leu Val Gly Thr Ile Ala Val Val Ile Lys Lys
 210 215 220
 Lys Tyr Cys Ser Ala
 225 230

<210> 8559

<211> 451

<212> PRT

<213> *Enterobacter cloacae*

<400> 8559

```

Arg Met Lys Leu Thr Gln Arg Leu Ser Leu Lys Leu Arg Leu Thr Leu
1      5      10      15
Leu Phe Leu Leu Leu Ser Leu Ala Ala Trp Phe Ala Ala Ser Val Val
20      25      30
Ala Trp His Gln Thr Thr Asp Lys Leu Asp Lys Leu Phe Asp Thr Gln
35      40      45
Gln Met Leu Phe Ala Lys Arg Leu Leu Thr Met Asp Val Asp Glu Leu
50      55      60
Arg Ala Pro Glu Arg Met Arg Glu Val Pro Lys Lys Ala Lys His Gly
65      70      75      80
His Leu Asp Asp Asp Ala Leu Ala Phe Ala Ile Phe Thr Ala Asp Gly
85      90      95
Ser Met Val Leu Asn Asp Gly Glu Asn Gly Arg Asp Ile Pro Tyr Leu
100     105     110
Tyr Arg Arg Asp Gly Phe Asp Asp Gly Arg Leu Gln Asp Asp Asn Asp
115     120     125
Glu Trp Arg Phe Leu Trp Leu Thr Ser Pro Asp Gly Lys Tyr Arg Val
130     135     140
Val Val Gly Gln Glu Trp Glu Tyr Arg Gln Asp Met Ala Leu Asp Val
145     150     155     160
Val Ser Ser Gln Leu Thr Pro Trp Leu Val Ala Leu Pro Ile Met Leu
165     170     175
Leu Leu Leu Ile Val Leu Leu Ser Arg Glu Leu Lys Pro Leu Lys Lys
180     185     190
Leu Ala Gln Thr Leu Arg Ser Arg Ser Pro Asp Ala Thr Asp Thr Leu
195     200     205
Pro Thr His Gly Val Pro Thr Glu Val Arg Pro Leu Leu Asp Ala Leu
210     215     220
Asn His Leu Phe Ala Arg Thr Gln Glu Met Met Ala Arg Glu Arg Arg
225     230     235     240
Phe Thr Ser Asp Ala Ala His Glu Leu Arg Ser Pro Leu Ala Ala Leu
245     250     255
Lys Val Gln Thr Asp Val Ala Gln Leu Ser Leu Asp Asp Pro Gly Ala
260     265     270
Gln Ser Lys Ala Leu Gly Gln Leu His Ala Gly Ile Asp Arg Ala Ser
275     280     285
Arg Leu Val Asp Gln Leu Leu Thr Leu Ser Arg Leu Asp Ser Leu Asp
290     295     300
Asn Leu Asp Asp Val Glu Pro Val Met Met Ala Asp Leu Leu Gln Ser
305     310     315     320
Ala Val Leu Asp Ile Trp His Pro Ala Gln Gln Ala Gly Ile Asp Val
325     330     335
Arg Leu Asn Val Asn Ala Pro Glu Val Met Arg His Gly Gln Pro Leu
340     345     350
Leu Leu Ser Leu Leu Ala Arg Asn Leu Leu Asp Asn Ala Val Arg Tyr
355     360     365
Ser Pro Arg Gly Ser Val Val Asp Val Thr Leu Asn Thr Gln Ser Phe
370     375     380
Thr Val Arg Asp Asn Gly Pro Gly Ile Ser Thr Asp Ala Leu Thr Arg
385     390     395     400
Leu Gly Glu Arg Phe Tyr Arg Pro Pro Gly Gln Asp Ala Thr Gly Ser
405     410     415
Gly Leu Gly Leu Ser Ile Val Lys Arg Ile Ala Ala Leu His Gly Met
420     425     430
His Val Ser Leu Gly Asn Ala Pro Glu Gly Gly Phe Ala Val Thr Val
435     440     445

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Ser Trp
450

<210> 8560

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 8560

```

Gln Lys Asp Gly Met Gly Leu Phe Asn Phe Val Lys Glu Ala Gly Glu
1      5      10      15
Lys Leu Trp Asp Asn Leu Thr Asp His Lys Gly Gln Ser Asp Lys Ile
      20      25      30
Thr Glu His Leu Lys Lys Leu Asn Ile Pro Gly Ser Asp Lys Val Gln
      35      40      45
Val Asn Val Thr Asp Gly Lys Ala Ser Val Thr Gly Asp Gly Leu Thr
      50      55      60
Gln Glu Gln Lys Glu Lys Ile Gln Val Ala Val Gly Asn Ile Ala Gly
65      70      75      80
Val Ser Glu Val Glu Asn Asn Ile Thr Ala Thr Asp Ala Lys Asp Glu
      85      90      95
Ala Thr Tyr Tyr Thr Val Lys Ser Gly Asp Thr Leu Ser Ala Ile Ser
      100      105      110
Lys Thr Val Tyr Gly Asp Ala Asn Gln Tyr Asn Lys Ile Phe Glu Ala
      115      120      125
Asn Arg Pro Met Leu Ser Ser Pro Asp Lys Ile Tyr Pro Gly Gln Thr
      130      135      140
Leu Arg Ile Pro Lys Ala
145      150

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<210> 8561

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 8561

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Glu Asn Leu Lys Arg Trp Phe Ile Lys Thr Ile Arg Gln Glu Lys Val
1      5      10      15
Glu Phe Tyr Cys Thr Met Arg Asp Thr Pro Thr Thr Asp Leu Leu Glu
      20      25      30
Leu Ile Ala Leu Asn Asp Thr Val Ala Ser Phe Ser Arg Leu Phe Ala
      35      40      45
Asn Thr Val Arg Tyr His His Trp His Gln Cys Leu Glu Ile Leu Tyr
      50      55      60
Val Glu Glu Gly Phe Gly Val Ala Ile Val Asp Asn Arg His Tyr Thr
65      70      75      80
Met Arg Pro Gly Arg Leu Phe Phe Phe Pro Pro Phe Thr Leu His Lys
      85      90      95
Val Met Val Asp Glu Gln Ala Glu Ala Ile Tyr Arg Arg Thr Ile Ile
      100      105      110
His Leu Asp Gln His Ala Val Leu Lys Ile Leu Arg Asp Phe Pro Gln
      115      120      125
Thr Arg Gln Arg Leu Glu Arg Leu Ser Arg Arg Gly Gly Glu Ala Trp
      130      135      140
Val Ala Asp Leu Ala His Cys His His His Ile Asp His Leu Phe Ser
145      150      155      160
Cys Tyr Lys Pro Pro Met Asn Gly Glu Ser Ile Ala Ser Leu Leu Ile
      165      170      175
Gly Leu Phe Ala Met Leu Pro Asp Asp Arg Asp Gly Glu Pro Gly Asn
      180      185      190
Ser Gln Gly Ile Ala Ser Gln Val Met Ile Trp Leu Asp Glu His Tyr

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      195          200          205
Gln Glu Lys Phe Arg Leu Asp Ala Leu Ala Glu Leu Gly Lys Ser
   210          215          220
Arg Ser Tyr Val Ser Arg Phe His Ala Glu Thr Gly Glu Lys Ile
225          230          235
His Asp Tyr Leu Asn Thr Leu Arg Leu Arg Lys Ala Cys Glu Cys Leu
      245          250          255
Leu His Thr Asp Ser Ser Val Arg Asp Ile Ala Ala Gln Ala Gly Phe
   260          265          270
Ser Asp Val Thr Trp Phe Ile Ser Ala Phe Lys Lys Gly Ile Gly Glu
   275          280          285
Thr Pro Leu Gln Tyr Arg Lys Asn His Ser Ser
   290          295          300

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<210> 8562

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 8562

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Arg Leu Pro Ala Thr Met Ser Ser Ile Arg Leu Pro Ser Ala Pro Pro
1          5          10          15
Arg Phe Phe Thr His Tyr Arg Glu Gln Ala Met Asn Asn Phe Asn Leu
   20          25          30
His Thr Pro Thr Arg Ile Leu Phe Gly Lys Asn Ala Ile Ala Asp Leu
   35          40          45
Arg Ala Gln Ile Pro Thr Asp Ala Arg Val Leu Ile Thr Tyr Gly Gly
   50          55          60
Gly Ser Val Lys Lys Thr Gly Val Leu Asp Gln Val Tyr Ser Ala Leu
65          70          75          80
Glu Gly Leu Asp Val Arg Glu Phe Gly Gly Ile Glu Pro Asn Pro Ser
   85          90          95
Tyr Glu Thr Leu Met Asn Ala Val Lys Ile Ala Arg Glu Glu Gln Ile
   100          105          110
Thr Phe Leu Leu Ala Val Gly Gly Gly Ser Val Leu Asp Gly Thr Lys
   115          120          125
Phe Ile Ala Ala Ala Ala His Tyr Ala Asp Gly Ile Asp Pro Trp His
   130          135          140
Ile Leu Glu Thr Gly Gly Ser Asp Ile Ser Ser Ala Ile Pro Met Gly
145          150          155          160
Ser Val Leu Thr Leu Pro Ala Thr Gly Ser Glu Ser Asn Lys Gly Ala
   165          170          175
Val Ile Ser Arg Lys Thr Thr Gly Asp Lys Gln Ala Phe Met Asn Glu
   180          185          190
His Val Gln Pro Val Phe Ala Ile Leu Asp Pro Val Tyr Thr Tyr Thr
   195          200          205
Leu Pro Ala Arg Gln Val Ala Asn Gly Val Val Asp Ala Phe Val His
   210          215          220
Thr Val Glu Gln Tyr Val Thr Tyr Pro Val Asn Ala Lys Ile Gln Asp
225          230          235          240
Arg Phe Ala Glu Gly Ile Leu Leu Thr Leu Ile Glu Glu Gly Pro Lys
   245          250          255
Ala Leu Lys Glu Pro Asp Asn Tyr Asp Val Arg Ala Asn Val Met Trp
   260          265          270
Ala Ala Thr Gln Ala Leu Asn Gly Leu Ile Gly Ala Gly Val Pro Gln
   275          280          285
Asp Trp Ala Thr His Met Leu Gly His Glu Leu Thr Ala Met His Gly
   290          295          300
Leu Asp His Ala Gln Thr Leu Ala Val Val Leu Pro Ala Leu Trp Asn
305          310          315          320
Glu Lys Arg Asp Ala Lys Arg Ala Lys Leu Leu Gln Tyr Ala Glu Arg

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          325          330          335
Val Trp Asn Ile Thr Asp Gly Ser Asp Asp Ala Arg Ile Asp Ala Ala
          340          345          350
Ile Glu Ala Thr Arg His Phe Phe Glu Ser Leu Gly Val Pro Thr Arg
          355          360          365
Leu Ser Gly Tyr Gly Leu Asp Gly Ser Ser Ile Pro Ala Leu Leu Ala
          370          375          380
Lys Leu Glu Ala His Gly Met Thr Gln Ile Gly Glu His Gly Asp Ile
          385          390          395          400
Thr Leu Asp Val Ser Arg Arg Ile Tyr Glu Ala Ala Arg
          405          410

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<210> 8563

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8563

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Ala Pro Glu Gly Gly Lys Met Ala Asn Gln Thr Val Ile Lys Leu Gln
1          5          10          15
Asp Gly Asn Val Met Pro Gln Leu Gly Leu Gly Val Trp Lys Ala Gly
          20          25          30
Asn Asp Glu Val Val Ser Ala Ile His Lys Ala Leu Glu Val Gly Tyr
          35          40          45
Arg Ser Ile Asp Thr Ala Ala Ala Tyr Lys Asn Glu Asp Gly Val Gly
          50          55          60
Lys Ala Leu Ala Ser Ala Gly Val Pro Arg Asp Glu Leu Phe Ile Thr
          65          70          75          80
Thr Lys Leu Trp Asn Asp Asp Gln Lys Arg Pro Arg Glu Ala Leu Gln
          85          90          95
Glu Ser Leu Glu Lys Leu Gln Leu Asp Phe Val Asp Leu Tyr Leu Met
          100          105          110
His Trp Pro Val Pro Ala Ile Asp His Tyr Val Asp Ala Trp Lys Gly
          115          120          125
Met Ile Glu Leu Gln Lys Glu Gly Leu Ile Lys Ser Ile Gly Val Cys
          130          135          140
Asn Phe Gln Val His His Leu Gln Arg Leu Ile Asp Glu Thr Gly Val
          145          150          155          160
Ala Pro Val Ile Asn Gln Ile Glu Leu His Pro Leu Met Gln Gln Arg
          165          170          175
Gln Leu His Ser Trp Asn Ala Thr His Lys Ile Gln Thr Glu Ser Trp
          180          185          190
Ser Pro Leu Ala Gln Gly Gly Glu Gly Val Phe Asp Gln Lys Ile Ile
          195          200          205
Arg Glu Leu Ala Asp Lys Tyr Gly Lys Thr Pro Ala Gln Ile Val Ile
          210          215          220
Arg Trp His Leu Asp Ser Gly Leu Val Val Ile Pro Lys Ser Val Thr
          225          230          235          240
Pro Ser Arg Ile Ala Glu Asn Phe Asp Val Trp Asp Phe Arg Leu Asp
          245          250          255
Lys Asp Glu Leu Gly Glu Ile Ala Lys Leu Asp Gln Gly Lys Arg Leu
          260          265          270
Gly Pro Asp Pro Asp Gln Phe Gly Gly
          275          280

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<210> 8564

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 8564

Arg His Gln Gly Gly Asn Met Arg Ile Leu Leu Val Glu Asp Asp Lys
 1 5 10 15
 Leu Ile Gly Asp Gly Ile Lys Ala Gly Leu Ser Lys Met Gly Phe Asn
 20 25 30
 Val Asp Trp Phe Thr Asp Gly Lys Thr Gly Gln Ala Ala Leu Tyr Thr
 35 40 45
 Ala Pro Tyr Asp Ala Val Val Leu Asp Leu Thr Leu Pro Glu Ile Asp
 50 55 60
 Gly Leu Glu Ile Leu Arg Ala Trp Arg Glu Ser Gly Lys Ser Glu Pro
 65 70 75 80
 Val Leu Ile Leu Thr Ala Arg Asp Ala Leu Asn Gln Arg Val Glu Gly
 85 90 95
 Leu Arg Leu Gly Ala Asp Asp Tyr Leu Cys Lys Pro Phe Ala Leu Ile
 100 105 110
 Glu Val Ala Ala Arg Leu Glu Ala Leu Val Arg Arg Ser His Gly Gln
 115 120 125
 Ala Arg Ser Glu Leu Arg His Gly Lys Val Thr Leu Asp Pro Ala Ser
 130 135 140
 Leu Val Ala Thr Leu Glu Gly Glu Thr Leu Val Leu Lys Pro Lys Glu
 145 150 155 160
 Phe Ala Leu Leu Glu Leu Leu Met Arg Asn Ala Gly Arg Val Leu Pro
 165 170 175
 Arg Lys Ala Ile Glu Glu Lys Leu Tyr Asn Trp Asp Asp Asp Val Ser
 180 185 190
 Ser Asn Ala Val Glu Val His Val His His Leu Arg Arg Lys Leu Gly
 195 200 205
 Ser Asp Phe Ile Arg Thr Val His Gly Ile Gly Tyr Thr Leu Gly Asp
 210 215 220
 Ala
 225

<210> 8565

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 8565

Pro Ser Ala Gly Lys Ile Ile Ala Leu Ser Ala Lys Asp Phe Ala His
 1 5 10 15
 Phe Ala Tyr Phe Ser Ala Pro Ser Ser Arg Val Glu Tyr Pro Ala Tyr
 20 25 30
 Ser His His Arg Gly Gln Ile Met Ser Asn Ile Leu Ile Ile Asn Gly
 35 40 45
 Ala Lys Glu Phe Ala His Ser Lys Gly Gln Leu Asn Asp Thr Leu Thr
 50 55 60
 Glu Val Ala Asp Gly Phe Leu Arg Asp Ala Gly His Asp Val Lys Val
 65 70 75 80
 Val Arg Ala Asp Ser Asp Tyr Asp Val Lys Ala Glu Val Gln Asn Phe
 85 90 95
 Leu Trp Ala Asp Val Val Ile Trp Gln Met Pro Gly Trp Trp Met Gly
 100 105 110
 Ala Pro Trp Thr Val Lys Lys Tyr Met Asp Asp Val Phe Thr Glu Gly
 115 120 125
 His Gly Ser Leu Tyr Ala Ser Asp Gly Arg Thr Arg Ser Asp Ala Ser
 130 135 140
 Lys Lys Tyr Gly Ser Gly Gly Leu Ile Gln Gly Lys Lys Tyr Met Leu
 145 150 155 160
 Ser Leu Thr Trp Asn Ala Pro Leu Glu Ala Phe Thr Glu Lys Asp Gln
 165 170 175
 Phe Phe Glu Gly Val Gly Val Asp Gly Ala Tyr Leu Pro Phe His Lys
 180 185 190

Ala Asn Gln Phe Leu Gly Met Glu Pro Leu Pro Thr Phe Ile Val Asn
 195 200 205
 Asp Val Ile Lys Met Pro Asp Val Pro Arg Tyr Ile Ala Glu Tyr Arg
 210 215 220
 Lys His Leu Ala Glu Ile Phe Ala
 225 230

<210> 8566

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 8566

Lys Glu Leu Ile Met Leu Thr Val Ile Ala Glu Ile Arg Thr Arg Pro
 1 5 10 15
 Gly Gln His His Arg Gln Ala Val Leu Asp Glu Phe Ala Lys Ile Ile
 20 25 30
 Pro Thr Val Leu Lys Glu Glu Gly Cys His Gly Tyr Ala Pro Met Val
 35 40 45
 Asp Ala Ala Thr Ser Ala Ser Phe Gln Ala Thr Ala Pro Asp Ser Ile
 50 55 60
 Ile Met Val Glu Gln Trp Glu Thr Val Ala His Leu Glu Ala His Leu
 65 70 75 80
 Gln Thr Ala His Met Lys Ala Trp Ser Asp Ala Val Lys Gly Asp Val
 85 90 95
 Leu Glu Thr His Ile Arg Ile Leu Glu Gln Gly Val
 100 105

<210> 8567

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 8567

Pro His Thr Thr Asn Glu Glu His Leu Met Asn Thr Thr Thr Arg
 1 5 10 15
 Ala Val Ser Arg Trp Val Ile Leu Met Leu Ala Leu Gly Ala Gly Phe
 20 25 30
 Ser Val Ala Ser Ile Tyr Tyr Ala Gln Pro Leu Leu Pro Leu Met Gly
 35 40 45
 Ser Asp Leu Asn Leu Ser Ile Glu Gly Met Gly Met Val Pro Thr Leu
 50 55 60
 Thr Gln Ala Gly Tyr Ala Leu Gly Ile Leu Phe Leu Leu Pro Leu Gly
 65 70 75 80
 Asp Arg His Asp Arg Arg Thr Leu Ile Leu Ile Lys Ser Ala Ala Leu
 85 90 95
 Ala Leu Phe Leu Leu Gly Cys Ser Leu Thr Gly Gln Leu His Ser Leu
 100 105 110
 Leu Leu Thr Ser Leu Leu Ile Gly Met Ala Ala Thr Met Ala Gln Asp
 115 120 125
 Ile Val Pro Ala Ala Ala Ile Leu Ala Pro Glu Gly Lys Gln Gly Lys
 130 135 140
 Thr Val Gly Thr Val Met Thr Gly Leu Leu Leu Gly Ile Leu Leu Ser
 145 150 155 160
 Arg Thr Val Ser Gly Val Val Gly Glu Ala Phe Gly Trp Arg Val Met
 165 170 175
 Tyr Gln Leu Ala Ala Ala Ser Ile Ala Phe Val Gly Val Val Met Trp
 180 185 190
 Ala Val Leu Pro Arg Phe Ala Val His Ser Thr Leu Ser Tyr Pro Ala
 195 200 205
 Leu Met Arg Ser Met Glu His Leu Trp Arg Arg Tyr Pro Ala Leu Arg

210 215 220
 Arg Ala Ala Leu Ala Gln Gly Phe Leu Ser Ile Ala Phe Ser Ala Phe
 225 230 235 240
 Trp Ser Thr Leu Ala Val Met Leu Leu Glu Arg Tyr His Leu Gly Ser
 245 250 255
 Ala Val Ala Gly Gly Phe Gly Ile Ala Gly Ala Ala Gly Ala Leu Ala
 260 265 270
 Ala Pro Leu Ala Gly Gly Leu Ala Asp Lys Leu Gly Ala Gly Lys Val
 275 280 285
 Thr Gln Leu Gly Ala Ala Leu Val Thr Leu Ser Phe Ala Leu Met Phe
 290 295 300
 Leu Met Pro Ala Leu Gly Ile His Gly Gln Leu Ile Leu Ile Ala Leu
 305 310 315 320
 Ser Ala Val Gly Phe Asp Leu Gly Leu Gln Ser Ser Leu Val Ala His
 325 330 335
 Gln Asn Leu Val Tyr Ser Leu Glu Pro Gln Ala Arg Gly Arg Leu Asn
 340 345 350
 Ala Leu Leu Phe Thr Val Ile Phe Ile Gly Met Ala Leu Gly Ser Ala
 355 360 365
 Leu Gly Ser Asn Ile Tyr Thr Leu Ala Gly Trp Ser Gly Val Val Ala
 370 375 380
 Leu Ala Thr Leu Cys Gly Ala Ile Ala Leu Ala Ile Arg Val Ile Glu
 385 390 395 400
 Ser Ala Arg Val Leu Ser Ala Gln Ala Glu Ser Val
 405 410

<210> 8568

<211> 238

<212> PRT

<213> Enterobacter cloacae

<400> 8568

Trp Lys Thr Thr Ala Gly Arg Ile Cys Leu Ile Leu Asp Met Val Glu
 1 5 10 15
 Arg Ala Met Arg Thr Phe Lys Arg Gly Leu Ala Ala Thr Leu Leu
 20 25 30
 Leu Ser Pro Leu Val Gln Ala Glu Gly Leu Glu Asp Gln Leu Asn Ala
 35 40 45
 Phe Phe Ala Gln Lys Leu Ala Gly Phe Ser Asp Asp Val Arg Val Thr
 50 55 60
 Val Arg Thr Pro Pro Asn Leu Tyr Pro Ser Cys Glu Ala Pro Ser Phe
 65 70 75 80
 Ser Val Thr Gly Ser Thr Lys Leu Trp Gly Asn Val Asn Val Leu Ala
 85 90 95
 Arg Cys Ala Asn Glu Lys Arg Tyr Leu Gln Val Ala Val Gln Ala Thr
 100 105 110
 Gly Asn Tyr Val Val Ala Ala Val Pro Ile Pro Arg Gly Ser Leu Leu
 115 120 125
 Gln Pro Asp Ser Val Thr Leu Lys Arg Gly Arg Leu Asp Gln Leu Pro
 130 135 140
 Pro Arg Thr Met Leu Asp Ile Asn Gln Ala Gln Glu Ala Val Ser Leu
 145 150 155 160
 Arg Asp Val Ala Pro Gly Gln Ala Ile Gln Leu Ser Met Leu Arg Gln
 165 170 175
 Ala Trp Arg Val Lys Ala Gly Gln Gln Val Met Val Val Ala Asn Gly
 180 185 190
 Glu Gly Phe Ser Ile Asn Ser Glu Gly Lys Ala Leu Asn Asn Ala Ala
 195 200 205
 Val Ala Gln Asn Ala Arg Val Arg Met Ser Ser Gly Gln Val Val Ser
 210 215 220
 Gly Thr Val Gly Pro Asp Gly Asn Ile Leu Ile Asn Leu

225

230

235

<210> 8569

<211> 112

<212> PRT

<213> *Enterobacter cloacae*

<400> 8569

Cys Gln Ala Gln Thr Pro Arg Thr Leu Asp Glu Asp Asn Thr Met Ser
 1 5 10 15
 Ile Asp Arg Thr Ser Ala Leu Lys Pro Val Ser Thr Val Gln Pro Arg
 20 25 30
 Glu Thr Asn Glu Ala Ala Pro Gln Lys Thr Arg Leu Glu Lys Thr Ser
 35 40 45
 Thr Ala Asn Ser Thr Ser Val Thr Leu Ser Asp Ala Gln Ser Lys Leu
 50 55 60
 Met Gln Pro Gly Ser Ser Asp Ile Asn Met Glu Arg Val Glu Ala Leu
 65 70 75 80
 Lys Thr Ala Ile Arg Asn Gly Glu Leu Lys Met Asp Thr Ser Lys Ile
 85 90 95
 Ala Asp Ala Leu Ile Gln Asp Ala Gln Ser Phe Leu Gln Ser Asn
 100 105 110

<210> 8570

<211> 207

<212> PRT

<213> *Enterobacter cloacae*

<400> 8570

Asp His Pro Asp Ile Leu Ala Tyr Gln Asp Arg Cys Ala Asp Phe Met
 1 5 10 15
 Leu Arg Asn Ala Met Lys Lys Ile Val Ile Ala Ala Ala Leu Ile Val
 20 25 30
 Ser Gly Leu Leu Val Gly Cys Asn Gln Leu Thr Gln Tyr Thr Val Ser
 35 40 45
 Glu Gln Glu Ile Asn Gln Ala Leu Glu Lys His Asn Asn Phe Ser Lys
 50 55 60
 Asp Ile Gly Val Pro Gly Leu Ala Asp Ala His Ile Val Leu Thr Asn
 65 70 75 80
 Leu Ala Ser Gln Ile Gly Arg Glu Glu Pro Asn Lys Val Thr Leu Ser
 85 90 95
 Gly Asp Ala Ser Leu Asp Met Thr Ser Leu Phe Gly Asn Gln Lys Ala
 100 105 110
 Asp Ile Lys Leu Lys Leu Lys Ala Leu Pro Val Phe Asn Lys Asp Lys
 115 120 125
 Gly Ala Ile Phe Leu Gln Glu Met Glu Ile Val Asp Ala Val Val Thr
 130 135 140
 Pro Asp Lys Met Lys Pro Val Leu Gln Thr Leu Met Pro Tyr Leu Asn
 145 150 155 160
 Gln Ser Leu Gln Asn Tyr Phe Asn Gln Gln Pro Ala Tyr Val Leu Ser
 165 170 175
 Glu Asp Lys Ser Lys Gly Glu Ser Leu Ala Lys Lys Tyr Ala Lys Gly
 180 185 190
 Ile Glu Val Lys Pro Gly Glu Ile Ile Pro Phe Thr Asp
 195 200 205

<210> 8571

<211> 120

<212> PRT

<213> *Enterobacter cloacae*

<400> 8571

Leu Arg Ser Ala Arg His Gly Asn Asp Ala Cys His Val Trp Asn Gly
 1 5 10 15
 Leu Val Tyr Ser Val Val Arg Pro Trp Thr Leu Leu Leu Asn Tyr Leu
 20 25 30
 Arg Phe Lys Leu Ala Asn Thr Ala Asn Gly Phe Gly Phe Cys Ala Ser
 35 40 45
 Ser Gly Ser Ser Pro Lys Thr Met Ser Ala Ser Asp Thr Ser Gln Cys
 50 55 60
 Ser Glu Ser Cys Thr Gly Thr Thr Gly Arg Glu Arg Met Thr Ser Ser
 65 70 75 80
 Ser Thr Ser Ala Arg Arg Ser Ile Ser Pro Asn Ser Leu Thr Ser Ile
 85 90 95
 Gly Ser Tyr Ala Ser Gly Ser Ala Ser Ala Cys Ser Ser Glu Arg Thr
 100 105 110
 Gly Leu Lys Gln Tyr Val Val
 115 120

<210> 8572

<211> 1041

<212> PRT

<213> *Enterobacter cloacae*

<400> 8572

Val Thr Met Lys Arg Met Leu Ile Asn Ala Thr Gln Gln Glu Glu Leu
 1 5 10 15
 Arg Val Ala Leu Val Asp Gly Gln Arg Leu Tyr Asp Leu Asp Ile Glu
 20 25 30
 Ser Pro Gly His Glu Gln Lys Lys Ala Asn Ile Tyr Lys Gly Lys Ile
 35 40 45
 Thr Arg Ile Glu Pro Ser Leu Glu Ala Ala Phe Val Asp Tyr Gly Ala
 50 55 60
 Glu Arg His Gly Phe Leu Pro Leu Lys Glu Ile Ala Arg Glu Tyr Phe
 65 70 75 80
 Pro Ala Asn Tyr Asn Ser His Gly Arg Pro Asn Ile Lys Asp Val Leu
 85 90 95
 Arg Glu Gly Gln Glu Val Ile Val Gln Ile Asp Lys Glu Glu Arg Gly
 100 105 110
 Asn Lys Gly Ala Ala Leu Thr Thr Phe Ile Ser Leu Ala Gly Ser Tyr
 115 120 125
 Leu Val Leu Met Pro Asn Asn Pro Arg Ala Gly Gly Ile Ser Arg Arg
 130 135 140
 Ile Glu Gly Asp Asp Arg Thr Glu Leu Lys Glu Ala Leu Ala Ser Leu
 145 150 155 160
 Glu Leu Pro Asp Gly Met Gly Leu Ile Val Arg Thr Ala Gly Val Gly
 165 170 175
 Lys Ser Ala Glu Ala Leu Gln Trp Asp Leu Ser Phe Arg Leu Lys His
 180 185 190
 Trp Glu Ala Ile Lys Lys Ala Ala Glu Ser Arg Pro Ala Pro Phe Leu
 195 200 205
 Ile His Gln Glu Ser Asn Val Ile Val Arg Ala Phe Arg Asp Tyr Leu
 210 215 220
 Arg Gln Asp Ile Gly Glu Ile Leu Ile Asp Asn Pro Lys Val Leu Glu
 225 230 235 240
 Leu Ala Arg Gln His Ile Ala Ala Leu Gly Arg Pro Asp Phe Thr Ser
 245 250 255
 Lys Ile Lys Leu Tyr Thr Gly Glu Ile Pro Leu Phe Ser His Tyr Gln
 260 265 270
 Ile Glu Ser Gln Ile Glu Ser Ala Phe Gln Arg Glu Val Arg Leu Pro
 275 280 285
 Ser Gly Gly Ser Ile Val Ile Asp Thr Thr Glu Ala Leu Thr Ala Ile

290 295 300
 Asp Ile Asn Ser Ala Arg Ala Thr Arg Gly Gly Asp Ile Glu Glu Thr
 305 310 315 320
 Ala Phe Asn Thr Asn Leu Glu Ala Ala Asp Glu Ile Ala Arg Gln Leu
 325 330 335
 Arg Leu Arg Asp Leu Gly Gly Leu Ile Val Ile Asp Phe Ile Asp Met
 340 345 350
 Thr Pro Val Arg His Gln Arg Ala Val Glu Asn Arg Leu Arg Glu Ala
 355 360 365
 Val Arg Gln Asp Arg Ala Arg Ile Gln Ile Ser His Ile Ser Arg Phe
 370 375 380
 Gly Leu Leu Glu Met Ser Arg Gln Arg Leu Ser Pro Ser Leu Gly Glu
 385 390 395 400
 Ser Ser His His Val Cys Pro Arg Cys Ser Gly Thr Gly Thr Val Arg
 405 410 415
 Asp Asn Glu Ser Leu Ser Leu Ser Ile Leu Arg Leu Ile Glu Glu Glu
 420 425 430
 Ala Leu Lys Glu Asn Thr Lys Glu Val His Ala Ile Val Pro Val Pro
 435 440 445
 Ile Ala Ser Tyr Leu Leu Asn Glu Lys Arg Ala Ala Val Ser Ala Ile
 450 455 460
 Glu Ala Arg Gln Gly Gly Val Arg Cys Ile Ile Val Pro Asn Asp Glu
 465 470 475 480
 Met Gln Thr Pro His Tyr His Val Leu Arg Val Arg Lys Gly Glu Glu
 485 490 495
 Thr Ser Thr Leu Ser Tyr Leu Leu Pro Lys Leu His Glu Glu Glu Met
 500 505 510
 Ala Leu Pro Ser Asp Glu Glu Pro Ala Glu Arg Lys Leu Pro Glu Gln
 515 520 525
 Pro Ala Leu Ala Thr Phe Ile Met Pro Glu Ala Pro Pro Glu Ala Thr
 530 535 540
 Leu Glu Lys Pro Ala Ala Lys Pro Ala Val Gln Lys Ala Ala Pro Ala
 545 550 555 560
 Ala Ala Lys Ala Gln Pro Glu Gln Pro Gly Leu Leu Ser Arg Ile Phe
 565 570 575
 Gly Ala Leu Lys Lys Met Phe Ala Gly Glu Glu Val Gln Pro Glu Gln
 580 585 590
 Pro Lys Glu Ala Pro Lys Glu Ala Lys Pro Glu Arg Gln Gln Asp Arg
 595 600 605
 Arg Lys Arg Gln Asn Asn Arg Arg Asp Arg Asn Asp Asn Asp Arg
 610 615 620
 Ser Asp Arg Asn Glu Arg Arg Asp Asn Arg Ser Glu Asn Asn Glu Gly
 625 630 635 640
 Arg Glu Gln Arg Glu Asp Asn Arg Arg Asn Arg Arg Glu Lys Gln Gln
 645 650 655
 Gln Asn Val Glu Asp Arg Glu Ile Arg Gln Gln Ala Gly Asp Glu Ser
 660 665 670
 Glu Lys Ser Lys Gln Arg Asp Glu Gln Gln Pro Arg Arg Glu Arg Asn
 675 680 685
 Arg Arg Arg Asn Asp Glu Lys Arg Gln Ala Gln Gln Glu Val Lys Asn
 690 695 700
 Leu Asn Arg Glu Ala Pro Val Glu Gln Gln Asp Thr Glu Gln Glu Glu
 705 710 715 720
 Arg Thr Gln Val Met Pro Arg Arg Lys Gln Arg Gln Leu Thr Gln Lys
 725 730 735
 Val Arg Val Gly Ala Val Gln Ala Glu Glu Asn Asp Val Ile Ala Val
 740 745 750
 Glu Ala Ala Glu Ser Thr Thr Gly Thr Gln Val Ala Lys Val Asp Leu
 755 760 765
 Pro Ala Val Val Glu Asn Gln Val Glu Gln Asp Glu Ser Ser Glu Asn
 770 775 780

Arg Asp Asn Ala Gly Met Pro Arg Arg Ser Arg Arg Ser Pro Arg His
 785 790 795 800
 Leu Arg Val Ser Gly Gln Arg Arg Arg Arg Tyr Arg Asp Glu Arg Tyr
 805 810 815
 Pro Thr Gln Ser Pro Met Pro Leu Thr Val Ala Cys Ala Ser Pro Glu
 820 825 830
 Met Ala Ser Gly Lys Val Trp Ile Arg Tyr Pro Val Ala Arg Pro Glu
 835 840 845
 Gln Ala Ile Glu Glu Gln Ala Val Thr Gln Glu Val Ile Ala Pro Val
 850 855 860
 Ala Ala Val Glu Asp Val Val Ser Glu Ala Ala Thr Val Val Glu Pro
 865 870 875 880
 Gln Val Val Asp Thr Ala Ala Pro Gln Ala Val Glu Val Glu Thr Thr
 885 890 895
 His Pro Glu Val Ile Ala Ala Pro Val Asp Ala Ala Pro Gln Ile Ile
 900 905 910
 Ala Glu Glu Asp Thr Val Val Ala Glu Glu Val Ala Glu Asp Ala Glu
 915 920 925
 Pro Val Ser Ala Ala Glu Glu Thr Ala Asp Val Ala Val Glu Thr Val
 930 935 940
 Thr Glu Glu Val Val Gln Asp Val Glu Ile Gln Val Glu Pro Val Val
 945 950 955 960
 Glu Glu Val Lys Ala Pro Glu Val Lys Ser Glu Pro Ile Glu Val Val
 965 970 975
 Ala Ala Val Ala Pro Ala His Val Ala Thr Ala Pro Met Thr Arg Ala
 980 985 990
 Pro Ala Pro Glu Tyr Val Pro Glu Ala Pro Arg His Ser Asp Trp Val
 995 1000 1005
 Arg Pro Ala Phe Asn Phe Glu Gly Lys Gly Ala Ala Gly Gly His Ser
 1010 1015 1020
 Ala Thr His Met Ala Thr Ala Pro Ala Thr Arg Pro Gln Pro Val Glu
 1025 1030 1035 1040

<210> 8573

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8573

Phe Arg Thr His Arg Val Ser Ser Arg Val Thr Asn Arg Met Ser Arg
 1 5 10 15
 Leu Ser Glu Ile Leu Asp Gln Met Thr Val Val Leu Asn Asp Leu Lys
 20 25 30
 Thr Val Met Asp Ala Glu Gln His His Leu Ser Ser Gly Gln Ile Asn
 35 40 45
 Gly Ser Ala Leu Gln Arg Ile Thr Glu Asp Lys Ser Ser Leu Leu Ala
 50 55 60
 Thr Leu Asp Tyr Leu Glu Lys Gln Arg Arg Ala Glu Gln Asp Ala Lys
 65 70 75 80
 Arg Ser Ala Asn Asp Glu Ile Asn Glu Arg Trp Gln Thr Ile Thr Glu
 85 90 95
 Lys Thr Gln His Leu Arg Asp Leu Asn Gln His Asn Gly Trp Leu Leu
 100 105 110
 Glu Gly Gln Ile Ile Arg Asn Gln Gln Ala Leu Glu Val Leu Lys Pro
 115 120 125
 Tyr Lys Glu Pro Gly Leu Tyr Gly Ala Asp Gly Gln Thr Ala Thr Ala
 130 135 140
 Arg Ile Thr Gly Gly Lys Lys Ile Ser Ile
 145 150 155

<210> 8574
 <211> 544
 <212> PRT
 <213> Enterobacter cloacae

<400> 8574

Gly Ala Pro Ala Ser Gln Arg Gly Ser Ser Gly Ser Arg Pro Glu Arg
 1 5 10 15
 Val Pro Arg Val Leu Lys Thr Gly Asp Ser Arg Arg Asn Asn Pro Pro
 20 25 30
 Asp Ala Arg His His Ala His Ala Pro Asp Glu Arg Pro Ala Cys Pro
 35 40 45
 Ser Ser Asp Ala Leu Leu Ala His Tyr Cys Asp Ser Gln Thr Ser Leu
 50 55 60
 Pro Leu Leu Pro Val Ala Ser Ala Leu Pro Val Ser Phe Thr Ile Pro
 65 70 75 80
 Val Pro Ala Pro Ser Val Lys Thr Val Thr Tyr His Phe Asp Arg Phe
 85 90 95
 Ser His Phe Ser Met Arg Thr Leu Tyr Gln Ser Thr Phe Leu Ile Lys
 100 105 110
 Lys Tyr Cys Arg Gln Arg Val Trp Glu Lys Glu Arg Arg His Arg Arg
 115 120 125
 Met Leu Ala Cys Ser Pro Phe Ile Phe Pro Gly Gly Lys Met Ser Arg
 130 135 140
 Val Ser Gln Ala Arg Ser Leu Gly Lys Tyr Phe Leu Leu Val Asp Asn
 145 150 155 160
 Met Leu Val Val Leu Gly Phe Phe Val Val Phe Pro Leu Ile Ser Ile
 165 170 175
 Arg Phe Val Asp Gln Met Gly Trp Ala Ala Leu Met Val Gly Ile Ala
 180 185 190
 Leu Gly Leu Arg Gln Phe Val Gln Gln Gly Leu Gly Val Phe Gly Gly
 195 200 205
 Ala Ile Ala Asp Arg Phe Gly Ala Lys Pro Met Ile Val Thr Gly Met
 210 215 220
 Leu Leu Arg Ala Ala Gly Phe Ala Thr Met Ala Ile Ala His Glu Pro
 225 230 235 240
 Trp Leu Leu Trp Phe Ser Cys Phe Leu Ser Gly Ile Gly Gly Thr Leu
 245 250 255
 Phe Asp Pro Pro Arg Thr Ala Leu Val Val Lys Leu Ile Arg Pro Gln
 260 265 270
 His Arg Gly Arg Phe Phe Ser Ile Leu Met Met Gln Asp Ser Ala Gly
 275 280 285
 Ala Val Val Gly Ala Leu Leu Gly Ser Trp Leu Leu Gln Tyr Asp Phe
 290 295 300
 Arg Leu Val Cys Ala Thr Gly Ala Val Leu Phe Ile Leu Cys Ala Leu
 305 310 315 320
 Phe Asn Gly Leu Phe Leu Pro Ala Trp Lys Leu Ser Thr Val Lys Ala
 325 330 335
 Pro Val Arg Glu Gly Leu Asp Arg Val Leu Ser Asp Lys Arg Phe Val
 340 345 350
 Thr Tyr Val Leu Thr Leu Thr Gly Tyr Tyr Met Leu Ala Val Gln Val
 355 360 365
 Met Leu Met Leu Pro Ile Met Val Asn Asp Ile Ala Gly Thr Pro Ala
 370 375 380
 Ala Val Lys Trp Met Tyr Ala Ile Glu Ala Cys Leu Ser Leu Thr Leu
 385 390 395 400
 Leu Tyr Pro Ile Ala Arg Trp Ser Glu Arg Arg Phe Arg Leu Glu His
 405 410 415
 Arg Leu Met Ala Gly Leu Leu Leu Met Thr Leu Ser Met Met Pro Ile
 420 425 430

Gly Leu Val Ser Ser Leu Gln Gln Leu Phe Met Leu Ile Cys Thr Phe
 435 440 445
 Tyr Ile Gly Ser Ile Ile Ala Glu Pro Ala Arg Glu Thr Leu Ser Ala
 450 455 460
 Ser Leu Ala Asp Ala Arg Ala Arg Gly Ser Tyr Met Gly Phe Ser Arg
 465 470 475 480
 Leu Gly Leu Ala Leu Gly Gly Ala Leu Gly Tyr Thr Gly Gly Gly Trp
 485 490 495
 Leu Phe Asp Ala Gly Lys Ala Leu His Gln Pro Glu Leu Pro Trp Val
 500 505 510
 Met Leu Gly Met Val Gly Phe Met Thr Leu Ile Ala Leu Trp Trp Gln
 515 520 525
 Phe Ser Asp Lys Arg Ser Thr Arg Gly Met Leu Glu Pro Gly Ala
 530 535 540

<210> 8575

<211> 119

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (114)

<400> 8575

Asn Arg Lys Leu Asp Gly Lys Thr Leu Lys Asn Cys Arg Pro Leu Leu
 1 5 10 15
 Ser Asn Arg Gln Tyr Asn Cys Ile Asn Lys Gln Tyr Ile Thr Gln Gly
 20 25 30
 Ala Phe Met Arg Ile Glu Val Thr Ile Ala Lys Ser Thr Val Leu Pro
 35 40 45
 Ala Gly Ala Leu Asp Ala Leu Ala Gly Glu Leu Ser Arg Arg Ile Asn
 50 55 60
 Ser Thr Phe Pro Glu Asn Asp Gly Ala Val Thr Val Arg Tyr Ala Thr
 65 70 75 80
 Ala Asn His Leu Ser Val Ile Gly Gly Ala Lys Glu Asp Lys Glu Arg
 85 90 95
 Ile Ser Glu Ile Leu Gln Glu Thr Trp Glu Ser Ala Asp Asp Trp Phe
 100 105 110
 Met Xaa Ser Gln Thr Asp
 115

<210> 8576

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 8576

Asn Gly Trp His Arg Tyr Ala Ile Ser Gly Asp Lys Asn Met Pro Asn
 1 5 10 15
 Leu Val Leu Ala Ser Thr Ser Pro Tyr Arg Arg Met Leu Leu Glu Lys
 20 25 30
 Leu Gly Ile Pro Phe Glu Cys Ala Ala Pro Glu Val Asp Glu Thr Pro
 35 40 45
 Gln Pro Gly Glu Ser Pro Arg His Leu Val Thr Arg Leu Ala Lys Glu
 50 55 60
 Lys Ala Gln Ser Leu Ala Val Arg Tyr Pro Ala His Leu Ile Ile Gly
 65 70 75 80
 Ser Asp Gln Val Cys Val Leu Asp Gly Glu Ile Thr Gly Lys Pro Tyr
 85 90 95
 Thr Glu Glu Ile Ala Cys Gln Gln Leu Leu Arg Ala Arg Gly Ser Ile

100 105 110
 Val Thr Phe Tyr Thr Gly Leu Ala Leu Tyr Asn Ser Ala Ser Gly His
 115 120 125
 Leu Gln Thr Glu Cys Glu Pro Phe Asp Val His Phe Arg His Leu Ser
 130 135 140
 Glu Gln Glu Ile Met Asp Tyr Val Arg Arg Glu Arg Pro Leu Asn Cys
 145 150 155 160
 Ala Gly Ser Phe Lys Ser Glu Gly Leu Gly Ile Ala Leu Phe Asp Lys
 165 170 175
 Leu Asp Gly Arg Asp Ser Asn Thr Leu Val Gly Leu Pro Leu Ile Ala
 180 185 190
 Leu Cys Gln Met Leu Arg Arg Glu Glu Cys Asn Pro Leu Thr Met
 195 200 205

<210> 8577

<211> 368

<212> PRT

<213> *Enterobacter cloacae*

<400> 8577

Phe Val Ser Gly Lys Asn Ser His Leu Met Thr Asp Leu Phe Gln Ala
 1 5 10 15
 Gly Ala Ser Met Thr Val Gln Ser Gln Val Leu Lys Ile Arg Arg Pro
 20 25 30
 Asp Asp Trp His Ile His Leu Arg Asp Gly Asp Met Leu Lys Thr Val
 35 40 45
 Val Pro Tyr Thr Ser Glu Ile Tyr Gly Arg Ala Ile Val Met Pro Asn
 50 55 60
 Leu Val Pro Pro Val Thr Thr Val Glu Ala Ala Ile Ala Tyr Arg Gln
 65 70 75 80
 Arg Ile Leu Asp Ala Val Pro Ala Gly His Asp Phe Thr Pro Leu Met
 85 90 95
 Thr Cys Tyr Leu Thr Asp Ser Leu Asp Pro Asn Glu Val Glu Arg Gly
 100 105 110
 Phe Asn Glu Gly Val Phe Thr Ala Ala Lys Leu Tyr Pro Ala Asn Ala
 115 120 125
 Thr Thr Asn Ser Ser His Gly Val Thr Ser Ile Asp Ala Ile Met Pro
 130 135 140
 Val Leu Glu Arg Met Gln Lys Leu Gly Met Pro Leu Leu Val His Gly
 145 150 155 160
 Glu Val Thr His Ala Asp Ile Asp Ile Phe Asp Arg Glu Ala Arg Phe
 165 170 175
 Ile Glu Thr Val Met Glu Pro Leu Arg Gln Arg Leu Pro Gly Leu Lys
 180 185 190
 Val Val Phe Glu His Ile Thr Thr Lys Asp Ala Ala Glu Tyr Val Arg
 195 200 205
 Asp Gly Asn Glu Leu Ile Ala Ala Thr Ile Thr Pro Gln His Leu Met
 210 215 220
 Phe Asn Arg Asn His Met Leu Val Gly Gly Val Arg Pro His Leu Tyr
 225 230 235 240
 Cys Leu Pro Ile Leu Lys Arg Asn Ile His Gln Gln Ala Leu Arg Glu
 245 250 255
 Leu Val Ala Ser Gly Phe Pro Arg Ala Phe Leu Gly Thr Asp Ser Ala
 260 265 270
 Pro His Ala Arg His Arg Lys Glu Ala Ser Cys Gly Cys Ala Gly Cys
 275 280 285
 Phe Asn Ala Pro Thr Ala Leu Ala Ser Tyr Ala Thr Val Phe Glu Glu
 290 295 300
 Met Asn Ala Leu Asp His Phe Glu Ala Phe Cys Ser Leu Asn Gly Pro
 305 310 315 320
 Arg Phe Tyr Gly Leu Pro Ile Asn Asp Thr Phe Ile Glu Leu Glu Arg

325 330 335
 Lys Glu Ser Gln Val Glu Ala Ser Ile Ala Leu Thr Asp Asp Thr Leu
 340 345 350
 Ile Pro Phe Leu Ala Gly Glu Thr Val Asn Trp Thr Val Lys Arg
 355 360 365

<210> 8578

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 8578

Arg Gly Ala Leu Cys Ala Gly Arg Arg Ile Arg His Ala Ser Ile Lys
 1 5 10 15
 Arg Lys Pro Asp Arg Ala Arg Gly Ser Pro Gly Arg Arg Gly Cys Arg
 20 25 30
 Ala Glu Ala Ala Ser Gly Cys Val Thr Arg Thr Ser Gly Arg Leu Ile
 35 40 45
 Val Thr Thr Leu Arg Ile Gly Val Val Gly Leu Gly Gly Ile Ala Gln
 50 55 60
 Lys Ala Trp Leu Pro Val Leu Gly Ala Ala Ser Asp Trp Thr Leu Gln
 65 70 75 80
 Gly Ala Trp Ser Pro Thr Arg Glu Lys Ala Glu Arg Ile Cys Lys Thr
 85 90 95
 Trp Arg Ile Pro Tyr Ala Gly Ser Leu Gln Asp Leu Ala Arg Glu Cys
 100 105 110
 Asp Ala Val Phe Val His Thr Ser Thr Ala Thr His Tyr Gln Val Val
 115 120 125
 Ser Glu Leu Leu Asn Ala Gly Val His Val Cys Val Asp Lys Pro Leu
 130 135 140
 Ala Glu Asn Val Gln Asp Ala Glu Arg Leu Ile Glu Leu Ala Ala Arg
 145 150 155 160
 Lys Lys Leu Thr Leu Met Val Gly Phe Asn Arg Arg Phe Ala Pro Leu
 165 170 175
 Tyr Gln Gln Leu Lys Ala Gln Pro Gly Ser Phe Ala Ser Leu Arg Met
 180 185 190
 Asp Lys His Arg Thr Asp Ser Val Gly Pro Asn Asp Leu Arg Phe Thr
 195 200 205
 Leu Leu Asp Asp Tyr Leu His Val Val Asp Thr Ala Leu Trp Leu Ser
 210 215 220
 Asn Gly Lys Ala Gln Leu Gln Ser Gly Thr Leu Leu Thr Asn Glu Gln
 225 230 235 240
 Gly Glu Met Val Tyr Ala Glu His His Phe Ala Val Glu His Met Gln
 245 250 255
 Val Thr Thr Ser Met His Arg Arg Ala Gly Ser Gln Arg Glu Ser Val
 260 265 270
 Gln Ala Val Met Asp Gly Ala Leu Tyr Asp Val Thr Asp Met Arg Glu
 275 280 285
 Trp Arg Glu Glu Lys Gly Asn Gly Val Val Ala Leu Pro Val Pro Gly
 290 295 300
 Trp Gln Ser Thr Leu Glu Gln Arg Gly Phe Val Gly Cys Ala Arg His
 305 310 315 320
 Phe Ile Thr Cys Val Gln Asn Gln Thr Val Pro Glu Thr Ser Gly Glu
 325 330 335
 Gln Ala Ile Leu Ala Gln Arg Ile Val Glu Arg Leu Trp Arg Glu Ala
 340 345 350
 Met Ser Glu
 355

<210> 8579

<211> 540

<212> PRT

<213> Enterobacter cloacae

<400> 8579

Thr Lys Arg Arg Leu Leu Ala Leu Pro Gly Gly Ala Phe Ala Tyr Pro
 1 5 10 15
 Ser Trp Lys Ser Val Gly Leu Trp Asn Phe Thr Leu Met Asn Leu Leu
 20 25 30
 Lys Ser Leu Ala Ala Val Ser Ser Met Thr Met Phe Ser Arg Val Leu
 35 40 45
 Gly Phe Ala Arg Asp Ala Ile Val Ala Arg Val Phe Gly Ala Gly Met
 50 55 60
 Ala Thr Asp Ala Phe Phe Val Ala Phe Lys Leu Pro Asn Leu Leu Arg
 65 70 75 80
 Arg Ile Phe Ala Glu Gly Ala Phe Ser Gln Ala Phe Val Pro Ile Leu
 85 90 95
 Ala Glu Tyr Lys Ser Lys Gln Gly Glu Asp Ala Thr Arg Val Phe Val
 100 105 110
 Ala Tyr Val Ser Gly Leu Leu Thr Leu Ala Leu Ala Ile Val Thr Val
 115 120 125
 Leu Gly Met Leu Ala Ala Pro Trp Val Ile Met Val Thr Ala Pro Gly
 130 135 140
 Phe Ala Asp Thr Ala Asp Lys Phe Ala Leu Thr Thr Gln Leu Leu Arg
 145 150 155 160
 Ile Thr Phe Pro Tyr Ile Leu Leu Ile Ser Leu Ala Ser Leu Val Gly
 165 170 175
 Ala Ile Leu Asn Thr Trp Asn Arg Phe Ser Val Pro Ala Phe Ala Pro
 180 185 190
 Thr Phe Leu Asn Val Ser Met Ile Gly Phe Ala Leu Phe Ala Ala Pro
 195 200 205
 His Phe Asn Pro Pro Val Leu Ala Leu Ala Trp Ala Val Thr Val Gly
 210 215 220
 Gly Val Leu Gln Leu Ala Tyr Gln Leu Pro His Leu Lys Lys Ile Gly
 225 230 235 240
 Met Leu Val Leu Pro Arg Ile Ser Phe Lys Asp Ala Gly Ala Met Arg
 245 250 255
 Val Ile Lys Gln Met Gly Pro Ala Ile Leu Gly Val Ser Val Ser Gln
 260 265 270
 Ile Ser Leu Ile Ile Asn Thr Ile Phe Ala Ser Phe Leu Val Ser Gly
 275 280 285
 Ser Val Ser Trp Met Tyr Tyr Ala Asp Arg Leu Met Glu Phe Pro Ser
 290 295 300
 Gly Val Leu Gly Val Ala Leu Gly Thr Ile Leu Leu Pro Ser Leu Ser
 305 310 315 320
 Lys Ser Phe Ala Ser Gly Asn His Asp Glu Tyr Cys Arg Leu Met Asp
 325 330 335
 Trp Gly Leu Arg Leu Cys Phe Leu Leu Ala Leu Pro Ser Ala Val Ala
 340 345 350
 Leu Gly Ile Leu Ala Lys Pro Leu Thr Val Ser Leu Phe Gln Tyr Gly
 355 360 365
 Lys Phe Thr Ala Phe Asp Ala Ala Met Thr Gln Arg Ala Leu Val Ala
 370 375 380
 Tyr Ser Val Gly Leu Met Gly Leu Ile Val Val Lys Val Leu Ala Pro
 385 390 395 400
 Gly Phe Tyr Ser Arg Gln Asp Ile Lys Thr Pro Val Lys Ile Ala Ile
 405 410 415
 Val Thr Leu Ile Met Thr Gln Leu Met Asn Leu Ala Phe Ile Gly Pro
 420 425 430
 Leu Lys His Ala Gly Leu Ser Leu Ser Ile Gly Leu Ala Ala Cys Leu
 435 440 445
 Asn Ala Gly Leu Leu Tyr Trp Gln Leu Arg Lys Gln Asp Ile Phe Thr

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      450              455              460
Pro Gln Pro Gly Trp Ala Ser Phe Leu Leu Arg Leu Ala Ile Ala Val
465              470              475              480
Val Val Met Ala Ala Ala Leu Val Gly Met Leu Tyr Val Met Pro Glu
      485              490              495
Trp Ala Gln Gly Thr Met Pro Tyr Arg Leu Met Arg Leu Met Ala Val
      500              505              510
Val Ala Val Gly Val Val Ala Tyr Phe Ala Thr Leu Ala Val Leu Gly
      515              520              525
Phe Lys Val Lys Glu Phe Ala Arg Arg Thr Val
      530              535              540

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<210> 8580

<211> 256

<212> PRT

<213> *Enterobacter cloacae*

<400> 8580

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Tyr Arg Glu Glu His Asp Ala Gln Asn Thr His Ser Arg Pro Val Lys
1              5              10              15
Glu Thr Arg Met Ser Ile Ala Val Asn Val Asn Asp Pro Thr Asn Thr
      20              25              30
Gly Val Asn Ser Thr Ser Ser Ala Thr Gly Ser Ser Ser Leu Thr Gly
      35              40              45
Ser Asn Ala Ser Asp Leu Gln Ser Ser Phe Leu Thr Leu Leu Val Ala
      50              55              60
Gln Leu Lys Asn Gln Asp Pro Thr Asn Pro Met Gln Asn Asn Glu Leu
65              70              75              80
Thr Thr Gln Leu Ala Gln Ile Ser Thr Val Ser Gly Ile Glu Lys Leu
      85              90              95
Asn Thr Thr Leu Gly Ser Val Ser Gly Gln Ile Asp Asn Ser Gln Ser
      100              105              110
Leu Gln Ala Ala Asn Leu Ile Gly His Gly Val Met Ile Pro Gly Thr
      115              120              125
Thr Ile Leu Ala Gly Thr Ser Thr Thr Asp Gly Thr Ser Thr Thr Thr
      130              135              140
Thr Thr Pro Phe Gly Val Glu Leu Gln Gln Pro Ala Asp Lys Val Thr
145              150              155              160
Ala Thr Ile Lys Asp Ala Ser Gly Asn Val Val Arg Thr Ile Glu Ile
      165              170              175
Gly Glu Leu Lys Ala Gly Val His Thr Phe Thr Trp Asp Gly Ser Leu
      180              185              190
Thr Asp Gly Thr Lys Ala Pro Asn Gly Ser Tyr Gln Val Ala Ile Ser
      195              200              205
Ala Ser Asn Gly Thr Thr Gln Leu Val Ala Gln Pro Leu Gln Phe Ala
210              215              220
Leu Val Gln Gly Val Ile Lys Gly Ser Asp Gly Asn Lys Leu Asp Leu
225              230              235              240
Gly Thr Ser Gly Thr Thr Thr Leu Asp Glu Val Arg Gln Ile Ile
      245              250              255

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<210> 8581

<211> 272

<212> PRT

<213> *Enterobacter cloacae*

<400> 8581

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Pro Thr Ser Gly Tyr Glu Leu Thr Gly Leu Pro Met Ile Ser Ser Leu
1              5              10              15
Trp Ile Ala Lys Thr Gly Leu Asp Ala Gln Gln Thr Asn Met Asp Val
      20              25              30

```

Ile Ala Asn Asn Leu Ala Asn Val Ser Thr Asn Gly Phe Lys Arg Gln
 35 40 45
 Arg Ala Val Phe Glu Asp Leu Leu Tyr Gln Thr Ile Arg Gln Pro Gly
 50 55 60
 Ala Gln Ser Ser Glu Gln Thr Thr Leu Pro Ser Gly Leu Gln Ile Gly
 65 70 75 80
 Thr Gly Val Arg Pro Val Ala Thr Glu Arg Leu His Ser Gln Gly Asn
 85 90 95
 Leu Ser Gln Thr Asn Asn Ser Lys Asp Val Ala Ile Lys Gly Gln Gly
 100 105 110
 Phe Phe Gln Val Gln Leu Pro Asp Gly Thr Ser Ala Tyr Thr Arg Asp
 115 120 125
 Gly Ser Phe Gln Val Asp Gln Asn Gly Gln Leu Val Thr Ala Gly Gly
 130 135 140
 Phe Gln Val Gln Pro Ala Ile Thr Ile Pro Ala Asn Ala Leu Ser Ile
 145 150 155 160
 Thr Ile Gly Arg Asp Gly Ile Val Ser Val Thr Gln Gln Gly Gln Ala
 165 170 175
 Ala Pro Val Gln Val Gly Gln Leu Asn Leu Thr Thr Phe Met Asn Asp
 180 185 190
 Thr Gly Leu Glu Ser Ile Gly Glu Asn Leu Tyr Thr Glu Thr Gln Ser
 195 200 205
 Ser Gly Thr Pro Asn Glu Ser Thr Pro Gly Leu Asn Gly Ala Gly Leu
 210 215 220
 Leu Tyr Gln Gly Tyr Val Glu Thr Ser Asn Val Asn Val Ala Glu Glu
 225 230 235 240
 Leu Val Asn Met Ile Gln Val Gln Arg Ala Tyr Glu Ile Asn Ser Lys
 245 250 255
 Ala Val Ser Thr Thr Asp Gln Met Leu Gln Lys Leu Thr Gln Leu
 260 265 270

<210> 8582

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 8582

Gly Val Ala Arg Cys Gly Lys Arg Arg Thr Gly Ser Leu Phe Ser Lys
 1 5 10 15
 Met Lys Ala Met Gln Lys Asn Ala Ala Phe Arg Tyr Pro Ile Leu Thr
 20 25 30
 Val Leu Ala Val Thr Leu Ser Gly Cys Ala Trp Ile Pro Ser Lys Pro
 35 40 45
 Leu Val Gln Gly Ala Thr Thr Ala Gln Pro Val Pro Gly Pro Ala Pro
 50 55 60
 Val Val Asn Gly Ser Ile Phe Gln Thr Ala Gln Pro Ile Asn Tyr Gly
 65 70 75 80
 Tyr Gln Pro Leu Phe Glu Asp Arg Arg Pro Arg Asn Val Gly Asp Thr
 85 90 95
 Leu Thr Ile Val Leu Gln Glu Asn Val Ser Ala Ser Lys Ser Ser Ser
 100 105 110
 Ala Asn Ala Ser Arg Asp Gly Lys Thr Asn Phe Gly Phe Asp Thr Val
 115 120 125
 Pro Arg Tyr Leu Gln Gly Leu Phe Gly Asn Ala Arg Ala Asp Val Glu
 130 135 140
 Ala Ser Gly Gly Asn Thr Phe Asn Gly Lys Gly Gly Ala Asn Ala Ser
 145 150 155 160
 Asn Thr Phe Ser Gly Thr Leu Thr Val Thr Val Asp Gln Val Leu Val
 165 170 175
 Asn Gly Asn Leu His Val Val Gly Glu Lys Gln Ile Ala Ile Asn Gln
 180 185 190

Gly Thr Glu Phe Ile Arg Phe Ser Gly Val Val Asn Pro Arg Thr Ile
 195 200 205
 Ser Gly Thr Asn Thr Val Pro Ser Thr Gln Val Ala Asp Ala Arg Ile
 210 215 220
 Glu Tyr Val Gly Asn Gly Tyr Ile Asn Glu Ala Gln Asn Met Gly Trp
 225 230 235 240
 Leu Gln Arg Phe Phe Leu Asn Leu Ser Pro Met
 245 250

<210> 8583

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 8583

Pro Met Tyr Lys Phe Leu Phe Ala Val Ala Leu Ser Leu Val Ala Thr
 1 5 10 15
 Val Ala Gln Ala Asp Arg Ile Arg Asp Leu Thr Ser Val Gln Gly Val
 20 25 30
 Arg Glu Asn Ser Leu Ile Gly Tyr Gly Leu Val Val Gly Leu Asp Gly
 35 40 45
 Thr Gly Asp Gln Thr Thr Gln Thr Pro Phe Thr Thr Gln Ser Leu Asn
 50 55 60
 Asn Met Leu Ser Gln Leu Gly Ile Thr Val Pro Ala Gly Thr Asn Met
 65 70 75 80
 Gln Leu Lys Asn Val Ala Ala Val Met Val Thr Ala Ser Tyr Pro Ala
 85 90 95
 Phe Ala Arg Gln Gly Gln Thr Ile Asp Val Val Val Ser Ser Met Gly
 100 105 110
 Asn Ala Lys Ser Leu Arg Gly Gly Thr Leu Leu Met Thr Pro Leu Lys
 115 120 125
 Gly Val Asp Ser Gln Val Tyr Ala Leu Ala Gln Gly Asn Ile Leu Val
 130 135 140
 Gly Gly Ala Gly Ala Ser Ala Gly Gly Ser Ser Val Gln Val Asn Gln
 145 150 155 160
 Leu Asn Gly Gly Arg Ile Thr Asn Gly Ala Ile Ile Glu Arg Glu Leu
 165 170 175
 Pro Thr Gln Phe Gly Thr Gly Asn Thr Ile Asn Leu Gln Leu Asn Asn
 180 185 190
 Glu Asp Phe Thr Met Ala Gln Gln Ile Ala Asp Thr Ile Asn Arg Ser
 195 200 205
 Arg Gly Tyr Gly Ser Ala Thr Ala Leu Asp Ala Arg Thr Val Gln Ile
 210 215 220
 Arg Thr Ser Thr Gly Ser Ser Asn Gln Val Arg Met Leu Ala Asp Ile
 225 230 235 240
 Gln Asn Met Glu Val Asn Val Pro Val Gln Asp Ala Lys Val Ile Ile
 245 250 255
 Asn Ser Arg Thr Gly Ser Val Val Met Asn Arg Glu Val Thr Leu Asp
 260 265 270
 Ser Cys Ala Val Ala Gln Gly Asn Leu Ser Val Thr Val Asn Arg Ser
 275 280 285
 Ala Asn Val Ser Gln Pro Asp Thr Pro Phe Gly Gly Gly Gln Thr Val
 290 295 300
 Val Thr Pro Gln Thr Gln Ile Asp Leu Arg Gln Ser Gly Gly Ser Leu
 305 310 315 320
 Gln Ser Val Arg Ser Ser Ala Asn Leu Asn Ser Val Val Arg Ala Leu
 325 330 335
 Asn Ala Leu Gly Ala Thr Pro Met Asp Leu Met Ser Ile Leu Gln Ser
 340 345 350
 Met Gln Ser Ala Gly Cys Leu Arg Ala Lys Leu Glu Ile Ile
 355 360 365

<210> 8584
 <211> 318
 <212> PRT
 <213> Enterobacter cloacae

<400> 8584

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Met Leu Thr Asp Ser Lys Leu Leu Thr Ser Ala Ala Trp Asp Ala Gln
1      5      10      15
Ser Leu Asn Glu Leu Lys Thr Lys Ala Gly Lys Asp Pro Ala Ala Asn
20     25     30
Ile Arg Pro Val Ala Arg Gln Val Glu Gly Met Phe Val Gln Met Met
35     40     45
Leu Lys Ser Met Arg Glu Thr Leu Pro Lys Asp Gly Met Phe Ser Ser
50     55     60
Asp Ser Thr Arg Leu Tyr Thr Ser Met Tyr Asp Gln Gln Ile Ala Gln
65     70     75     80
Gln Met Thr Ala Gly Lys Gly Leu Gly Leu Ala Asp Met Ile Val Lys
85     90     95
Gln Thr Ala Ala Ala Gln Gly Leu Pro Pro Glu Glu Ala Pro Gln Gln
100    105    110
Val Pro Leu Lys Phe Asp Leu Glu Lys Val Thr Ser Tyr Gln Asn Gln
115    120    125
Ala Leu Thr Gln Met Val Arg Lys Ala Met Pro Lys Pro Ala Glu Thr
130    135    140
Arg Asp Glu Pro Leu Ser Gly Asp Ser Lys Asp Phe Leu Ala Gln Leu
145    150    155    160
Ser Leu Pro Ala Arg Leu Ala Ser Glu Glu Ser Gly Val Pro His His
165    170    175
Leu Ile Leu Ala Gln Ala Ala Leu Glu Ser Gly Trp Gly Gln Arg Gln
180    185    190
Ile Arg Arg Glu Asn Gly Glu Pro Ser Phe Asn Ile Phe Gly Val Lys
195    200    205
Ala Thr Ser Ser Trp Lys Gly Pro Thr Thr Glu Ile Thr Thr Thr Glu
210    215    220
Tyr Glu Asn Gly Ala Ala Val Lys Val Lys Ala Lys Phe Arg Val Tyr
225    230    235    240
Ser Ser Tyr Leu Glu Ala Leu Ser Asp Tyr Val Gly Leu Leu Ser Arg
245    250    255
Asn Pro Arg Tyr Thr Ala Val Thr Gln Ala Ala Thr Pro Glu Gln Gly
260    265    270
Ala Gln Ala Leu Gln Asn Ala Gly Tyr Ala Thr Asp Pro Asn Tyr Ala
275    280    285
Arg Lys Leu Thr Ser Met Ile Gln Gln Leu Lys Ser Met Ser Glu Lys
290    295    300
Val Ser Lys Ala Tyr Ser Thr Asp Leu Glu Asn Leu Phe
305    310    315

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<210> 8585
 <211> 561
 <212> PRT
 <213> Enterobacter cloacae

<400> 8585

```

Pro Ser Ser Gly Leu Val Ser Glu Arg Ile Lys Gly Thr Pro Met Ser
1      5      10      15
Ser Leu Ile Asn Ser Ala Met Ser Gly Leu Ser Ala Ala Gln Ser Ala
20     25     30
Leu Asn Thr Val Ser Asn Asn Ile Ser Ser Tyr Asn Val Ala Gly Tyr
35     40     45
Thr Arg Gln Thr Thr Ile Leu Gly Ala Ser Asn Ser Thr Leu Thr Gly

```

50	55	60
Gly Gly Trp Val Gly	Asn Gly Val Tyr Val Ser Gly Val Gln Arg Glu	
65	70	75
Tyr Asp Ala Phe Ile Thr	Asn Gln Leu Arg Ala Ala Gln Asn Gln Ser	80
	85	90
Ser Gly Leu Thr Thr	Arg Tyr Gln Gln Met Ser Lys Ile Asp Asp Val	95
	100	105
Leu Ser Asp Thr Thr	Asn Ser Leu Ser Ala Asn Leu Gln Asp Phe Phe	110
	115	120
Lys Ser Leu Gln Thr	Leu Val Ser Asn Ala Glu Asp Pro Ala Ala Arg	125
	130	135
Gln Thr Val Leu Gly	Lys Ala Asp Gly Leu Val Asn Gln Phe Lys Thr	140
	145	150
Asn Asp Gln Tyr Leu	Arg Asp Gln Asp Ala Gln Val Asn Thr Ala Ile	155
	165	170
Ser Thr Ser Val Asp	Gln Ile Asn Asn Tyr Ala Lys Gln Ile Ala Asn	175
	180	185
Leu Asn Asp Gln Ile	Ser Arg Leu Thr Gly Val Gly Ala Gly Ala Ser	190
	195	200
Pro Asn Glu Leu Leu	Asp Gln Arg Asp Gln Leu Val Ser Glu Leu Asn	205
	210	215
Lys Ile Val Gly Val	Asp Val Thr Val Gln Asp Ser Gly Thr Tyr Asn	220
	225	230
Ile Ser Ile Ala Asn	Gly Tyr Thr Leu Val Gln Gly Ser Asn Ala Ser	235
	245	250
Gln Leu Ala Ala Val	Lys Ser Ser Ala Asp Pro Ala Arg Thr Thr Ile	255
	260	265
Ala Tyr Val Asp Ala	Ala Ala Gly Asn Val Glu Ile Ser Glu Lys Gln	270
	275	280
Ile Thr Thr Gly Ser	Leu Gly Gly Leu Leu Thr Phe Arg Ser Gln Asp	285
	290	295
Leu Asp Gln Ala Arg	Asn Thr Leu Asn Gln Met Ala Leu Ala Phe Ala	300
	305	310
Asp Ala Met Asn Thr	Gln His Gln Ala Gly Phe Asp Ala Asn Gly Asp	315
	325	330
Lys Gly Gly Lys Leu	Phe Asp Phe Gly Ser Pro Ala Val Leu Ser Asn	335
	340	345
Gly Lys Asn Thr Gly	Ser Ala Ser Val Thr Ala Thr Met Thr Asp Ser	350
	355	360
Thr Lys Val Gln Ala	Thr Asn Tyr Lys Val Glu Tyr Asn Gly Thr Asp	365
	370	375
Trp Thr Ile Thr Arg	Leu Ser Asp Asn Thr Ser Phe Thr Ala Lys Pro	380
	385	390
Asp Ala Ser Gly Asn	Leu Ser Phe Asp Gly Leu Asn Val Lys Ile Ser	395
	405	410
Gly Ser Ala Asn Asn	Lys Asp Ser Phe Ile Val Lys Pro Val Asn Asp	415
	420	425
Val Ile Val Asn Met	Asp Val Ala Ile Ser Asp Glu Ser Lys Leu Ala	430
	435	440
Met Ala Ser Ala Gln	Gly Ser Gly Glu Ser Asp Asn Thr Asn Gly Gln	445
	450	455
Lys Leu Leu Asp Leu	Gln Ser Ala Lys Leu Val Gly Gly Asn Lys Thr	460
	465	470
Phe Asn Asp Ala Tyr	Ala Ala Leu Val Ser Thr Val Gly Ser Thr Thr	475
	485	490
Ala Ser Leu Lys Thr	Ser Ser Glu Thr Lys Val Asn Val Val Thr Gln	495
	500	505
Leu Thr Lys Gln Gln	Gln Ser Ile Ser Gly Val Asn Leu Asp Glu Glu	510
	515	520
Tyr Gly Asn Leu Gln	Arg Tyr Gln Gln Tyr Tyr Leu Ala Asn Ala Gln	525
	530	535
		540

Val Leu Gln Thr Ala Ser Thr Leu Phe Asp Ala Leu Ile Asn Ile Arg
 545 550 555 560

<210> 8586

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 8586

Lys Ile Asn Thr Ser Tyr Ala Ile Ala Ala Trp Met Ile Gly Gln Thr
 1 5 10 15
 Lys Leu Val Ile Pro Ser Thr Ser Leu Gln Asn Pro Asp Leu Thr Arg
 20 25 30
 Lys Thr Asp Ser Leu Phe His Cys Ser Pro Gly Tyr Ser Lys Met Thr
 35 40 45
 Phe Thr Asn Tyr His Pro Val Thr His Ser Phe Phe Thr Ser Thr Gly
 50 55 60

65

<210> 8587

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 8587

Tyr Ala Arg Pro Met Gln Lys Val Lys Leu Pro Leu Thr Leu Asp Pro
 1 5 10 15
 Val Arg Thr Ala Gln Lys Arg Leu Asp Tyr Glu Gly Ile Tyr Ser Ser
 20 25 30
 Asp Gln Ala Glu Arg Ile Ala Glu Ser Val Val Ser Val Asp Ser Asp
 35 40 45
 Val Glu Cys Ser Met Ser Phe Ala Ile Asp Asn Gln Arg Leu Ala Val
 50 55 60
 Leu Thr Gly Asp Ala Lys Val Thr Val Thr Leu Glu Cys Gln Arg Cys
 65 70 75 80
 Gly Lys Pro Phe Val Gln His Val His Thr Thr Tyr Cys Phe Ser Pro
 85 90 95
 Val Arg Ser Asp Glu Gln Ala Glu Ala Leu Pro Glu Ala Tyr Glu Pro
 100 105 110
 Ile Glu Val Asn Glu Phe Gly Glu Ile Asp Leu Leu Ala Leu Val Glu
 115 120 125
 Asp Glu Val Ile Leu Ser Leu Pro Val Val Pro Val His Asp Ser Glu
 130 135 140
 His Cys Glu Val Ser Glu Ala Asp Met Val Phe Gly Glu Leu Pro Asp
 145 150 155 160
 Glu Ala Gln Lys Pro Asn Pro Phe Ala Val Leu Ala Ser Leu Lys Arg
 165 170 175
 Lys

<210> 8588

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 8588

Gln Ala Glu Gln Lys Arg Arg Glu Gly Val Val Thr Met Phe Gly Tyr
 1 5 10 15

Arg Ser Asn Val Pro Lys Val Arg Leu Thr Thr Asp Arg Leu Val Val
 20 25 30
 Arg Leu Val His Glu Arg Asp Ala Trp Arg Leu Ala Asp Tyr Tyr Ala
 35 40 45
 Glu Asn Arg Gln Phe Leu Lys Pro Trp Glu Pro Val Arg Asp Glu Ser
 50 55 60
 His Cys Tyr Pro Ser Gly Trp Gln Ala Arg Leu Ser Met Ile Ala Glu
 65 70 75 80
 Phe His Lys Gln Gly Ser Ala Phe Tyr Phe Ala Leu Leu Asp Pro Glu
 85 90 95
 Glu Lys Glu Ile Val Gly Ile Ala Asn Phe Ser Asn Val Val Arg Gly
 100 105 110
 Ser Phe His Ala Cys Tyr Leu Gly Tyr Ser Ile Gly Gln Lys Trp Gln
 115 120 125
 Gly Gln Gly Leu Met Phe Glu Ala Leu Thr Ala Ala Ile Arg Tyr Met
 130 135 140
 Gln Arg Thr Gln His Ile His Arg Ile Met Ala Asn Tyr Met Pro His
 145 150 155 160
 Asn Lys Arg Ser Gly Asp Leu Leu Ala Arg Leu Gly Phe Glu Lys Glu
 165 170 175
 Gly Tyr Ala Lys Asp Tyr Leu Leu Ile Asp Gly Glu Trp Arg Asp His
 180 185 190
 Val Leu Thr Ala Leu Thr Thr Gln Glu Trp Thr Ala Gly Arg
 195 200 205

<210> 8589

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 8589

Gly Glu Lys Met Lys Tyr Gln Leu Asn Gly Ala Glu Ala Arg Val Ile
 1 5 10 15
 Gly Cys Leu Leu Glu Lys Gln Val Thr Thr Pro Glu Gln Tyr Pro Leu
 20 25 30
 Ser Val Asn Ala Val Thr Met Ala Cys Asn Gln Lys Thr Asn Arg Glu
 35 40 45
 Pro Val Met Asn Leu Gly Glu His Glu Val Gln Asp Ile Leu Asp Glu
 50 55 60
 Leu Val Lys Arg His Tyr Leu Arg Thr Val Ser Gly Phe Gly Asn Arg
 65 70 75 80
 Val Thr Lys Tyr Glu Gln Arg Phe Cys Asn Ser Glu Phe Gly Asp Leu
 85 90 95
 Lys Leu Ser Ala Ala Glu Val Ala Val Ile Thr Thr Leu Leu Leu Arg
 100 105 110
 Gly Ala Gln Thr Pro Gly Glu Leu Arg Ala Arg Ala Ser Arg Met His
 115 120 125
 Glu Phe Gln Asp Met Gln Asp Val Glu Gln Thr Leu Glu Gly Leu Ala
 130 135 140
 Ser Arg Glu Asp Gly Pro Tyr Val Val Arg Leu Pro Arg Glu Pro Gly
 145 150 155 160
 Lys Arg Glu Ser Arg Tyr Met His Leu Phe Ser Gly Asp Val Glu Pro
 165 170 175
 Ser Ala Leu Ala Val Val Ser Asp Thr Pro Ala Ser Asn Glu Ser Leu
 180 185 190
 Thr Ala Arg Val Ala Ala Leu Glu Asp Glu Val Ala Gly Leu Lys Gln
 195 200 205
 Arg Leu Asp Ala Leu Leu Ala His Leu Gly Asp
 210 215 220

<210> 8590

<211> 147
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8590

```

Asn Phe Leu Ile Ser Gly Gly Asp Met Leu Asp Lys Leu Asp Ala Ala
1      5      10      15
Leu Arg Phe Gln Gln Glu Ala Leu Asn Leu Arg Ala Gln Arg Gln Glu
      20      25      30
Ile Leu Ala Ala Asn Ile Ala Asn Ala Asp Thr Pro Gly Tyr Gln Ala
      35      40      45
Arg Asp Ile Asp Phe Ser Ser Glu Leu Lys Lys Val Met Glu Arg Gly
      50      55      60
Arg Ala Glu Gly Thr Gly Val Ser Leu Ala Leu Thr Ser Ser Arg His
      65      70      75      80
Ile Pro Ala Gln Ala Met Thr Ala Pro Thr Thr Asp Leu Leu Tyr Arg
      85      90      95
Ile Pro Asp Gln Pro Ser Leu Asp Gly Asn Thr Val Asp Met Asp Arg
      100      105      110
Glu Arg Thr Gln Phe Ala Asp Asn Ser Leu Gln Tyr Gln Thr Gly Leu
      115      120      125
Thr Leu Leu Gly Gly Gln Ile Lys Gly Met Met Thr Val Leu Gln Gly
      130      135      140
Gly Asn
145

```

<210> 8591
 <211> 135
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8591

```

Met Ala Leu Leu Asn Ile Phe Asp Ile Ala Gly Ser Ala Leu Thr Ala
1      5      10      15
Gln Ser Lys Arg Leu Asn Val Ala Ala Ser Asn Leu Ala Asn Ala Asp
      20      25      30
Ser Val Thr Gly Pro Asp Gly Gln Pro Tyr Arg Ala Lys Gln Val Val
      35      40      45
Phe Gln Val Asp Ala Ala Pro Gly Ala Ala Thr Gly Val Lys Val
      50      55      60
Ala Asp Val Val Glu Ser Gln Ala Pro Asp Lys Leu Val Tyr Glu Pro
      65      70      75      80
Gly Asn Pro Leu Ala Asp Ala Ser Gly Tyr Val Lys Met Pro Asn Val
      85      90      95
Asp Val Val Gly Glu Met Val Asn Ser Met Ser Ala Ser Arg Ser Tyr
      100      105      110
Gln Ala Asn Val Glu Val Leu Asn Thr Val Lys Ser Met Met Leu Lys
      115      120      125
Thr Leu Thr Leu Gly Gln
      130      135

```

<210> 8592
 <211> 256
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8592

```

Arg Glu Ser Ala Met Asp His Ala Ile Tyr Thr Ala Met Gly Ala Ala
1      5      10      15
Ser Gln Thr Leu Asn Gln Gln Ala Val Thr Ala Ser Asn Leu Ala Asn
      20      25      30

```

Ala Ser Thr Pro Gly Phe Arg Ala Gln Leu Asn Ala Leu Arg Ala Val
 35 40 45
 Pro Val Glu Gly Leu Ser Leu Pro Thr Arg Thr Leu Val Thr Ala Ser
 50 55 60
 Thr Pro Gly Ala Asp Met Thr Pro Gly Gln Met Asp Tyr Thr Ala Arg
 65 70 75 80
 Pro Leu Asp Val Ala Leu Gln Gln Asp Gly Trp Leu Ala Val Gln Thr
 85 90 95
 Ala Asp Gly Gly Glu Gly Tyr Thr Arg Asn Gly Asn Ile Gln Val Ser
 100 105 110
 Ala Thr Gly Gln Leu Thr Ile Gln Gly His Pro Val Met Gly Glu Ala
 115 120 125
 Gly Pro Leu Thr Val Pro Glu Gly Ser Glu Leu Thr Ile Ala Ala Asp
 130 135 140
 Gly Thr Ile Ser Ala Leu Asn Pro Gly Asp Pro Ala Asn Thr Val Ala
 145 150 155 160
 Pro Val Gly Arg Leu Lys Leu Val Lys Ala Glu Gly Asn Glu Val Gln
 165 170 175
 Arg Gly Asp Asp Gly Met Phe Arg Leu Thr Gln Ala Ala Gln Ala Thr
 180 185 190
 Arg Gly Ala Thr Leu Gln Ala Asp Pro Thr Ile Arg Val Met Ser Gly
 195 200 205
 Val Leu Glu Gly Ser Asn Val Lys Pro Val Glu Ala Met Thr Asp Met
 210 215 220
 Ile Ala Ser Ala Arg Arg Phe Glu Met Gln Met Lys Ile Ile Ser Ser
 225 230 235 240
 Val Asp Glu Asn Ala Gly Lys Ala Asn Gln Leu Leu Ala Met Ser
 245 250 255

<210> 8593

<211> 319

<212> PRT

<213> *Enterobacter cloacae*

<400> 8593

Lys Met Arg Ile Ser Thr Gln Met Met Tyr Glu Gln Ser Met Arg Gly
 1 5 10 15
 Val Thr Asn Ser Gln Ser Leu Trp Leu Ser Tyr Gly Glu Gln Met Ser
 20 25 30
 Thr Gly Lys Arg Ile Asn Arg Pro Ser Asp Asp Pro Ile Ala Ala Ser
 35 40 45
 Gln Ala Val Val Leu Ser Gln Ala Gln Thr Gln Asn Ser Gln Tyr Ala
 50 55 60
 Leu Ala Arg Ser Phe Ala Thr Thr Lys Val Ser Leu Glu Glu Asn Val
 65 70 75 80
 Leu Ser Gln Val Thr Thr Ala Ile Gln Ala Ala Gln Glu Lys Ile Val
 85 90 95
 Asn Ala Gly Asn Gly Thr Leu Ser Asp Asp Asp Arg Ala Ser Leu Ala
 100 105 110
 Thr Asn Leu Gln Gly Ile Arg Asp Gln Leu Met Asn Leu Ala Asn Ser
 115 120 125
 Thr Asp Gly Asn Gly Arg Tyr Ile Phe Ser Gly Tyr Lys Thr Glu Ala
 130 135 140
 Ala Ala Phe Asp Gln Thr Thr Gly Asp Tyr Lys Gly Gly Thr Pro
 145 150 155 160
 Ile Ser Gln Gln Val Asp Ser Ala Arg Thr Met Gln Ile Ser His Thr
 165 170 175
 Gly Thr Glu Val Phe Asp Ser Phe Thr Ser Asn Ala Lys Pro Glu Pro
 180 185 190
 Asp Gly Ser Lys Pro Glu Thr Asn Leu Phe Lys Ile Leu Asp Ser Ala
 195 200 205

Ile Glu Ala Leu Asn Thr Pro Ile Gly Glu Asp Glu Thr Lys Ala Glu
 210 215 220
 Ala Phe Thr Ala Ala Ile Asp Lys Ala Asn Arg Gly Leu Ser Asn Ser
 225 230 235 240
 Leu Asn Asn Val Leu Thr Val Arg Ala Asp Leu Gly Ile Lys Leu Asp
 245 250 255
 Glu Leu Gly Lys Leu Asp Ala Leu Gly Glu Asp Arg Ala Leu Gly Gln
 260 265 270
 Thr Gln Gln Met Ser Asn Leu Val Asp Val Asp Trp Asn Ser Val Ile
 275 280 285
 Ser Ser Tyr Thr Met Gln Gln Ala Ala Leu Gln Ala Ser Tyr Lys Ala
 290 295 300
 Phe Ser Asp Met Gln Gly Met Ser Leu Phe Gln Met Asn Arg
 305 310 315

<210> 8594

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 8594

Arg Met Asp Gly Asn Gly Met Lys Arg Pro Glu Arg Ile Asp Arg Val
 1 5 10 15
 Glu Leu Met Arg Thr Phe Val Arg Ile Val Glu Ala Gly Ser Leu Ser
 20 25 30
 Ala Ala Ala Arg Gln Leu Ala Thr Gln Ala Thr Val Ser Arg Arg
 35 40 45
 Leu Gln Ser Leu Glu Thr Met Leu Gly Val Arg Leu Met Leu Arg Thr
 50 55 60
 Thr His Thr Thr Arg Leu Thr Asp Asp Gly Glu Arg Cys Tyr Gln His
 65 70 75 80
 Ala Arg Arg Val Ile Asp Ser Trp Leu Ala Leu Glu Asp Glu Val Gly
 85 90 95
 Gln Thr Glu Asp Glu Pro Val Gly Val Leu Arg Val Arg Ala Pro His
 100 105 110
 Ala Phe Gly Gln Asp Gln Leu Leu Lys Pro Leu Thr Glu Phe Leu Gln
 115 120 125
 Arg Tyr Pro Gln Leu Ser Val Glu Trp Met Leu Asn Asp Arg Ser Val
 130 135 140
 Asp Phe Leu Gly Asp Asn Leu Asp Cys Ala Ile Arg Val Gly Val Glu
 145 150 155 160
 Val Asp Pro Ala Thr Val Ser Val Leu Leu Ala Glu Val Pro Arg Ser
 165 170 175
 Val Val Ala Ser Pro Glu Leu Leu Ala Arg Tyr Pro Ala Val Lys Thr
 180 185 190
 Pro Glu Asp Leu Gln Gln Leu Pro Trp Ile Ala Ile Ser Ser Phe Tyr
 195 200 205
 Gln Arg His Val Glu Leu Phe His Asp Ala Ser Ser Ala Pro Thr Arg
 210 215 220
 Val Thr Ile Thr Pro Arg Leu Ser Thr Asp Ser Leu Tyr Val Ala Arg
 225 230 235 240
 Asn Thr Ala Leu Thr Gly Leu Gly Val Ala Val Val Ser Ser Trp Thr
 245 250 255
 Val Gln Asp Asp Ile Gln Glu Gly Arg Leu Val His Leu Leu Pro Glu
 260 265 270
 Trp Gln Pro Ala Ala Leu Pro Val His Leu Val Tyr Pro Trp Ser Arg
 275 280 285
 Tyr Tyr Pro Ala Arg Leu Arg Arg Phe Leu Glu Leu Met Arg Gln Ile
 290 295 300
 Met Pro Glu Val Thr Gly Met Arg Lys Pro Leu Gln Gln Pro
 305 310 315

<210> 8595

<211> 62

<212> PRT

<213> *Enterobacter cloacae*

<400> 8595

```

Gly Val Arg Ser Met Ala Val Gln Gln Asn Lys Pro Thr Arg Ser Lys
1          5          10          15
Arg Gly Met Arg Arg Ser His Asp Ala Leu Thr Ala Val Thr Ser Leu
          20          25          30
Ser Val Asp Lys Thr Ser Gly Glu Lys His Leu Arg His His Ile Thr
          35          40          45
Ala Asp Gly Phe Tyr Arg Gly Arg Lys Val Ile Thr Lys
          50          55          60

```

<210> 8596

<211> 107

<212> PRT

<213> *Enterobacter cloacae*

<400> 8596

```

Ser Arg Val Ser Val Ile Arg Leu Ser Glu Glu Leu Pro Arg Ala Asn
1          5          10          15
Gly Glu Phe Thr Glu Pro Gly Cys Asp Asp Thr Leu Thr Arg Leu Thr
          20          25          30
Leu Ala Leu Asp Val Met Gly Gly Asp Phe Gly Pro Thr Val Thr Val
          35          40          45
Ala Ala Ala Leu Gln Ala Leu Asn Ser Asn Ser Gln Leu Lys Leu Leu
          50          55          60
Leu Phe Gly Asn Pro Asp Thr Ile Thr Pro Leu Glu Lys Thr Asp
          65          70          75          80
Leu Asp Gln Arg Ser Arg Pro Gln Ile Ile Pro Gly Gln Ser Arg Met
          85          90          95
Pro Met Met Pro Gly Leu Ala Cys Phe Pro
          100          105

```

<210> 8597

<211> 404

<212> PRT

<213> *Enterobacter cloacae*

<400> 8597

```

Val Met Ala Phe Ser Gln Ala Val Ser Gly Leu Asn Ala Ala Ala Thr
1          5          10          15
Asn Leu Asp Val Ile Gly Asn Asn Ile Ala Asn Ser Ala Thr Tyr Gly
          20          25          30
Phe Lys Ser Gly Ser Ala Ser Phe Ala Asp Met Phe Ala Gly Ser Lys
          35          40          45
Val Gly Leu Gly Val Lys Val Ala Gly Ile Thr Gln Asp Phe Thr Asp
          50          55          60
Gly Thr Thr Thr Asn Thr Gly Arg Gly Leu Asp Val Ala Ile Ser Gln
          65          70          75          80
Asn Gly Phe Phe Arg Met Val Asp Ala Asn Gly Ser Val Phe Tyr Ser
          85          90          95
Arg Asn Gly Gln Phe Lys Leu Asp Glu Asn Arg Asn Leu Val Asn Met
          100          105          110
Gln Gly Leu Gln Leu Thr Gly Tyr Pro Val Ala Gly Thr Pro Pro Thr
          115          120          125
Val Gln Thr Gly Ala Asn Pro Gln Ala Ile Ser Ile Pro Thr Thr Leu
          130          135          140

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```

Met Ala Ala Lys Ser Thr Thr Thr Ala Ser Gln Gln Ile Asn Leu Asn
145          150          155          160
Ser Thr Asp Thr Ala Pro Thr Val Ala Phe Asp Pro Ala Asn Pro Asp
          165          170          175
Ser Tyr Asn Lys Lys Gly Thr Val Thr Val Phe Asp Ser Gln Gly Asn
          180          185          190
Ala His Asn Met Asn Leu Phe Tyr Val Lys Asn Ala Thr Pro Ala Asn
          195          200          205
Ser Trp Lys Val Tyr Ser Gln Asp Gly Ser Val Ala Gly Asp Ala Ala
          210          215          220
Lys Leu Ala Thr Thr Leu Thr Phe Asn Ala Ser Gly Val Leu Thr Gly
225          230          235          240
Gly Asp Asp Ile Lys Ile Thr Thr Gly Thr Val Pro Gly Ala Thr Pro
          245          250          255
Ala Thr Phe Asp Met Ser Phe Ala Asn Ser Met Gln Gln Asn Thr Gly
          260          265          270
Ala Asn Asn Ile Val Ala Thr Ser Gln Asn Gly Tyr Lys Pro Gly Asp
          275          280          285
Leu Val Ser Tyr Gln Ile Asn Asp Asp Gly Thr Val Val Gly Asn Tyr
          290          295          300
Ser Asn Glu Gln Thr Gln Val Leu Gly Gln Ile Val Leu Ala Asn Phe
305          310          315          320
Ala Asn Asn Glu Gly Leu Lys Ser Glu Gly Asp Asn Val Trp Ser Ala
          325          330          335
Thr Gln Ser Ser Gly Val Ala Leu Leu Gly Thr Ala Gly Ser Gly Asn
          340          345          350
Phe Gly Thr Leu Thr Asn Gly Ala Leu Glu Ala Ser Asn Val Asp Leu
          355          360          365
Ser Lys Glu Leu Val Asn Met Ile Val Ala Gln Arg Asn Tyr Gln Ser
          370          375          380
Asn Ala Gln Thr Ile Lys Thr Gln Asp Gln Ile Leu Asn Thr Leu Val
385          390          395          400
Asn Leu Arg

```

<210> 8598

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 8598

```

Glu Ala Gln Ser Val Gly Cys Leu Cys Phe Ile Arg Lys His Ser Ala
1          5          10          15
Ile Ile Arg Gly Ile Ala Trp Glu Asn Ser Pro Glu Asn Asn Pro Tyr
          20          25          30
Thr Gly Lys Tyr Cys Asn Pro Gln Pro Ala Asn Cys Leu Lys Asp Gln
          35          40          45
Tyr Val Leu Arg His Cys Cys Val Asp Asp Arg Ser Asp Lys Ile Gly
          50          55          60
His Ser Val Asp Ile Leu Thr Lys Pro Gly Phe Asn Ala Glu Asn Gly
65          70          75          80
Phe Ile Ile Pro Leu Leu Ala Gly Leu
          85          90

```

<210> 8599

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 8599

```

Arg Tyr Leu Glu Ser Pro Thr Met Lys Thr Glu Thr Pro Ala Val Lys

```

```

1           5           10           15
Met Val Ala Ile Ala Asp Asp Glu Ala Gly Gln Arg Ile Asp Asn Phe
20           25           30
Leu Arg Thr Gln Leu Lys Gly Val Pro Lys Ser Met Ile Tyr Arg Ile
35           40           45
Leu Arg Lys Gly Glu Val Arg Val Asn Lys Lys Arg Val Lys Pro Glu
50           55           60
Tyr Lys Leu Glu Ala Gly Asp Glu Val Arg Ile Pro Pro Val Arg Val
65           70           75           80
Ala Glu Arg Glu Glu Glu Val Val Ser Pro Lys Leu Gln Lys Val Ala
85           90           95
Ala Leu Ser Asp Val Ile Leu Tyr Glu Asp Asp His Ile Leu Val Leu
100          105          110
Asn Lys Pro Ser Gly Thr Ala Val His Gly Gly Ser Gly Leu Ser Phe
115          120          125
Gly Val Ile Glu Gly Leu Arg Ala Leu Arg Pro Glu Ala Arg Phe Leu
130          135          140
Glu Leu Val His Arg Leu Asp Arg Asp Thr Ser Gly Val Leu Leu Val
145          150          155          160
Ala Lys Lys Arg Ser Ala Leu Arg Ser Leu His Glu Gln Leu Arg Glu
165          170          175
Lys Gly Met Gln Lys Asp Tyr Leu Ala Leu Val Arg Gly Gln Trp Gln
180          185          190
Ser His Val Lys Val Val Gln Ala Pro Leu Leu Lys Asn Ile Leu Gln
195          200          205
Ser Gly Glu Arg Ile Val Arg Val Asn Gln Glu Gly Lys Pro Ser Glu
210          215          220
Thr Arg Phe Lys Val Glu Glu Arg Tyr Glu Phe Ala Thr Leu Val Arg
225          230          235          240
Cys Ser Pro Val Thr Gly Arg Thr His Gln Ile Arg Val His Thr Gln
245          250          255
Phe Ala Gly His Pro Ile Ala Phe Asp Asp Arg Tyr Gly Asp Arg Glu
260          265          270
Phe Asp Lys Gln Leu Ala Gly Thr Gly Leu Ser Arg Leu Phe Leu His
275          280          285
Ala Ala Ala Leu Lys Phe Thr His Pro Asn Thr Gly Glu Val Ile Arg
290          295          300
Ile Glu Ala Pro Leu Asp Glu Gln Leu Lys Arg Cys Leu Lys Val Leu
305          310          315          320
Arg Gly

```

<210> 8600

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 8600

```

His Tyr Leu His Asn Phe Met Arg Thr Arg Thr Glu Asn Leu Thr Asp
1           5           10           15
Val Val Ala Pro Lys Ala Asn Trp Ser Leu Ala Leu Gly Ala Gly Leu
20           25           30
Leu Gly Ile Gly Gln Asn Gly Leu Leu Val Met Leu Pro Gln Leu Val
35           40           45
Ser Leu Thr Gly Leu Ser Leu Ser Val Trp Ala Gly Leu Leu Met Phe
50           55           60
Gly Ser Met Leu Phe Leu Pro Ala Ser Pro Trp Trp Gly Arg Gln Ser
65           70           75           80
Glu Arg His Gly Cys Lys Ile Val Met Leu Ala Ser Leu Gly Gly Tyr
85           90           95
Leu Ala Ser Phe Val Val Met Ala Leu Val Val Trp Ala Met Ala Asn

```

100 105 110
 Gly Ala Leu Asn Ala Leu Trp Gly Met Ala Gly Leu Val Leu Ser Arg
 115 120 125
 Met Leu Tyr Gly Leu Thr Val Ser Gly Leu Val Pro Ala Ala Gln Thr
 130 135 140
 Trp Ala Ile Gln Arg Ala Gly Leu Asp Lys Arg Met Ala Ala Leu Ala
 145 150 155 160
 Thr Ile Ser Ser Gly Leu Ser Cys Gly Arg Leu Leu Gly Pro Pro Leu
 165 170 175
 Ala Ala Leu Met Leu Gly Val Ser Pro Val Ala Pro Leu Trp Leu Met
 180 185 190
 Ala Leu Ala Pro Leu Ile Ala Leu Leu Leu Val Leu Arg Glu Ala Ala
 195 200 205
 Asp Pro Pro Leu Pro Pro Val Ala His Gln Ser Thr Arg Leu Gln Ala
 210 215 220
 Ser Met Leu Pro Phe Leu Val Leu Ala Leu Leu Ala Ala Leu Val
 225 230 235 240
 Ser Leu Met Gln Leu Gly Leu Ser Pro His Leu His Pro Leu Phe Asn
 245 250 255
 Gly Asp Val Val Gln Ile Ser His His Val Ala Leu Leu Leu Ser Leu
 260 265 270
 Ala Ala Leu Ala Thr Leu Ala Ala Gln Phe Leu Val Val Arg Pro Gln
 275 280 285
 His Phe Thr Pro Arg Val Leu Leu Leu Ile Ala Ala Val Leu Met Val
 290 295 300
 Ala Gly Leu Gly Leu Met Ser Leu Ala Ser Leu Ala Leu Phe Tyr Val
 305 310 315 320
 Gly Ile Val Ile Thr Ser Leu Gly Ala Ala Met Ala Thr Pro Gly Tyr
 325 330 335
 Gln Leu Leu Leu Asn Asp Arg Leu Thr Thr Gly Lys Gly Ala Gly Val
 340 345 350
 Ile Ala Thr Ser His Thr Leu Gly Tyr Gly Ala Ser Ala Leu Leu Val
 355 360 365
 Pro Val Val Thr Arg Phe Tyr Gly Glu Gln Phe Leu Ile Thr Ala Ala
 370 375 380
 Trp Gly Met Ala Leu Leu Phe Leu Ala Val Ser Val Trp Val Arg Ser
 385 390 395 400
 Thr Asp Arg Thr Pro
 405

<210> 8601

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 8601

Pro Ser Ile Pro Ile Pro Ala Cys Trp Thr Ala Thr Thr Thr Tyr Cys
 1 5 10 15
 Arg Glu Arg Leu Leu Arg Val Arg Leu Ser Gly Ala Ser Thr Ala Val
 20 25 30
 Thr Ala Ser Ala Val Met Arg Trp Gln Ile Ser Leu Phe Leu Val Arg
 35 40 45
 Leu Gln Asp Ile Arg Arg Leu Cys Val Arg Lys His Gly Lys Ala Pro
 50 55 60
 Val Ser Pro Ala Ala Arg Cys Leu Pro Gly Leu His Leu Arg Thr His
 65 70 75 80
 Ala Met Pro Asp Ser His Arg Val Tyr Ser Tyr Ser Ala Val Leu Met
 85 90 95
 Gly Ser Pro Ile Leu Leu Lys Leu Phe Ser His Asp Glu Ala Leu Ala
 100 105 110
 Ser Arg Val Phe Arg Leu Ile Lys Gln Tyr Glu Asp Leu Leu Thr Val

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      115              120              125
Asn Arg Ala His Ser Gln Val Met Asp Ile Asn His Ala Ala Gly Gln
130              135              140
His Pro Val Ala Val Ser Arg Pro Val Phe Glu Leu Ile Arg Cys Ala
145              150              155              160
Lys Ala Ala Ser Leu Leu Lys Asp Ser Ala Phe Asn Leu Ala Ile Gly
      165              170              175
Pro Leu Val Lys Cys Trp Lys Ile Gly Phe Lys Gly Asp Ala Val Pro
      180              185              190
Pro Ala Asp Glu Ile Ala Ala Leu Met Gly Ile Thr Asp Pro Ala Asp
195              200              205
Val Val Leu Asp Glu Ala Asn Ser Ser Val Phe Leu Thr Arg Gln Gly
210              215              220
Met Glu Ile Asp Leu Gly Ala Ile Ala Lys Gly Tyr Ile Ala Asp Arg
225              230              235              240
Val Arg Asp Tyr Leu His Lys Glu Gly Ala Glu Leu Gly Leu Ile Asn
      245              250              255
Leu Gly Gly Asn Val Gln Thr Leu Gly Ser Pro Glu Gly Gly Trp Arg
      260              265              270
Val Gly Leu Lys Lys Pro Phe Ala Gly Asp Ala Leu Ile Gly Ala Met
275              280              285
Thr Val Glu Asn Arg Ser Val Val Thr Ser Gly Thr Tyr Glu Arg Tyr
290              295              300
Phe Glu Gln Asn Gly Lys Arg Tyr His His Ile Leu Asp Pro Arg Thr
305              310              315
Gly Tyr Pro Leu Asp Asn Glu Leu Asp Ser Val Thr Ile Ile Ser Pro
      325              330              335
Asp Ser Leu Asp Gly Asp Ile Trp Thr Thr Leu Ile Tyr Gly Met Gly
      340              345              350
Val Glu Lys Gly Cys Ala Ala Leu Arg Ser Arg Pro Asp Ile Glu Ala
355              360              365
Ile Phe Val Thr Lys Thr Lys Glu Val Val Ile Ser Ser Met His His
370              375              380
Phe Arg Phe Thr Leu Leu Asp Asp Ser Tyr Arg Ile Thr Gly Ser Thr
385              390              395              400
Ala

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<210> 8602

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 8602

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His Ser Ala Met Lys Lys Lys Gly Leu Ile Ile Ala Asp Asp Gly Arg
1      5      10      15
Phe Ile Lys Pro Cys Lys Glu Arg Arg Phe Val Ser Leu Leu Ser Gly
20      25      30
Asp Leu Tyr Lys Thr Leu Tyr Ser Val Trp Val Leu Ile Ile Arg Arg
35      40      45
Gln Phe Met Ser Ile Met Leu Thr Gly Thr Ala Arg Glu Arg Arg His
50      55      60
Ala Ser Thr Met Asn Ile Asp Arg Leu Ser Thr Leu Asp Met Leu Asn
65      70      75      80
Val Ile His Gln Asp Asp Ala Gln Ile Thr Ser Ala Leu Thr Pro His
85      90      95
Leu Ser Met Leu Ala Arg Val Val Asp Asn Ala Ala Ala Thr Leu Ser
100      105      110
His Gly Gly Arg Leu Val Leu Thr Gly Ala Gly Ala Ser Gly Arg Met
115      120      125
Ala Glu Gln Ala Ala Glu Ala Phe Ala Pro Gly Lys His Pro Val Ile

```


130	135	140
Ala Met Thr Ala Gly Asp	Asn Ala Gly Ser Tyr Ala Ser Gly Val Ala	
145	150	155
Asp Leu Gln Thr Ile Glu Phe Gly Glu His	Asp Met Met Leu Ala Leu	160
165	170	175
Ser Val Ser Gly Lys Thr Pro Trp Val Trp Gly Ala Met Arg His Ala		
180	185	190
Trp Ser Leu Gly Ser Thr Val Ala Leu Ile Thr Glu Asp Ala Gln Ser		
195	200	205
Glu Ala Ala Gln Leu Ala Ser Met Val Ile Ala Pro Asp Leu Gly Ala		
210	215	220
Asp Val Val Ala Gly Tyr Thr Asn Ala Lys Ala Gly Ile Ala Gln Ser		
225	230	235
Met Ile Leu His Met Ile Thr Thr Gly Leu Ala Val Arg Thr Gly Arg		
245	250	255
Val Tyr Ser Asn Leu Arg Val Asp Leu Glu Ala Ser Asn Thr Arg Trp		
260	265	270
Ala Glu Arg Gln Ile Ala Ile Val Met Glu Ala Gly Gly Cys Ser Arg		
275	280	285
Ala Gln Ala Lys Ala Ala Leu Glu Ser Cys Asn His Gln Cys Lys Thr		
290	295	300
Ala Val Leu Met Val Leu Thr Gly Leu Asn Ala Trp Lys Ala His Glu		
305	310	315
Leu Leu Ala Gln Asn Asn Gly Phe Val Arg Leu Ala Leu Gln Glu Ala		
325	330	335
Pro		

<210> 8603

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 8603

Pro Ile Ser Val Ala Val Cys Asp Pro Glu Leu Trp Tyr Ser Val Phe	
1	5
Cys Leu Tyr Cys Pro Val Lys Arg Met Gln Glu Asn Arg Ser Val Thr	10
	15
20	25
Val Pro Ala Pro Glu Arg Val Glu Lys Ser Thr Ala Ala Val Gln Ala	30
35	40
Leu Leu Arg Gln Leu Leu Glu Met Tyr Asp Ala Lys Thr Leu Ala Asn	45
50	55
Gln Leu Val Ala His Gly Glu Ser His Trp Ser Pro Ala Ile Leu Lys	60
65	70
Arg Leu Leu Ile Ser Asp Arg Ala Gly His Arg Leu Ser Asp Gly Glu	75
	80
85	90
Phe Arg Tyr Leu Arg Asn Leu Leu Pro Arg Pro Pro Ala Ala His Pro	95
100	105
Asn Tyr Ala Phe Arg Phe Ile Asp Leu Phe Ala Gly Ile Gly Gly Ile	110
115	120
Arg His Gly Phe Glu Ala Ile Gly Gly Gln Cys Val Phe Thr Ser Glu	125
130	135
Trp Asn Lys His Ala Val Arg Thr Tyr Lys Ala Asn Trp Tyr Cys Asp	140
145	150
Pro Asp Ala His Gln Phe Asn Ala Asp Ile Arg Asp Val Thr Leu Ser	155
	160
165	170
His Lys Thr Gly Val Ser Asp Glu Glu Ala Ala Glu His Ile Arg Asn	175
180	185
Thr Ile Pro Ala His Asp Val Leu Leu Ala Gly Phe Pro Cys Gln Pro	190
195	200
Phe Ser Leu Ala Gly Val Ser Lys Lys Asn Ala Leu Gly Arg Ala His	205

210 215 220
 Gly Phe Ala Cys Asp Thr Gln Gly Thr Leu Phe Phe Asp Val Ala Arg
 225 230 235 240
 Ile Ile Asp Ala Arg Arg Pro Ala Ile Phe Val Leu Glu Asn Val Lys
 245 250 255
 Asn Leu Lys Ser His Asp Gly Gly Lys Thr Phe Arg Ile Ile Met Gln
 260 265 270
 Thr Leu Asp Glu Leu Gly Tyr Asp Val Ala Asp Ala Glu Asp Met Gly
 275 280 285
 Pro Asp Asp Pro Lys Ile Ile Asp Gly Lys His Phe Leu Pro Gln His
 290 295 300
 Arg Glu Arg Ile Val Leu Val Gly Phe Arg Arg Asp Leu Asn Leu Lys
 305 310 315
 Gly Asp Phe Thr Leu Arg Asp Leu Pro Ser Leu Tyr Pro Ala Arg Arg
 325 330 335
 Pro Thr Val Ala Asp Leu Leu Glu Pro Ala Val Asp Ala Lys Phe Ile
 340 345 350
 Leu Thr Pro Val Leu Trp Lys Tyr Leu Tyr Arg Tyr Ala Lys Lys His
 355 360 365
 Gln Ala Lys Gly Asn Gly Phe Gly Phe Gly Met Val Asn Pro Leu Asn
 370 375 380
 Pro Asp Ser Val Thr Arg Thr Leu Ser Ala Arg Tyr Tyr Lys Asp Gly
 385 390 395 400
 Ala Glu Ile Leu Ile Asp Arg Gly Trp Asp Lys Ala Leu Gly Glu Lys
 405 410 415
 Asp Phe Asp Asp Pro Gln Asn Gln Gln His Arg Pro Arg Arg Leu Thr
 420 425 430
 Pro Arg Glu Cys Ala Arg Leu Met Gly Phe Glu Thr Pro Gln Gly Tyr
 435 440 445
 Ser Phe Arg Ile Pro Val Ser Asp Thr Gln Ala Tyr Arg Gln Phe Gly
 450 455 460
 Asn Ser Val Val Val Pro Ala Phe Ala Ala Val Ala Lys Leu Leu Ala
 465 470 475
 Ser Arg Ile Ser Lys Ala Val Gln Leu Arg Gln Ser Glu Ala Val Asn
 485 490 495
 Gly Gly Arg Ser Gln
 500

<210> 8604

<211> 321

<212> PRT

<213> *Enterobacter cloacae*

<400> 8604

Val Leu Phe His Thr Ile His Leu Ile Ser Lys Lys Arg Arg Ile Glu
 1 5 10 15
 Ile Leu Ala Gly Ser Ser Leu Leu Thr Leu Leu Asp Asp Ile Ala Thr
 20 25 30
 Leu Leu Asp Asp Ile Ser Val Met Gly Lys Leu Ala Ala Lys Lys Thr
 35 40 45
 Ala Gly Val Leu Gly Asp Asp Leu Ser Leu Asn Ala Gln Gln Val Ser
 50 55 60
 Gly Val Arg Ala Asn Arg Glu Leu Pro Val Val Trp Gly Val Ala Lys
 65 70 75 80
 Gly Ser Phe Ile Asn Lys Val Ile Leu Val Pro Leu Ala Leu Leu Ile
 85 90 95
 Ser Ala Phe Ile Pro Trp Ala Ile Thr Pro Leu Leu Met Ile Gly Gly
 100 105 110
 Ala Phe Leu Cys Phe Glu Gly Ala Glu Lys Val Leu His Met Phe Ala
 115 120 125
 Ala Arg Lys Glu Lys Asp Thr Pro Glu Met Arg Gln Gln Arg Leu Glu

130	135	140
Ala Leu Ala Ala Gln Asp	Pro Lys Thr Phe Glu Arg Asp Lys Val Lys	
145	150	155
Gly Ala Ile Arg Thr Asp Phe Ile Leu Ser	Ala Glu Ile Val Ala Ile	
165	170	175
Thr Leu Gly Ile Val Ser Glu Ala Pro Leu Met Asn Gln Val Leu Ile		
180	185	190
Leu Ser Gly Ile Ala Ile Leu Val Thr Ile Gly Val Tyr Gly Leu Val		
195	200	205
Gly Leu Ile Val Lys Leu Asp Asp Ile Gly Phe Trp Leu Glu Lys Lys		
210	215	220
Ser Ser Ala Ile Ala Arg Gly Ile Gly Lys Ser Leu Leu Val Val Ala		
225	230	235
Pro Trp Leu Met Lys Thr Leu Ser Val Val Gly Thr Leu Ala Met Phe		
245	250	255
Leu Val Gly Gly Gly Ile Ile Val His Gly Val Ala Ser Leu His His		
260	265	270
Met Ile Glu His Phe Ala Ser Gly Gln Gly Ala Val Val Ala Ala Ile		
275	280	285
Leu Pro Thr Leu Leu Asn Leu Val Leu Gly Phe Ile Val Gly Leu Ile		
290	295	300
Val Val Ala Val Val Lys Leu Val Glu Lys Val Arg Gly Lys Ser His		
305	310	315
		320

<210> 8605

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 8605

Phe Ser Tyr Leu Ser Arg Leu Ala Gln Glu Gly Leu Gln Phe Lys Asn	
1	5
Leu Arg Pro Ile Ile Lys Asn Ala Leu Trp Gly Lys Ile Pro Arg Lys	
20	25
Asn Arg Val Glu Asn Asp Val Ala Ser Leu Ile Tyr Ser Phe Ala Gln	
35	40
Leu Glu Ala Phe Thr Ala Val Ala Glu His Gly Ser Leu Met Lys Ala	
50	55
Ala Ser Lys Leu Gly Lys Asp Arg Thr Thr Leu Arg Asp Leu Ile Asp	
65	70
Phe Leu Glu Asp Gly Leu Gly Tyr Ala Leu Phe Leu Arg Glu Gly Arg	
85	90
Ser Leu Arg Leu Thr Pro Glu Gly Glu Gln Leu Gln Arg Gln Ala His	
100	105
Leu Leu Met Arg Gln Val Lys Ala Phe Glu Ala Phe Ala Arg Thr Val	
115	120
Pro Asp Ser Ala Thr Gln Asp Ile Ala Leu Val Tyr Asp Pro Phe Thr	
130	135
Pro Arg Ala Phe Leu Gln Ala Leu Ile Ala Thr Leu Ala Thr Lys Lys	
145	150
Thr Arg Leu Ser Leu Thr Ser Ala Ser Arg Asp Glu Ala Glu Ala Met	
165	170
Leu Ala Asn Gly Gln Ala Asp Leu Gly Ile Cys Gln Ala Arg Asn Arg	
180	185
Ser Val Gly Asn Glu Met Glu Trp Arg Ala Leu Gly Ala Ile Glu Met	
195	200
Asp Phe Tyr Ala Ala Thr Ala Leu Phe Ala Glu Val Ala Ser Pro Val	
210	215
Ser Leu Leu Asp Leu Ser Leu Val Pro Gln Val Val Met His Ala Ala	
	220

225	Ser	Asp	Glu	Pro	Val	230	Ala	Arg	Arg	Leu	Gln	235	Ile	Ser	Gly	His	Thr	240	Leu
					245						250						255		
Phe	Thr	Asn	Glu	Leu	Glu	Met	Leu	Arg	265	Gly	Leu	Leu	Glu	Gln	Gly	Cys			
			260												270				
Gly	Trp	Gly	Phe	Leu	Pro	Thr	His	Leu	His	Ala	Thr	Gln	Trp	Lys	Asn				
		275					280						285						
Val	Lys	Arg	Leu	Pro	Thr	Glu	Val	Gly	Ser	Gln	Gly	Ile	Ser	Gln	Thr				
			290				295					300							
Met	Val	Thr	Ile	Trp	Lys	Pro	Gly	Ser	Asp	Lys	Arg	Gly	Leu	Ile	Asn				
					310					315					320				
Asp	Thr	Leu	Ser	Gln	Leu	Pro	Ala	Leu	Trp	Lys	Arg	Ser	Ala	Leu					
				325						330					335				

<210> 8606

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 8606

[illegible]

<210> 8607

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 8607

Pro	Leu	Phe	Tyr	Arg	Cys	Pro	Asp	Phe	Phe	His	Ser	Pro	Asp	Leu	Ala
1			5					10					15		
Arg	Ser	Cys	Gly	Thr	Gly	Arg	Cys	Leu	Tyr	Leu	Gln	Pro	Ser	Val	Thr
			20					25				30			
Ile	Trp	Lys	Arg	Leu	Pro	Val	Arg	Trp	Thr	Asp	Ser	Phe	Ser	Ser	Ala
			35				40					45			
Ser	Ile	Lys	Cys	Cys	Phe	Phe	Ala	Thr	Ala	Gly	Met	Met	Arg	Trp	Asp
			50			55				60					
Thr	Pro	Leu	Ala	Phe	Gly	Ala	Leu	His	Asp	Ala	Val	Lys	Arg	Phe	Ala
65				70						75				80	

Gln Leu Arg Thr Ser Pro Thr Trp Gln Ile Ala Val Asp Lys Arg Arg
 85 90 95
 Thr Leu Pro Ile Asn Gly Val Ser Asp Ala Phe Val Glu Lys Thr Thr
 100 105 110
 Leu Leu Asn Arg Asp Asp Glu Tyr Leu Asn Asp Asn Glu Leu Ser Ala Ala
 115 120 125
 Leu Glu Val Gly Tyr Leu Leu Arg Leu Ala Ser Ser Pro Ser Arg Asn
 130 135 140
 Glu Glu Arg Val Ile Tyr Val Ser Arg Ala Gly Phe Phe Leu Glu Thr
 145 150 155 160
 Asp Thr Pro Gly Asn Ser Ser Asp Ile Val Gln Arg Tyr Tyr His Leu
 165 170 175
 Val Thr Gln Pro Trp Phe Thr Gln Gln Ser Glu Arg Glu Asn Arg Ala
 180 185 190
 Arg Ala Val Arg Trp Phe Ile Ser Pro Pro Ser Ser Phe Val Gly Lys
 195 200 205
 Lys Pro Leu Ile Thr Ala Ser Val Pro Val Tyr Tyr His His Val Trp
 210 215 220
 Tyr Gly Val Val Ala Met Asp Phe Thr Phe Ala Thr Leu Arg Arg Leu
 225 230 235 240
 Leu Val Glu Ala Val Gly Asp Asn Pro Glu Gly Glu Tyr Gln Leu Tyr
 245 250 255
 Asp Ser Arg Leu Thr Leu Leu Ala Thr Ser Glu Ser Pro Ala Val Asp
 260 265 270
 Val Asn His Phe Asp Ala Arg Glu Leu Ala Gln Ile Ala His Ala Ile
 275 280 285
 Glu Ser Asp Ser Glu Gly Gly Ile Arg Leu Gly Ser Arg Phe Val Ser
 290 295 300
 Trp Glu Arg Leu Asp His Phe Asp Gly Val Ile Leu Arg Val His Thr
 305 310 315 320
 Leu Asp Glu Gly Val Arg Gly Asp Phe Gly Ser Ile Ser Ile Val Leu
 325 330 335
 Ala Leu Leu Trp Ala Leu Phe Thr Ala Met Leu Leu Ile Ser Trp Leu
 340 345 350
 Val Ile Arg Arg Met Val Ser Asn Met Tyr Ser Met Gln Asn Ser Leu
 355 360 365
 Gln Trp Gln Ala Trp His Asp Pro Leu Thr Arg Leu His Asn Leu His
 370 375 380
 His Glu Ala Gly Ala Ile Arg Asn Tyr Asn
 385 390

<210> 8608

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 8608

Ile Ser Ser Tyr Pro Thr Met Leu Lys Asp Pro Val Ser Met Pro Val
 1 5 10 15
 Asn Phe Asp Leu Asn Asp Leu Tyr Ala Phe Arg Ala Leu Leu Glu Tyr
 20 25 30
 Gly Asn Phe Arg Leu Ala Ala Glu Ser Ile Cys Leu Ser Gln Ser Ala
 35 40 45
 Leu Ser Arg Arg Ile Glu Lys Leu Glu Ala Ala Leu Gly Thr Lys Leu
 50 55 60
 Phe Asp Arg Thr Thr Arg Arg Val Thr Leu Thr Leu Tyr Gly Gln Thr
 65 70 75 80
 Phe Ala Asp Arg Cys Gly Gln Leu Leu Ala Asp Val Glu Ser Met Leu
 85 90 95
 Ser Asp Ile Asp Lys Ala Ser Glu Glu Arg Thr Gly Leu Ile Thr Val
 100 105 110

Ala Thr Val Pro Ser Ala Ala Cys Tyr Phe Met Pro Asp Val Ile Arg
 115 120
 Arg Phe Gln Ser Arg Tyr Pro Arg Val Arg Ile Lys Leu Ile Asp Ser
 130 135 140
 Ser Ala Gly Asn Val Ile Glu Ala Val Thr Arg Gly Gln Ala Asp Phe
 145 150 155 160
 Gly Ile Cys Phe Ala Arg Ser Leu Gln Pro Asp Ile Glu Phe Val Pro
 165 170 175
 Leu Val Glu Asp Val Tyr Val Ala Ala Cys Arg Arg Asp Ser Pro Leu
 180 185 190
 Ala Lys Arg Lys Ser Leu Thr Trp Gln Ala Phe Tyr Gln Gln Asp Tyr
 195 200 205
 Ile Gly Leu Asp Lys Thr Ser Gly Asn Arg Asn Leu Leu Asp Gln Arg
 210 215 220
 Val Gly His Ile Arg Pro Glu Arg Pro Ser Ile Cys Glu Thr Arg His
 225 230 235 240
 Val Thr Thr Met Leu Gly Met Val Glu Ala Gly Ile Gly Ile Ala Ala
 245 250 255
 Val Pro Ala Met Ser Met Pro Arg Ala Glu His Ser Leu Leu Thr Ser
 260 265 270
 Val Pro Leu Thr Glu Pro Glu Val Arg Arg Thr Val Gly Leu Ile Arg
 275 280 285
 Arg Arg Gly Arg Ile Gln Ser Tyr Ile Ala Ala Glu Leu Glu Thr Leu
 290 295 300
 Ile Thr Glu Gln Tyr Arg Glu Val His
 305 310

<210> 8609

<211> 935

<212> PRT

<213> Enterobacter cloacae

<400> 8609

Phe Leu Lys Phe Gly Val Ser Ile Met Ser Thr Asn Glu Arg Ile Leu
 1 5 10 15
 Ser Pro Phe Thr Leu Pro Asn Gly Thr Glu Lys Asn Arg Leu Leu
 20 25 30
 Met Ala Pro Met Thr Thr Cys Thr Gly Tyr Tyr Asp Gly Thr Val Thr
 35 40 45
 Ser Glu Leu Val Glu Tyr Tyr Arg Ala Arg Ala Gly Ser Ile Gly Thr
 50 55 60
 Ile Ile Val Glu Cys Cys Phe Val Asp Asp Leu Gly Leu Ala Phe Pro
 65 70 75 80
 Gly Ala Ile Gly Ile Asp Asn Asp Glu Lys Ile Ala Gly Leu Ala Lys
 85 90 95
 Ile Ala Asp Val Ile Lys Ser Lys Gly Ser Lys Ala Leu Leu Gln Ile
 100 105 110
 Tyr His Gly Gly Arg Met Val Asp Pro Lys Leu Ile Gly Gly Arg Thr
 115 120 125
 Pro Val Gly Pro Ser Ala Val Ala Ala Pro Arg Asp Gly Ala Ala Thr
 130 135 140
 Pro Val Ala Leu Thr Ala Glu Glu Val Glu Gly Met Ile Gly Lys Phe
 145 150 155 160
 Gly Glu Ala Val Arg Arg Ala Ile Gln Ala Gly Phe Asp Gly Val Glu
 165 170 175
 Ile His Gly Ala Asn Thr Tyr Leu Ile Gln Phe Phe Ser Pro Asn
 180 185 190
 Ser Asn Gln Arg Asp Asp Glu Trp Gly Gly Ser Arg Glu Asn Arg Ala
 195 200 205
 Lys Phe Pro Leu Ala Val Leu Asp Ile Thr His Lys Met Val Arg Gln
 210 215 220

Tyr Ala Asp Asp Ala Phe Ile Ile Gly Tyr Arg Phe Ser Pro Glu Glu
 225 230 235 240
 Leu Glu Val Pro Gly Ile Arg Phe Glu Asp Thr Leu Tyr Leu Leu Glu
 245 250 255
 Lys Leu Ala Ala Arg Gly Val Asp Tyr Leu His Phe Ser Leu Gly Asp
 260 265 270
 Ala Leu Arg Pro Ser Ile Val Asp Thr Gln Asp Pro Thr Pro Leu Ile
 275 280 285
 Glu Lys Tyr Cys Ala Met Arg Ser Asp Thr Leu Ala Gln Val Pro Val
 290 295 300
 Met Gly Val Gly Gly Val Val Asn Ala Thr Asp Val Asn Glu Ala Leu
 305 310 315 320
 Asp His Gly Tyr Asp Leu Ile Ala Val Gly Arg Ala Thr Ile Ala Tyr
 325 330 335
 Pro Asp Trp Thr Asp Arg Ile Ala Ala Gly Glu Ser Leu Glu Leu Phe
 340 345 350
 Met Asp Ser Thr Arg Arg Glu Glu Leu Ser Ile Pro Glu Pro Leu Trp
 355 360 365
 Arg Phe Ser Leu Val Glu Ala Met Ile Arg Asp Met Ser Met Gly Glu
 370 375 380
 Ser Lys Phe Lys Pro Gly Thr Phe Ile Glu Lys Val Gln Asp Asp Ala
 385 390 395 400
 Asn Glu Leu Val Ile Asn Val Ser Leu Glu Thr Asp Arg Ile Ala Asp
 405 410 415
 Ile Glu Leu Ala Ser Gly Pro Ser Glu Asp Val Glu Phe Val Thr Ser
 420 425 430
 Phe Glu Glu Ile Arg Ser Arg Ile Leu Asp Ala Asn Thr Pro His Val
 435 440 445
 Asp Ala Ile Thr Gly Ala Thr Ser Gln Ser Glu Ala Val Lys Lys Ala
 450 455 460
 Val Ser Lys Ala Met Leu Lys Ser Ser Lys Ala Leu Ala Ala Glu Glu
 465 470 475 480
 Gly Ala Asp Pro Asn Glu Thr Lys Ser Val Asp Val Val Val Gly
 485 490 495
 Ser Gly Gly Ala Gly Leu Ala Ala Ala Ile Gln Ala His Asp Glu Gly
 500 505 510
 Ala Ser Val Leu Ile Val Glu Lys Met Pro Thr Ile Gly Gly Asn Thr
 515 520 525
 Ile Lys Ala Ser Ala Gly Met Asn Ala Ala Glu Thr Arg Phe Gln Arg
 530 535 540
 Val Lys Gly Ile Gln Asp Ser Lys Glu Leu Phe Tyr Gln Glu Ser Leu
 545 550 555 560
 Lys Gly Gly Gly Asn Lys Asn Asn Pro Glu Leu Leu Arg Arg Phe Val
 565 570 575
 Glu Asn Ala Pro Gln Ala Ile Glu Trp Leu Ala Thr Arg Gly Ile Met
 580 585 590
 Leu Asn Asp Ile Thr Thr Thr Gly Gly Met Ser Ile Asp Arg Thr His
 595 600 605
 Arg Pro Lys Asp Gly Ser Ala Val Gly Gly Tyr Leu Ile Ser Gly Leu
 610 615 620
 Val Arg Asn Val Asn Lys Arg Asn Ile Glu Val Met Leu Asp Thr Ser
 625 630 635 640
 Val Ser Asp Ile Ile Phe Glu Asn Gly Glu Val Thr Gly Val Arg Leu
 645 650 655
 Thr Thr Glu Glu Asn Glu Thr Leu Thr Val Ala Thr Lys Ser Val Ile
 660 665 670
 Val Ala Thr Gly Gly Phe Ser Ala Asn Ser Glu Met Val Val Lys Tyr
 675 680 685
 Arg Pro Asp Leu Ala Gly Phe Val Thr Thr Asn His Lys Gly Ala Thr
 690 695 700
 Gly Gly Gly Ile Ala Leu Leu Glu Arg Ile Gly Ala Gly Thr Val Asp

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<210> 8610
<211> 257
<212> PRT
<213> Enterobacter cloacae
```

1	Thr	Leu	Leu	5	Ile	Leu	Ile	Arg	Met	10	Tyr	Tyr	Asn	Ser	Leu	Ser
Phe	Glu	Gln	Gln	Asp	Gly	Met	Met	Glu	Leu	25	Ala	Gln	Trp	Gln	His	Arg
Tyr	Glu	Arg	Trp	Leu	Asp	Glu	Asn	His	Phe	40	Thr	Asp	Asp	Ala	Ala	His
Asp	Ile	Ala	His	Phe	Arg	Arg	Val	Trp	Met	45	Thr	Ala	Gln	Gly	Ile	Met
Ala	Asp	Glu	Asp	Ser	Asp	Pro	Leu	Val	Val	60	Leu	Thr	Arg	Cys	Tyr	Phe
65	His	Asp	Ile	Val	Ser	Leu	Pro	Lys	Asn	75	Pro	Glu	Arg	Ser	His	Ser
His	Asp	Ile	Val	Ser	85	Leu	Pro	Lys	Asn	90	Pro	Glu	Arg	Ser	His	Ser
Ser	Arg	Leu	Ala	Ala	Arg	Lys	Thr	Arg	Glu	105	Ile	Leu	Ser	Arg	Asp	Phe
Pro	Asp	Phe	Pro	Pro	Asp	Arg	Tyr	Ala	Ala	115	Val	Glu	His	Ala	Ile	Glu
Ala	His	Ser	Phe	Ser	Ala	Gly	Ile	Ala	Pro	120	Gln	Ser	Leu	Glu	Ala	Lys
Ile	Val	Gln	Asp	Ala	Asp	Arg	Leu	Glu	Ala	135	Leu	Gly	Ala	Ile	Gly	Leu
145	Ala	Arg	Val	Phe	Ala	Val	Ser	Gly	Ala	150	Leu	Gly	Ala	Ala	Leu	Phe
Ala	Asp	Asp	Pro	Phe	Ala	Gly	Thr	Arg	Ala	165	Leu	Asp	Asp	Lys	Ala	Phe
Ala	Leu	Asp	His	Phe	Gln	Thr	Lys	Leu	Leu	180	Arg	Leu	Pro	Asp	Thr	Met

195										200					205				
Gln	Thr	Ala	Arg	Gly	Arg	Lys	Leu	Ala	Arg	His	Asn	Ala	Asp	Phe	Leu				
	210					215					220								
Ile	Gln	Phe	Met	Ala	Lys	Leu	Ser	Ala	Glu	Leu	Gln	Gly	Asp	Tyr	Leu				
	225				230					235					240				
Gly	Thr	Asp	Ser	Gln	Ile	Leu	Thr	His	Phe	Arg	Arg	Ser	Val	Arg	Ser				
				245					250					255					

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<210> 8611
<211> 71
<212> PRT
<213> Enterobacter cloacae
```

```

400> 8611
1  Lys Arg Phe Thr Leu Ile Gln Glu Ala Gly Met Val Phe Leu Ile Ser
   5
Asp Glu Val Lys Pro Lys Asn Gly Gly Pro Gly Met Ile Val Thr Gly
   20 25
Tyr Ser Ser Gly Met Val Glu Cys Arg Trp His Asp Gly Tyr Gly Ile
   35 40 45
Lys Arg Glu Ala Phe Arg Glu Asp Glu Leu Gln Pro Ala Asn Lys Arg
   50 55 60 65
Gln Lys Arg Asp Lys Ala
   70

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```
<210> 8612
<211> 86
<212> PRT
<213> Enterobacter cloacae
```

```

400> 8612
Ser His Asn Ala Arg Pro Cys Arg Ala Phe Leu Leu Ala Glu Asp Leu
1      5      10      15
Ser Tyr Arg Met Val Ser Asp Asn Gln Gly Val Cys Val Gln His Asp
20      25      30
Thr Phe Val Val Lys Gln Ser Phe Leu Gln Trp Leu His Lys Arg Ser
35      40      45
Asn Pro Ser Ser Leu Ile Val Asn Leu Cys Phe Ile Val Val Leu Ile Phe
50      55      60
Ser Thr Leu Leu Thr Trp Arg Glu Val Val Val Leu Glu Asp Ala Tyr
65      70      75      80
Ile Ser Ser Pro Ala
85

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<210> 8613
<211> 173
<212> PRT
<213> Enterobacter cloacae
```

4200> 8613																
1	Ala	Pro	Arg	Ser	Val	Leu	Leu	Val	Leu	Trp	Ile	Val	Glu	Ile	Phe	Phe
				5						10					15	
4	Ala	Gln	Arg	Leu	Ile	Pro	Ala	Pro	Ile	Asp	Lys	Asn	Phe	Arg	Ala	Ile
			20						25					30		
Phe	Val	Ile	Ala	Arg	Arg	Gln	Arg	Thr	Arg	His	Ala	Val	Arg	Ile	Lys	
		35					40					45				
Arg	Ile	Asp	His	Ala	Lys	Pro	Lys	Ala	Ile	Ala	Phe	Gly	Leu	Met	Leu	
		50			55						60					
Phe	Gly	Ile	Ala	Ile	Glu	Val	Phe	Pro	Gln	His	Arg	Gly	Gln	Asn	Glu	

```

65          70          75          80
Phe Arg Ile Asp Gly Gly Leu Gln Gln Ile Gly His Arg Arg Ala Ala
85          90          95
Arg Arg Ile Gln Arg Arg Gln Ile Thr Gln Arg Lys Ile Ala Phe Gln
100          105          110
Val Glu Ile Ala Ala Glu Ala His Gln His Asn Thr Phe Ala Val Leu
115          120          125
Trp Gln Glu Val Phe Ala Val Asp Asn Phe Arg Ile Val Arg Pro His
130          135          140
Ile Leu Cys Ile Arg His Val Val Thr Gln Phe Ile Gln Arg Leu His
145          150          155          160
Asp Asn Ala Glu Gly Phe Ala Ala Val Met Thr Leu
165          170

```

<210> 8614

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 8614

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Ile Leu Asp Val Leu Gln His Lys Asn Cys Arg Ala Ala Gly Ile Asn
1      5      10      15
Asn Pro Gly Asn Val Lys Lys Gln Cys Ala Leu Arg Ile Thr Gly Lys
20      25      30
Ala Val Cys Ala Ser Gln Arg Val Leu Phe Arg His Ala Ser Gln Arg
35      40      45
Glu Arg Leu Thr Arg Lys Ala Cys Gln Gln His Ile Val Arg Arg Asn
50      55      60
Gly Ile Ala Asn Val Phe Gly Gly Leu Phe Ile Ala Asp Ala Ser Phe
65      70      75      80
Val Ala Gln Arg Asp Ile Thr Asn Ile Arg Val Glu Leu Val Arg Val
85      90      95
Gly Val Ala Ile Pro Val Gly Phe Ile Gly Thr Asp Gly Met Phe Ile
100      105      110
Pro Phe Thr Gly Glu Asp Thr Leu Pro Ala Asn Ser Phe Lys Ala Met
115      120      125
Ala Asn Ala Ala Asp Thr Gly Lys Glu Ile Asp Lys Ala Lys Gly Ile
130      135      140
Ile Arg Met Arg Ser Arg Arg Thr Arg Gln Gln Val Ala Gln Ile Thr
145      150      155      160
Glu Leu Ala Val Ala Gln Ala Val Pro Cys Pro Val Ala Tyr Gln Gln
165      170      175
Pro Leu Glu Tyr Arg Arg Ala Pro Val Thr Leu Ala Met Gly His Gln
180      185      190
Leu Val Cys Gln Arg Phe Ser Ile Ile His Phe Gln Gln Leu Thr Gln
195      200      205
Glu Cys Leu His Gly Cys Arg
210      215

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<210> 8615

<211> 393

<212> PRT

<213> Enterobacter cloacae

<400> 8615

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Arg Glu Tyr Ile Met Lys Arg Lys Val Leu Ala Ile Leu Val Pro Ala
1      5      10      15
Leu Leu Met Ala Gly Ala Ala Asn Ala Ala Glu Met Tyr Asn Lys Asn
20      25      30
Gly Asn Lys Val Asp Leu Tyr Gly Lys Val Asp Ala Arg His Thr Phe
35      40      45

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Ser Asp Asn Pro Gly Asp Asp Gly Asp Glu Thr Tyr Val Gln Val Gly
 50 55 60
 Phe Lys Gly Glu Thr Gln Ile Thr Asn Asp Leu Thr Gly Tyr Gly Gln
 65 70 75 80
 Trp Glu Tyr Lys Thr Tyr Ala Asn Asp Thr Glu Gly Ala Gly Asp Thr
 85 90 95
 Ser Phe Asn Arg Leu Ala Phe Ala Gly Leu Lys Tyr Gly Glu Tyr Gly
 100 105 110
 Ser Phe Asp Tyr Gly Arg Asn Tyr Gly Val Val Tyr Asp Val Glu Ala
 115 120 125
 Trp Thr Asp Met Leu Pro Val Phe Gly Gly Asp Ser Tyr Thr Trp Thr
 130 135 140
 Asp Asn Tyr Met Val Gly Arg Thr Asn Gly Val Ala Thr Tyr Arg Asn
 145 150 155 160
 Asn Asp Phe Phe Gly Leu Val Asp Gly Leu Asn Phe Ala Leu Gln Tyr
 165 170 175
 Gln Gly Ala Asn Glu Gly Ala Asn Ala Asn Glu Asn Gln Glu Gly Thr
 180 185 190
 Lys Asn Gly His Asp Asp Val Arg Phe Gln Asn Gly Asp Gly Phe Gly
 195 200 205
 Met Ser Thr Thr Tyr Asp Phe Asp Phe Gly Leu Thr Leu Gly Ala Ala
 210 215 220
 Tyr Ser Ser Ser Asp Arg Thr Asn Asp Gln Val Ala Tyr Gly Ala Gly
 225 230 235 240
 Thr Tyr Asn Arg Phe Ser Lys Tyr Ala Gly Gly Glu Arg Ala Glu Ala
 245 250 255
 Trp Thr Ile Gly Ala Lys Tyr Asp Ala Asn Asp Val Tyr Leu Ala Met
 260 265 270
 Met Tyr Ala Glu Thr Arg Asn Met Thr Pro Tyr Gly Asn Gly Gly Ile
 275 280 285
 Ala Asn Lys Thr Gln Asn Phe Glu Ala Val Ala Gln Tyr Gln Phe Asp
 290 295 300
 Phe Gly Leu Arg Pro Ser Leu Ala Trp Val Tyr Ser Lys Gly Ile Asp
 305 310 315 320
 Leu Gly Gly Asn Asp Tyr His Pro Gly Asn Gly Tyr Asp Tyr Val Asp
 325 330 335
 Gln Asp Leu Val Asn Tyr Ile Asp Val Gly Met Thr Tyr Ser Phe Asn
 340 345 350
 Lys Asn Phe Ser Thr Tyr Val Asp Tyr Lys Ile Asn Leu Leu Asp Glu
 355 360 365
 Asp Asp Ala Phe Tyr Asn Asp Asn Gly Ile Ala Thr Asp Asp Ile Val
 370 375 380
 Gly Ile Gly Met Ile Tyr Gln Phe
 385 390

<210> 8616

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 8616

Pro Phe Leu Phe His Arg Gly Val Leu Met Ser Asp Leu Gln Pro Phe
 1 5 10 15
 Pro Pro Thr Arg Lys Arg Pro Met Lys Leu Asn Thr Leu Val Thr Leu
 20 25 30
 Met Val Cys Ala Ile Ile Gly Ser Val Leu Leu Val Val Phe Ala Leu
 35 40 45
 Tyr Ser Val Gln Ile Thr Arg Ala Thr Arg Asp Asp Val Lys Asp Thr
 50 55 60
 Ala Leu Gly Ile Ala Arg Thr Leu Ala Asp Ser Pro Glu Ile Lys Arg
 65 70 75 80

Gly Leu Met Glu Ser Pro Gln Ala Gly Ile Ile Gln Pro Ile Ala Glu
 85 90 95
 Ala Val Thr Lys Arg Asn Asp Leu Leu Phe Thr Val Val Thr Asp Leu
 100 105 110
 Arg Gly Ile Arg Tyr Ser His Pro Asn Glu Ala Leu Leu Gly Leu His
 115 120 125
 Phe Ile Gly Asp Asp Leu Thr Pro Ala Leu Glu Gly Lys Glu Asn Val
 130 135 140
 Ser Val Asn Arg Gly Ala Leu Ala Glu Ala Leu Arg Val Phe Thr Pro
 145 150 155 160
 Val Tyr Asp Asp Gln His Asp Gln Ile Gly Val Val Val Val Gly Ile
 165 170 175
 Ser Leu Asn Lys Val Glu Asp Gln Ile Ala Arg Gly Arg Leu Asn Ala
 180 185 190
 Val Trp Thr Ile Leu Phe Ser Val Leu Met Ser Ser Val Ala Ile Trp
 195 200 205
 Gly Leu Val Arg Val Leu Lys Arg Ile Leu Phe Gly Leu Glu Pro Tyr
 210 215 220
 Glu Ile Ser Ala Leu Phe Glu Gln Arg Gln Ala Met Leu Gln Ser Leu
 225 230 235 240
 Arg Glu Gly Val Met Ala Val Asp Met His Gly Arg Val Thr Met Ile
 245 250 255
 Asn His Thr Ala Arg Glu Ile Leu Leu Leu Ser Ser Gly Glu His Ser
 260 265 270
 Glu Ser Ser Gly Glu Pro Leu Leu Ala Ser Leu Arg Glu Val Ala Lys
 275 280 285
 Thr Gly Ile Ala Arg Gln Asp Gln Glu Ile Gly Cys Asn Gly Arg Leu
 290 295 300
 Leu Leu Cys Asn Met Val Pro Val Lys Ser Gln Asn Gln Val Ile Gly
 305 310 315 320
 Ala Ile Ser Thr Phe Arg Asp Lys Thr Glu Ile Ser Gln Leu Met Gln
 325 330 335
 Arg Ile Asp Gly Met Val Asn Tyr Val Asp Ala Leu Arg Ser His Thr
 340 345 350
 His Glu Phe Met Asn Lys Leu His Val Ile Leu Gly Leu Leu His Met
 355 360 365
 Lys Arg Tyr Asp Lys Leu Glu Glu Tyr Ile Ile Gln Thr Ala Gln Asn
 370 375 380
 Tyr Gln Thr Asp Ile Gly Ala Ile Gln Arg Lys Val Lys Ser Pro Val
 385 390 395 400
 Ile Ala Gly Phe Leu Leu Gly Lys Ile Asn Arg Ala Lys Glu Ala Gly
 405 410 415
 Val Thr Leu Thr Leu Ala Glu Glu Ser Gln Leu Pro Asp Thr Ala Asn
 420 425 430
 Glu Glu Gln Val Ala Val Leu Ile Thr Val Leu Gly Asn Leu Ile Glu
 435 440 445
 Asn Ala Leu Asp Ala Met Glu Gly Gln Pro Glu Gly Glu Ile Gly Leu
 450 455 460
 Leu Leu His Tyr Gln Asn Gly Trp Leu Ser Gly Glu Val Ser Asp Asp
 465 470 475 480
 Gly Pro Gly Ile Asp Pro Glu Arg Leu Glu Ala Ile Phe Thr Lys Gly
 485 490 495
 Tyr Ser Thr Lys Gly Glu Asn Arg Gly Val Gly Leu Phe Leu Ala Arg
 500 505 510
 Gln Gln Ile Gln Asn Leu Gly Gly Asp Ile Thr Val Glu Ser Glu Pro
 515 520 525
 Gly Val Phe Thr Gln Phe Phe Val Gln Ile Pro Trp Asp Ser Glu Arg
 530 535 540
 Asn Ile Ala
 545

<210> 8617

<211> 485

<212> PRT

<213> *Enterobacter cloacae*

<400> 8617

Val Ile Val Glu Tyr Val Asn Thr Gly Gln Arg Ile Val Ile Asn Ala
 1 5 10 15
 Pro His Ala Ser Val Tyr Ala Leu Phe Ala Leu Ile Asn Phe His Phe
 20 25 30
 Leu Ile Gln Phe Ser Glu Thr Asp Glu His Asn Val Ala Ile Lys Leu
 35 40 45
 Glu Ile Ile Met Val Ser Ser Thr Ser Pro Ala Thr Val Arg Ala Lys
 50 55 60
 Ala Gly Ala Ile Phe Arg Val Thr Ser Gly Asn Phe Leu Glu Gln Phe
 65 70 75 80
 Asp Phe Phe Leu Phe Gly Phe Tyr Ala Thr Tyr Ile Ala His Thr Phe
 85 90 95
 Phe Pro Ala Ser Ser Glu Phe Ala Ser Leu Met Met Thr Phe Ala Val
 100 105 110
 Phe Gly Ala Gly Phe Leu Met Arg Pro Ile Gly Ala Ile Val Leu Gly
 115 120 125
 Ala Tyr Ile Asp Lys Val Gly Arg Arg Lys Gly Leu Ile Val Thr Leu
 130 135 140
 Ser Ile Met Ala Ala Gly Thr Phe Leu Ile Val Leu Ile Pro Ser Tyr
 145 150 155 160
 Gln Ser Ile Gly Leu Trp Ala Pro Leu Leu Val Leu Thr Gly Arg Leu
 165 170 175
 Leu Gln Gly Phe Ser Ala Gly Ala Glu Leu Gly Gly Val Ser Val Tyr
 180 185 190
 Leu Ala Glu Ile Ala Thr Pro Gly Arg Lys Gly Phe Tyr Thr Ser Trp
 195 200 205
 Gln Ser Gly Ser Gln Gln Val Ala Ile Met Ile Ala Ala Met Gly
 210 215 220
 Phe Ala Leu Asn Val Val Leu Glu Glu Ser Ala Ile Arg Glu Trp Gly
 225 230 235 240
 Trp Arg Ile Pro Phe Leu Phe Gly Cys Leu Ile Val Pro Phe Ile Phe
 245 250 255
 Phe Leu Arg Arg Lys Leu Glu Glu Thr Glu Glu Phe Ser Ala Arg Arg
 260 265 270
 His His Leu Ala Met Arg Gln Val Phe Thr Thr Leu Leu Ala Asn Trp
 275 280 285
 Pro Val Val Val Ala Gly Met Leu Met Val Ala Met Thr Thr Thr Ala
 290 295 300
 Phe Tyr Leu Ile Thr Val Tyr Ala Pro Thr Phe Gly Lys Lys Val Leu
 305 310 315 320
 Met Leu Ser Ala Ser Asp Ser Leu Leu Val Thr Leu Leu Val Ala Val
 325 330 335
 Ser Asn Phe Ile Trp Leu Pro Val Gly Gly Ala Leu Ser Asp Arg Phe
 340 345 350
 Gly Arg Lys Pro Val Leu Ile Ala Met Thr Leu Leu Ala Ala Thr
 355 360 365
 Ser Tyr Pro Ala Leu Thr Met Leu Ala Ala Ala Pro Ser Phe Ser Met
 370 375 380
 Met Leu Thr Val Leu Leu Trp Leu Ser Phe Leu Tyr Gly Leu Tyr Asn
 385 390 395 400
 Gly Ala Met Ile Pro Ala Leu Thr Glu Ile Met Pro Ala Glu Val Arg
 405 410 415
 Val Ala Gly Phe Ser Leu Ala Tyr Ser Leu Ala Thr Ala Val Phe Gly
 420 425 430
 Gly Phe Thr Pro Val Ile Ser Thr Ala Leu Ile Glu Tyr Thr Gly Asp

435 440 445
 Lys Ala Ser Pro Gly Tyr Trp Met Ser Phe Ala Ala Val Cys Ala Leu
 450 455 460
 Leu Ala Thr Leu Tyr Leu Tyr Arg Arg Arg Thr Leu Ile Leu Gln Thr
 465 470 475 480
 Ala Val Lys Glu
 485

<210> 8618
 <211> 265
 <212> PRT
 <213> Enterobacter cloacae

<400> 8618
 Ser Leu Met Leu Thr Phe Arg Thr Val Ile Ala Ala Leu Thr Phe Ala
 1 5 10 15
 Thr Leu Ser Ala Gly Ala Leu Ala Gln Asp Val Thr Val Met Ile Ser
 20 25 30
 Gly Gly Phe Lys Ala Ala Leu Glu Lys Leu Thr Pro Gln Tyr Glu Ala
 35 40 45
 Gln Ser Gly Asp Arg Leu Ile Val Ile Ser Gly Pro Ser Met Gly Lys
 50 55 60
 Thr Pro Gln Ala Ile Pro Ala Arg Leu Ala Arg Gly Glu Lys Ala Asp
 65 70 75 80
 Val Val Ile Met Val Gly Asp Ala Leu Ala Lys Leu Glu Gln Asp Arg
 85 90 95
 Arg Thr Ala Ala Gly Ser Arg Val Glu Leu Ala Asp Ser Pro Val Gly
 100 105 110
 Met Val Val Lys Ala Gly Ala Pro Val Pro Asp Ile Ser Thr Val Pro
 115 120 125
 Ala Leu Arg Gln Thr Leu Leu Lys Ala His Ser Met Ala Tyr Ser Asp
 130 135 140
 Ser Ala Ser Gly Arg Tyr Val Glu Ser Gln Leu Phe Arg Lys Leu Gly
 145 150 155 160
 Ile Asp Gly Gln Val His Asp Lys Ala His Arg Val Glu Arg Ile Pro
 165 170 175
 Val Ala Ser Glu Val Ala Lys Gly Lys Tyr Asp Leu Gly Phe Gln Gln
 180 185 190
 Val Ser Glu Leu Leu Pro Val Pro Gly Val Thr Phe Val Gly Lys Leu
 195 200 205
 Pro Asp Asp Ile Gln Tyr Ile Thr Arg Phe Ala Gly Ala Val Thr Gln
 210 215 220
 Lys Ala Asp His Pro Glu Gln Gly Lys Ala Leu Leu Thr Phe Leu Ala
 225 230 235 240
 Ser Pro Gln Ala Ala Ser Val Ile Thr Ala Thr Gly Leu Thr Pro Val
 245 250 255
 Ser Ala Pro Arg Asp Thr Ala Arg
 260 265

<210> 8619
 <211> 279
 <212> PRT
 <213> Enterobacter cloacae

<400> 8619
 Pro Phe His Phe Val His Val Arg Val Thr Ser Lys Ala Met Ile Lys
 1 5 10 15
 Trp Pro Trp Lys Thr Asn Asp Ala Gly Arg Asn Met Ala Leu Pro Trp
 20 25 30
 Asp Glu Ala Leu Ala Ile Pro Val Leu Ala Asn Leu Leu Pro Glu Glu
 35 40 45

Gln Ser Lys Leu Ile Gln Leu Ala Glu Arg Phe Leu Gln Gln Lys Arg
 50 55 60
 Leu Val Pro Leu Gln Gly Phe Glu Leu Asp Pro Leu Lys Asn Ser Arg
 65 70 75 80
 Ile Ala Leu Leu Phe Cys Leu Pro Val Leu Glu Leu Gly Ile Glu Trp
 85 90 95
 Leu Asp Gly Phe His Glu Val Leu Ile Tyr Pro Ala Pro Phe Ile Val
 100 105 110
 Asp Asp Glu Trp Glu Asp Asp Ile Gly Leu Val His Asn Gln Arg Met
 115 120 125
 Val Gln Ser Gly Gln Ser Trp Gln Gln Gly Pro Ile Ile Leu Asn Trp
 130 135 140
 Leu Asp Ile Gln Asp Ser Phe Asp Ala Ser Gly Phe Asn Leu Ile Ile
 145 150 155 160
 His Glu Val Ala His Lys Leu Asp Thr Arg Asn Gly Asp Arg Ala Ser
 165 170 175
 Gly Val Pro Leu Ile Pro Leu Arg Glu Val Ala Gly Trp Glu His Asp
 180 185 190
 Leu His Ala Ala Met Glu Asn Ile Gln Asp Glu Ile Asp Leu Val Gly
 195 200 205
 Glu Ser Ala Ala Ser Ile Asp Ala Tyr Ala Ala Thr Asp Pro Ala Glu
 210 215 220
 Cys Phe Ala Val Leu Ser Glu Tyr Phe Phe Ser Ala Pro Glu Leu Phe
 225 230 235 240
 Ala Pro Arg Phe Pro Ala Leu Trp Gln Arg Phe Cys Gln Phe Tyr Gln
 245 250 255
 Gln Asp Pro Leu Gln Arg Leu Arg Gln Ser Glu Asp Ala Ala Ser Thr
 260 265 270
 Ser Ser His Pro Phe His
 275

<210> 8620

<211> 584

<212> PRT

<213> Enterobacter cloacae

<400> 8620

Gly Thr Thr Met Arg Thr Leu Leu Arg Ser Ala Gly Thr Asp Val Ala
 1 5 10 15
 Ala Gln Cys Phe Leu Asn Ala Leu Leu Arg Glu Thr Lys Asp Trp His
 20 25 30
 Tyr Leu Pro Ala Thr Arg Ala Asp Glu Leu Ser Leu Ile His Ile Pro
 35 40 45
 Leu Ser Pro Thr Gln Ala Ile Arg Val Pro Val Arg Tyr Phe Ser Pro
 50 55 60
 Thr Gln His His Gln Tyr Leu Phe Pro Ala Thr Leu Ile Gln Ala Asp
 65 70 75 80
 Ser Asp Gly Gly Asp Thr Val Thr Phe His Gln Leu Ile Asp Leu Ile
 85 90 95
 Ile Glu Lys Glu Thr Val Lys Gly Ala Leu Asp Ala Asp Thr Leu Ala
 100 105 110
 Arg Phe Lys Gln Arg Val Leu Glu Ser His Thr His Thr Trp Gln Ala
 115 120 125
 Ile Asp Leu Arg His Asn Trp Ala Asn Leu Arg Asp Lys Pro Leu Thr
 130 135 140
 Phe Ala Glu Ala Glu Gln Ala Leu Leu Val Gly His Ala Phe His Pro
 145 150 155 160
 Ala Pro Lys Ser His Glu Pro Phe Asn Glu Ala Glu Ala Arg Arg Tyr
 165 170 175
 Leu Pro Asp Phe Ala Ser Arg Phe Pro Leu Arg Trp Phe Ala Val Glu
 180 185 190

His Glu Leu Ile Thr Gly Asp Ser Leu Asn Val Ser Leu Arg Glu Arg
 195 200 205
 Leu Leu Arg Phe Ala Ala Gln Ser Ala Pro Ala Leu Leu Gly His Phe
 210 215 220
 Thr Asp Thr Cys Trp Leu Leu Pro Met His Pro Trp Gln Ala Asp Tyr
 225 230 235 240
 Leu Leu Glu Gln Asp Trp Cys Gln Arg Leu Val Glu Lys Gly Ala Leu
 245 250 255
 Arg Asp Leu Gly Glu Ala Gly Ala Pro Trp Leu Pro Thr Ser Ser Ser
 260 265 270
 Arg Ser Leu Tyr Ser Glu Thr Asn Ser Asp Met Ile Lys Phe Ser Leu
 275 280 285
 Ser Val Arg Leu Thr Asn Ser Val Arg Thr Leu Ser Val Lys Glu Val
 290 295 300
 Lys Arg Gly Met Arg Leu Ala Arg Leu Ala Lys Thr Ala Arg Trp Gln
 305 310 315 320
 Gly Leu Gln Ala Arg Tyr Pro Thr Met Arg Val Met Gln Glu Asp Gly
 325 330 335
 Trp Ala Gly Leu Arg Asp Glu His Gly Val Ile Gln Glu Glu Ser Leu
 340 345 350
 Met Ala Leu Arg Val Asn Leu Leu Phe Asp Thr Pro Glu Thr Gln Thr
 355 360 365
 Asn Val Leu Val Ser Leu Thr Gln Ala Ala Pro Asp Gly Gly Asp Ser
 370 375 380
 Leu Leu Ala Ala Ala Val Arg Arg Leu Ser Gln Arg Leu Asp Leu Pro
 385 390 395 400
 Leu Ala Gln Ala Ala Arg Cys Trp Leu Asp Ala Tyr Cys Asp Arg Val
 405 410 415
 Leu Leu Pro Leu Phe Ser Ala Glu Ala Asp Tyr Gly Leu Val Leu Leu
 420 425 430
 Ala His Gln Gln Asn Ile Leu Val Glu Met Gln Gln Asp Phe Pro Val
 435 440 445
 Gly Leu Ile Tyr Arg Asp Cys Gln Gly Ser Ala Trp Thr Glu Gly Ala
 450 455 460
 Asp Ala Trp Leu Asn Glu Ala Gly Glu Thr Glu Val Glu Asn Arg Phe
 465 470 475 480
 Gly Glu Ser Gln Leu Leu Arg Tyr Phe Pro Tyr Tyr Leu Leu Leu Asn
 485 490 495
 Ser Thr Leu Ala Val Thr Ala Ala Leu Ala Ala Ala Gly Phe Asp Ser
 500 505 510
 Glu Glu Asn Leu Met Ser Arg Val Arg Asp Ala Leu Ala Glu Leu Arg
 515 520 525
 Thr Thr Ala Lys Gln Thr Arg Cys Leu Asp Tyr Val Leu Asp Ser Pro
 530 535 540
 Thr Trp Asn Cys Lys Gly Asn Phe Phe Cys Tyr Leu His Asp Arg Asn
 545 550 555 560
 Glu Asn Thr Ile Val Asp Pro Ala Val Ile Tyr Phe Asp Phe Ser Asn
 565 570 575
 Pro Phe Tyr Lys Glu Lys Ala
 580

<210> 8621

<211> 235

<212> PRT

<213> Enterobacter cloacae

<400> 8621

Pro Ser Phe Ser Gly Leu Pro Gly Val Ser Ala Met Lys Thr Tyr Asp
 1 5 10 15
 Phe Ile Gly Ile Gly Ile Gly Pro Phe Asn Leu Ser Ile Ala Ala Leu
 20 25 30

Ala Glu Gly Leu Asp Gly Phe Ser Ser Leu Phe Leu Glu Arg Lys Pro
 35 40 45
 His Phe Ser Trp His Pro Gly Met Met Val Pro Asp Cys His Met Gln
 50 55 60
 Thr Ser Phe Leu Lys Asp Leu Val Ser Ala Val Glu Pro Thr Asn Arg
 65 70 75 80
 His Ser Phe Leu Asn Tyr Leu Val Gln Arg Lys Lys Phe Tyr Arg Phe
 85 90 95
 Leu Thr Thr Glu Gln Arg Thr Val Ser Arg Glu Glu Phe Ala Asp Tyr
 100 105 110
 Leu Cys Trp Ala Ala Asp Asn Leu Thr Asn Leu Ala Phe Ser Gln Gln
 115 120 125
 Val Gln Gln Val Ser Phe Asp Glu Gln Asn Gly Leu Phe Glu Ile Val
 130 135 140
 Thr Gln Arg Asp Arg Phe Leu Ala Arg His Val Cys Val Gly Ile Gly
 145 150 155 160
 Lys Gln Ile Asn Leu Pro Asp Cys Val Thr Ala Gln Asp Asp Thr Cys
 165 170 175
 Phe His Ala Ser Glu Met Met Leu Arg Thr Pro Asp Leu Ala Gly Lys
 180 185 190
 Arg Val Thr Val Val Gly Gly Gly Gln Ser Gly Ala Asp Leu Phe Leu
 195 200 205
 Asn Ile Phe Arg Gly Glu Trp Gly Gln Pro Leu Ser Leu Asn Trp Val
 210 215 220
 Ser Arg Arg Gln Gln Leu Gln Arg Val Gly
 225 230 235

<210> 8622

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 8622

Pro Pro Lys Gly Ile Thr Thr Glu Ser Leu Leu Gly Ile Tyr Arg Ala
 1 5 10 15
 Met Tyr His Arg Phe Glu Val Leu Arg Glu Lys Pro Trp Ala His Leu
 20 25 30
 Met Pro Ser Arg Ser Val Thr Ala Leu Thr Arg Gln Glu Thr Gly Pro
 35 40 45
 Arg Leu Ser Ile Gln His His Leu Asp Gly Gly Arg Glu Gln Leu Glu
 50 55 60
 Ser Asp Val Val Ile Phe Ala Thr Gly Tyr Arg Ala Val Gln Pro Ala
 65 70 75 80
 Phe Leu Ala Pro Leu Ser Ser Arg Leu Arg Leu Asp Glu Asp Glu Ala
 85 90 95
 Phe Cys Ile Asn Asn Asp Phe Thr Leu Glu Trp Asp Gly Pro Gln Ser
 100 105 110
 Asn Arg Leu Phe Ala Val Asn Ala Gly Met His Arg Leu Gly Ile Ala
 115 120 125
 Glu Pro Gln Leu Ser Leu Met Ala Trp Arg Ala Ala Arg Ile Leu Asn
 130 135 140
 Arg Ala His Asp Asp Glu Pro Phe Glu Leu Ala Thr Thr Pro Gly Val
 145 150 155 160
 Ile His Trp Arg Ser Thr Thr Ser Pro Glu Ser Ser Gln Val Phe Lys
 165 170 175
 Ser Leu Ile Lys Thr Thr Glu Tyr
 180 185

<210> 8623

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 8623

Gly Thr Met Arg Phe Arg His Leu Leu Pro Leu Ile Gly Ala Leu Phe
 1 5 10 15
 Ser Leu Tyr Ile Ile Trp Gly Ser Thr Tyr Phe Val Ile Arg Ile Gly
 20 25 30
 Val Glu Ser Trp Pro Pro Leu Met Met Ala Gly Ile Arg Phe Leu Thr
 35 40 45
 Ala Gly Val Leu Leu Met Ala Phe Leu Leu Leu Arg Gly His Arg Leu
 50 55 60
 Pro Pro Leu Arg Pro Leu Leu Asn Ala Ala Leu Ile Gly Leu Leu Leu
 65 70 75 80
 Leu Ala Val Gly Asn Gly Ala Val Thr Val Ala Glu His Gln Asn Val
 85 90 95
 Pro Ser Gly Ile Ala Ala Val Val Val Ala Thr Val Pro Leu Phe Thr
 100 105 110
 Leu Cys Phe Ser Arg Leu Phe Gly Ile Arg Thr Arg Lys Leu Glu Trp
 115 120 125
 Leu Gly Ile Ala Ile Gly Leu Val Gly Ile Ile Leu Leu Asn Ser Gly
 130 135 140
 Gly Asn Leu Ser Gly Asn Pro Trp Ala Ala Val Leu Ile Met Ile Gly
 145 150 155 160
 Ser Met Ser Trp Ala Phe Gly Ser Val Tyr Gly Ser Arg Ile Glu Leu
 165 170 175
 Pro Ser Gly Met Met Ala Gly Ala Ile Glu Met Leu Ala Ala Gly Ile
 180 185 190
 Val Leu Leu Met Ala Ser Ala Leu Thr Gly Glu Lys Leu Thr Ala Met
 195 200 205
 Pro Asp Leu Ser Gly Phe Leu Ala Val Gly Tyr Leu Ala Leu Phe Gly
 210 215 220
 Ser Ile Ile Ala Ile Asn Ala Tyr Met Tyr Leu Ile Arg Asn Val Ser
 225 230 235 240
 Pro Ala Val Ala Thr Ser Tyr Ala Tyr Val Asn Pro Val Val Ala Val
 245 250 255
 Leu Leu Gly Thr Gly Phe Ala Gly Glu Val Leu Ser Thr Ile Glu Trp
 260 265 270
 Leu Ala Leu Gly Val Ile Val Phe Ala Val Val Leu Val Thr Leu Gly
 275 280 285
 Lys Tyr Leu Leu Pro Ala Lys Pro Ile Val Thr Arg Cys Glu Val Glu
 290 295 300
 Lys Pro
 305

<210> 8624

<211> 523

<212> PRT

<213> Enterobacter cloacae

<400> 8624

Ser Asn Arg Ile Cys Val Phe Ala Val Arg Arg Ile Phe Asp Asn Leu
 1 5 10 15
 Arg Arg Glu Thr Met Lys Thr Lys Thr Ala Val Thr Pro Pro Ala Ala
 20 25 30
 Asn Leu Ala Ser Asn Gly Thr Ala Lys Arg Leu Leu Met Met Ala Leu
 35 40 45
 Pro Val Ile Val Ala Val Leu Leu Leu Phe Val Pro Val Pro Asp Gly
 50 55 60
 Leu Pro Pro Tyr Ala Trp His Tyr Phe Ala Ile Phe Val Gly Val Ile
 65 70 75 80
 Val Gly Leu Ile Phe Glu Pro Leu Pro Gly Ala Val Ile Gly Leu Thr

85 90 95
 Gly Val Val Ala Ile Ala Leu Cys Ser Gln Trp Val Leu Phe Ser Pro
 100 105 110
 Glu Gln Leu Ala Asp Pro Lys Phe Lys Leu Ala Gly Ala Ser Phe Lys
 115 120 125
 Trp Ala Val Ser Gly Phe Gly Asn Ser Thr Val Trp Leu Ile Phe Gly
 130 135 140
 Ala Phe Met Phe Ala Ala Gly Tyr Asp Lys Thr Arg Phe Gly Arg Arg
 145 150 155 160
 Leu Ala Leu Ile Leu Val Lys Tyr Leu Gly Arg Arg Ser Leu Thr Leu
 165 170 175
 Gly Tyr Ala Ile Thr Phe Ala Asp Leu Leu Leu Ala Pro Phe Thr Pro
 180 185 190
 Ser Asn Thr Ala Arg Ser Gly Gly Thr Ile Tyr Pro Ile Ile Ala Asn
 195 200 205
 Leu Pro Pro Leu Tyr Gly Ser Lys Pro Asn Asp Pro Ser Ala Arg Lys
 210 215 220
 Ile Gly Ser Tyr Leu Met Trp Val Ala Ile Thr Ala Ala Cys Ile Thr
 225 230 235 240
 Ser Ser Met Phe Leu Ser Ala Leu Ala Pro Asn Leu Leu Ala Leu Ala
 245 250 255
 Leu Val Lys Ser Thr Val Gly Ile Asp Ile Ser Trp Gly Thr Trp Phe
 260 265 270
 Leu Ala Phe Leu Pro Leu Gly Ile Leu Leu Ile Leu Thr Met Pro Leu
 275 280 285
 Leu Ala Tyr Trp Phe Tyr Pro Pro Glu Val Lys Val Asn Asn Glu Val
 290 295 300
 Pro Leu Trp Ala Thr Arg Glu Leu Glu Lys Leu Gly Lys Leu Ser Arg
 305 310 315 320
 Asn Glu Ile Leu Leu Leu Val Phe Val Cys Cys Ala Leu Leu Met Trp
 325 330 335
 Ile Phe Ala Ala Ala Trp Ile Glu Pro Ala Met Ala Ala Leu Leu Ile
 340 345 350
 Val Gly Leu Met Leu Trp Thr Gly Val Leu Glu Trp Asn Asp Ile Thr
 355 360 365
 Gly Asn Lys Ala Ala Trp Asn Thr Phe Val Trp Phe Ala Thr Leu Val
 370 375 380
 Ala Leu Ala Asp Gly Leu Ser Ser Thr Gly Phe Ile Ser Trp Leu Gly
 385 390 395 400
 Lys Glu Gly Gly Leu Leu Met Ser Gly Ile Ser Pro Gly Val Ala Thr
 405 410 415
 Ile Val Leu Leu Leu Ala Phe Tyr Leu Leu His Tyr Leu Phe Ala Ser
 420 425 430
 Thr Thr Ala His Thr Thr Ala Leu Leu Pro Ala Met Leu Thr Ile Ala
 435 440 445
 Ser Thr Ile Pro Gly Met Asn Met Glu Val Phe Val Leu Leu Met Val
 450 455 460
 Thr Ser Leu Gly Val Met Gly Ile Ile Thr Pro Tyr Gly Thr Gly Pro
 465 470 475 480
 Ser Pro Ile Tyr Tyr Gly Ser Gly Tyr Leu Pro Thr Lys Asp Tyr Trp
 485 490 495
 Arg Leu Gly Thr Ile Phe Gly Ala Ile Phe Leu Ala Ala Leu Leu Leu
 500 505 510
 Ile Gly Tyr Pro Trp Met Ser Met Met Phe
 515 520

<210> 8625

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 8625
 Thr Glu Val Leu Pro Glu Pro Asn Val Ile Asn Met Lys Ile Lys Thr
 1 5 10 15
 Asn Arg Thr Leu Leu Ala Ala Leu Val Ile Ser Ser Leu Leu Ser Pro
 20 25 30
 Ala Val Met Ala Ala Cys Asn Gly Thr Asp Leu Thr Thr Cys Pro Ala
 35 40 45
 Pro Phe Asp Ala Arg Leu Pro Asp Ala His Thr Met Leu Thr Trp Ser
 50 55 60
 Gln Ala Asp Arg Val Val Gly Phe Arg Asn Asp Tyr Arg Asn Tyr Ala
 65 70 75 80
 Gly Asp Val Phe Arg His Gly Asn Ala Thr Pro Leu Leu Pro Ala Glu
 85 90 95
 Lys Pro Leu Thr Asp Ala Arg Tyr Gln Val Lys Gly Lys Ile Tyr Asn
 100 105 110
 Leu Gln Asp Tyr Leu Lys Arg Gln Asn Val Ser Gly Met Leu Val Leu
 115 120 125
 Lys Asn Gly Lys Val Ala Tyr Lys Tyr Leu Gly Glu Gly Asn Thr Asp
 130 135 140
 Ser Thr Leu Trp Thr Ser Arg Ser Val Gly Lys Ser Val Val Ser Ala
 145 150 155 160
 Leu Val Gly Val Ala Ile Lys Glu Gly Lys Ile His Ser Leu Asp Asp
 165 170 175
 Leu Val Thr Gln Tyr Glu Pro Asp Leu Lys Gly Thr Ala Trp Glu Gly
 180 185 190
 Val Thr Leu Lys Gln Leu Ile Thr His Thr Ser Gly Val Ala Trp Thr
 195 200 205
 Glu Asp Tyr Thr Asn Ala Gln Ser Asp Phe Ala Arg Leu Thr Glu Cys
 210 215 220
 Glu Ala Lys Pro Gly Thr Tyr Asp Cys Val Arg Thr Leu Val Lys Gly
 225 230 235 240
 Leu His Arg Glu His Pro Ala Gly Glu Asn Trp Ser Tyr Ser Ser Gly
 245 250 255
 Gly Ala Trp Leu Leu Gly Asp Val Leu Glu Arg Ala Thr Gly Met Thr
 260 265 270
 Leu Ala Ala Tyr Leu Glu Lys Ser Ile Trp Gln Pro Tyr Gly Met Ala
 275 280 285
 Ser Asp Gly Val Trp His Ala Tyr Ser Lys Gly Gln His Asp Val Gly
 290 295 300
 Ala His Gly Phe Asn Ala Thr Leu Glu Asp Trp Gly Arg Phe Gly Glu
 305 310 315 320
 Phe Ile Leu His Asn Gly Thr Leu Pro Asp Gly Lys Gln Ile Leu Pro
 325 330 335
 Glu Gly Trp Val Lys Gln Ser Ser Ala Trp Thr Gln Ala Lys Gly Ser
 340 345 350
 Val Ser Glu Ala His Pro Lys Gly Leu Tyr Gly Tyr Gln Trp Trp Asn
 355 360 365
 Asn Glu Val Pro Ala Thr Ala Thr Asn Val Glu Pro Lys Val Glu Asn
 370 375 380
 Ser Leu Lys Asp Ser Leu Trp Ala Leu Gly Ile Phe Gly Gln Met Ile
 385 390 395 400
 Met Val Asn His Lys Glu Asn Leu Val Ile Val Gln Trp Ser Thr Trp
 405 410 415
 Pro Gln Ala Glu Pro Ser Phe Ser Ala Gln Pro Leu Glu Ala Ser Leu
 420 425 430
 Met Phe Ser Ala Ile Ala Asn Ala Leu Arg
 435 440

<210> 8626

<211> 636

<212> PRT

<213> Enterobacter cloacae

<400> 8626

Thr Ala His Gly Ala His Cys Gly Gly Thr Ala Leu Arg Gln Pro Ala
 1 5 10 15
 Ser Val Pro Pro Ser Gly Val Arg Arg Phe Arg His Gly Glu Arg Val
 20 25 30
 Arg Leu Pro Ala Gln Thr Leu Pro Pro His His Glu Arg Ala Ser Ser
 35 40 45
 Leu Leu Pro Arg Gly Gly Thr Val Asn Ala Leu Trp Gln Lys Val Asn
 50 55 60
 Arg Glu Met Val Ala Lys Ile Leu Ala Glu Leu Glu Tyr Glu Arg Thr
 65 70 75 80
 Leu Arg Ala Glu Pro Asp Ser Ala Asp Tyr Trp Arg Ile Ser Met Gly
 85 90 95
 Asn Ala Cys Trp Gln Phe Arg Ala Thr Arg Gly Ile Trp Gly Trp Leu
 100 105 110
 His Ile Asp Pro Asp Thr Leu Thr Thr Thr Ser Gly Ala Ala Val Glu
 115 120 125
 Ala Glu Asn Ala Leu Leu Gln Leu Ala Thr Val Leu Glu Met Ser Asp
 130 135 140
 Ala Gln Thr Ala Glu His Met Glu Asp Leu Tyr Ala Thr Leu Arg Gly
 145 150 155 160
 Asp Met Gln Leu Leu Gln Ala Arg Glu Thr Leu Asp Ala Asp Ala Leu
 165 170 175
 Ile His Leu Asp Pro Asp Glu Leu Gln Cys Leu Met Arg Gly His Pro
 180 185 190
 Lys Phe Ile Phe Asn Lys Gly Arg Arg Gly Trp Gly Leu Asp Ala Leu
 195 200 205
 Arg Leu Tyr Ala Pro Glu Tyr Arg Gly Arg Phe Arg Leu His Trp Val
 210 215 220
 Ala Val Gln Arg Asp Arg Leu Val Trp Ser Ser Asp Ala Asp Cys Asp
 225 230 235 240
 Ile Asn Ala Leu Leu Ser Ser Ala Met Asp Asp Ala Glu Arg Glu Arg
 245 250 255
 Phe Asp Ala Arg Trp Gln Glu Leu Asp Leu Asp Asp Ser Trp Leu Pro
 260 265 270
 Val Pro Leu His Pro Trp Gln Trp Gln Gln Lys Ile Ala Ile His Phe
 275 280 285
 Leu Ala Gln Leu Ala Arg Gly Glu Met Val Glu Leu Gly Glu Phe Gly
 290 295 300
 Asp Glu Tyr Leu Ala Gln Gln Ser Leu Arg Thr Leu Thr Asn Ala Ser
 305 310 315 320
 Arg Arg Thr Pro Tyr Asp Ile Lys Leu Pro Leu Thr Ile Tyr Asn Thr
 325 330 335
 Ser Cys Tyr Arg Gly Ile Pro Gly Lys Tyr Ile Ala Ala Gly Pro Leu
 340 345 350
 Ala Ser Arg Trp Leu Gln Gln Gln Phe Ala Ser Asp Ala Thr Leu Ile
 355 360 365
 Arg Ser Gly Ala Gln Val Leu Gly Glu Pro Ala Ala Gly Tyr Leu Ser
 370 375 380
 His Pro Gly Tyr Ala Ala Leu Pro Glu Ala Pro Tyr Arg Tyr Gln Glu
 385 390 395 400
 Met Leu Gly Val Ile Trp Arg Glu Asn Pro Ser Cys Tyr Leu Gln Asp
 405 410 415
 Gly Glu Gln Ala Val Leu Met Ala Ala Leu Met Glu Thr Asp Asn Gln
 420 425 430
 Gly Arg Pro Leu Ile Asp Ala Trp Ile Lys Arg Ser Gly Leu Thr Ala
 435 440 445
 Asp Ala Trp Leu Glu Lys Leu Phe Glu Ala Thr Val Ile Pro Phe Tyr
 450 455 460

His Leu Leu Cys Arg Tyr Gly Val Ala Leu Ile Ala His Gly Gln Asn
 465 470 475 480
 Val Thr Leu Val Met Lys Asp Tyr Val Pro Gln Arg Ile Leu Leu Lys
 485 490 495
 Asp Phe Gln Gly Asp Met Arg Leu Val Asp Glu Asp Phe Pro Gln Ala
 500 505 510
 Gln Ser Leu Pro Glu Gln Val Lys Ala Val Thr Ala Arg Leu Ser Ala
 515 520 525
 Asp Tyr Ile Ile His Asp Leu Gln Thr Gly Asn Phe Val Thr Val Leu
 530 535 540
 Arg Phe Ile Ser Arg Leu Thr Leu Gln Cys Gly Val Asn Glu Thr Arg
 545 550 555 560
 Phe Tyr Gln Ile Leu Ala Leu Val Leu His Arg Tyr Met Ala Ala His
 565 570 575
 Pro Asp Leu Ala Ala Arg Phe Ala Lys Phe Asp Leu Phe Lys Pro Gln
 580 585 590
 Ile Ile Arg Val Ile Leu Asn Pro Val Lys Leu Thr Phe Ser Glu His
 595 600 605
 Asp Gly Gly Ser Arg Met Leu Pro Asn Tyr Val Cys Asp Leu Asp Asn
 610 615 620
 Pro Leu Phe Leu Ala Ser Arg Glu Ser Ala Gln
 625 630 635

<210> 8627

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 8627

Asn Val Met Ala Leu Pro Ala Arg Pro Gly Glu Gln Thr Arg Tyr Ser
 1 5 10 15
 Ala Pro Ala Ile His Ala Leu Ser Arg His Ser Asp Pro Ser Ala Pro
 20 25 30
 Ser Val Pro Pro Phe Cys Thr Gly Gly Tyr Ser Phe Pro Ala Arg Pro
 35 40 45
 Ser Pro Ala Pro Gly Tyr Ile Pro Pro Leu Pro Ser Gln Trp Gln Phe
 50 55 60
 Val Val Arg Pro Ile Trp Cys Cys Leu Pro Pro Asp Gln Arg Ala Gly
 65 70 75 80
 Cys Cys Thr Pro Val Leu Ser Val Pro Pro Asp Arg Trp
 85 90

<210> 8628

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 8628

Arg Glu Glu Tyr Arg Val Ile Asn Val Leu Ile Val Asp Asp Asp Ala
 1 5 10 15
 Met Val Ala Asp Leu Asn Arg Leu Tyr Val Asn Arg Val Glu Gly Phe
 20 25 30
 Ser Cys Cys Gly Val Ala Ser Thr Leu Asn Gln Ala Glu Ala Leu Ile
 35 40 45
 Ala Asn Pro Gly Gln Pro Ile Asp Leu Val Leu Leu Asp Val Tyr Met
 50 55 60
 Gln Gln Asp Asn Gly Leu Asp Leu Leu Pro Ile Ile Arg Ala Ser Gly
 65 70 75 80
 Arg Pro Ile Asp Val Ile Met Ile Ser Ser Ala Ser Asp Ala Thr
 85 90 95
 Ile Gln Thr Ser Met His Tyr Gly Val Val Asp Tyr Leu Ile Lys Pro

100 105 110
 Phe Gln Phe Pro Arg Phe Glu Glu Ala Leu Asn Gly Trp Lys Ala Lys
 115 120 125
 Arg Ser Leu Met Gly Ser His Gln Tyr Tyr Glu Gln Ala Asp Val Asp
 130 135 140
 Arg Leu Ile His Gly Gly Ala Pro Glu Leu Ala Asp Ser Lys Lys Leu
 145 150 155 160
 Pro Lys Gly Leu Thr Pro Gln Thr Leu Arg Thr Ile Cys Gln Trp Ile
 165 170 175
 Asp Ser His Pro Glu Ile Glu Phe Ser Thr Asp Asp Leu Ala Asn Ala
 180 185 190
 Val Asn Ile Ser Arg Val Ser Cys Arg Lys Tyr Leu Ile Trp Leu Ala
 195 200 205
 Gln Ile Asn Ile Leu Phe Thr Ser Ile His Tyr Gly Ala Thr Gly Arg
 210 215 220
 Pro Val Tyr Arg Tyr Arg Leu Gln Pro Glu Gln Val Gly Leu Leu Lys
 225 230 235 240
 Gln Tyr Cys Gln

245

<210> 8629

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 8629

Pro Pro Asp Ile Ser Ser Gly Gly Phe Ile Phe Val Glu Gln Ala Met
 1 5 10 15
 Ser Asn Lys Pro Phe Ile Tyr Gln Asn Pro Phe Pro Leu Ala His Asp
 20 25 30
 Asp Thr Glu Tyr Tyr Leu Leu Thr Lys Glu His Val Ser Val Ala Glu
 35 40 45
 Phe Asp Gly Gln Glu Val Leu Lys Val Glu Pro Glu Ala Leu Thr Leu
 50 55 60
 Leu Ala Gln Gln Ala Phe His Asp Ala Ala Phe Met Leu Arg Pro Ser
 65 70 75 80
 His Gln Lys Gln Val Ala Ala Ile Leu Asn Asp Pro Glu Ala Ser Gln
 85 90 95
 Asn Asp Lys Tyr Val Ala Leu Gln Phe Leu Arg Asn Ser Glu Ile Ala
 100 105 110
 Ala Lys Gly Val Leu Pro Thr Cys Gln Asp Thr Gly Thr Ala Ile Ile
 115 120 125
 Met Gly Lys Lys Gly Gln Arg Val Trp Thr Gly Gly Gly Asp Glu Ala
 130 135 140
 Ala Leu Ser Gln Gly Val Tyr Asn Thr Tyr Ile Glu Asp Asn Leu Arg
 145 150 155 160
 Tyr Ser Gln Asn Ala Ala Leu Asp Met Tyr Lys Glu Val Asn Thr Gly
 165 170 175
 Thr Asn Leu Pro Ala Gln Ile Asp Leu Tyr Ser Val Asp Gly Asp Glu
 180 185 190
 Tyr Lys Phe Leu Cys Met Ala Lys Gly Gly Gly Ser Ala Asn Lys Thr
 195 200 205
 Tyr Leu Tyr Gln Glu Thr Lys Ala Leu Ile Thr Pro Ala Lys Leu Lys
 210 215 220
 Lys Tyr Leu Val Glu Lys Met Arg Thr Leu Gly Thr Ala Ala Cys Pro
 225 230 235 240
 Pro Tyr His Ile Ala Phe Val Ile Gly Gly Thr Ser Ala Glu Ala Thr
 245 250 255
 Leu Lys Thr Val Lys Leu Ala Ser Ala Arg Tyr Tyr Asp Gly Leu Pro
 260 265 270
 Thr Glu Gly Asn Ala His Gly Gln Ala Phe Arg Asp Val Gln Leu Glu

275										280										285												
Gln	Glu	Leu	Leu	Gln	Glu	Ala	Gln	Asn	Leu	Gly	Leu	Gly	Ala	Gln	Phe	Gln	Glu	Leu	Gln	Ala	Asn	Leu	Gly	Leu	Gly	Ala	Gln	Phe				
290								295				300											305									
Gly	Gly	Lys	Tyr	Phe	Ala	His	Asp	Ile	Arg	Val	Ile	Arg	Leu	Pro	Arg	Gly	Gly	Lys	Tyr	Phe	Ala	His	Asp	Ile	Arg	Leu	Pro	Arg				
305					310							315			320								325									
His	Gly	Ala	Ser	Cys	Pro	Ile	Gly	Met	Gly	Val	Ser	Cys	Ser	Ala	Asp	His	Gly	Ala	Ser	Cys	Pro	Ile	Gly	Met	Gly	Val	Ser	Cys	Ser	Ala	Asp	
					325							330			335								335									
Arg	Asn	Ile	Lys	Ala	Lys	Ile	Asn	Arg	Glu	Gly	Ile	Trp	Ile	Glu	Lys	Arg	Asn	Ile	Lys	Ala	Lys	Ile	Asn	Arg	Glu	Gly	Ile	Trp	Ile	Glu	Lys	
					340							345											345									
Leu	Glu	His	Asn	Pro	Gly	Gln	Tyr	Ile	Pro	Glu	Ser	Leu	Arg	Gln	Gln	Leu	Glu	His	Asn	Pro	Gly	Gln	Tyr	Ile	Pro	Glu	Ser	Leu	Arg	Gln	Gln	
					355							360											360									
Gly	Glu	Gly	Asp	Val	Val	Ser	Ile	Asp	Leu	Asn	Lys	Pro	Met	Pro	Asp	Gly	Glu	Gly	Asp	Val	Val	Ser	Ile	Asp	Leu	Asn	Lys	Pro	Met	Pro	Asp	
					370							380											375									
Ile	Leu	Ala	Gln	Leu	Ser	Ala	His	Pro	Val	Ser	Thr	Arg	Leu	Ser	Leu	Ile	Leu	Ala	Gln	Leu	Ser	Ala	His	Pro	Val	Ser	Thr	Arg	Leu	Ser	Leu	
					390							395			400								395									
Asn	Gly	Thr	Ile	Ile	Val	Ala	Arg	Asp	Ile	Ala	His	Ala	Lys	Leu	Lys	Asn	Gly	Thr	Ile	Ile	Val	Ala	Arg	Asp	Ile	Ala	His	Ala	Lys	Leu	Lys	
					405							410			415								410									
Glu	Leu	Leu	Asp	Asn	Gly	Glu	Glu	Leu	Pro	Gln	Tyr	Val	Lys	Asp	His	Glu	Leu	Leu	Asp	Asn	Gly	Glu	Glu	Leu	Pro	Gln	Tyr	Val	Lys	Asp	His	
					420							425			430								425									
Pro	Ile	Tyr	Tyr	Ala	Gly	Pro	Ala	Lys	Thr	Pro	Glu	Gly	Tyr	Ala	Ser	Pro	Ile	Tyr	Tyr	Ala	Gly	Pro	Ala	Lys	Thr	Pro	Glu	Gly	Tyr	Ala	Ser	
					435							440			445								440									
Gly	Ser	Leu	Gly	Pro	Thr	Thr	Ala	Gly	Arg	Met	Asp	Ser	Tyr	Val	Asp	Gly	Ser	Leu	Gly	Pro	Thr	Thr	Ala	Gly	Arg	Met	Asp	Ser	Tyr	Val	Asp	
					450							455			460								455									
Leu	Leu	Gln	Ser	Asn	Gly	Ala	Ser	Met	Ile	Met	Leu	Ala	Lys	Gly	Asn	Leu	Leu	Gln	Ser	Asn	Gly	Ala	Ser	Met	Ile	Met	Leu	Ala	Lys	Gly	Asn	
					465							475			480								470									
Arg	Ser	Gln	Gln	Val	Thr	Asp	Ala	Cys	His	Lys	His	Gly	Gly	Phe	Tyr	Arg	Ser	Gln	Gln	Val	Thr	Asp	Ala	Cys	His	Lys	His	Gly	Gly	Phe	Tyr	
					485							490			495								485									
Leu	Gly	Ser	Ile	Gly	Gly	Pro	Ala	Ala	Val	Leu	Ala	Gln	Asn	Ser	Ile	Leu	Gly	Ser	Ile	Gly	Gly	Pro	Ala	Ala	Val	Leu	Ala	Gln	Asn	Ser	Ile	
					500							505			510								505									
Lys	Ser	Leu	Glu	Cys	Val	Ala	Tyr	Pro	Glu	Leu	Gly	Met	Glu	Ala	Ile	Lys	Ser	Leu	Glu	Cys	Val	Ala	Tyr	Pro	Glu	Leu	Gly	Met	Glu	Ala	Ile	
					515							525											520									
Trp	Lys	Ile	Glu	Val	Glu	Asn	Phe	Pro	Ala	Phe	Ile	Leu	Val	Asp	Asp	Trp	Lys	Ile	Glu	Val	Glu	Asn	Phe	Pro	Ala	Phe	Ile	Leu	Val	Asp	Asp	
					530							540											535									
Lys	Gly	Asn	Asp	Phe	Phe	Gln	Glu	Ile	Gln	Asn	Lys	Gln	Cys	Lys	Gly	Lys	Gly	Asn	Asp	Phe	Phe	Gln	Glu	Ile	Gln	Asn	Lys	Gln	Cys	Lys	Gly	
					545							555			560								550									
Cys	Ser	Gln	Arg													Cys	Ser	Gln	Arg													

565

<210> 8630

<211> 320

<212> PRT

<213> *Enterobacter cloacae*

<400> 8630

Gly	Glu	Gly	Val	Met	Ala	Asn	Ala	Asn	Ile	Val	His	Ser	Gly	Tyr	Gly
1				5					10					15	
Phe	Arg	Cys	Thr	Val	Thr	Glu	Gln	Asn	Leu	Pro	Leu	Thr	Leu	Gly	Leu
				20					25				30		
Asp	Gly	Ser	Ala	Val	Met	Glu	Arg	Leu	Ile	Gly	Leu	Pro	Asp	Gly	Trp
				35				40					45		
Leu	Val	Asp	Ala	Leu	Asp	Gln	Leu	Phe	Val	Ala	Ala	Pro	Ala	Leu	Thr
				50				55				60			
Gly	Ile	Thr	Leu	Pro	Trp	Ala	Ala	Trp	Gln	Asp	Glu	Pro	Gln	Ala	Gln
				65				70				75			80
Ala	Leu	Phe	Ser	Leu	Val	His	Gly	Asp	Tyr	Leu	Ala	Arg	Glu	Ile	Phe
				85				90						95	
Trp	Gln	Leu	Pro	Leu	Trp	Leu	Lys	Gly	Glu	Arg	Pro	Gln	Ala	Ser	Gly
				100				105					110		
Gly	Met	Gln	Phe	Asp	Glu	Ser	Arg	Gln	Leu	Tyr	Phe	Pro	Leu	Arg	Pro
				115				120				125			
His	Arg	Pro	Gln	Gly	Glu	Val	Tyr	Arg	Arg	Tyr	Asp	Pro	Gln	Ile	Lys


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      130              135              140
Arg Thr Leu Ser Phe Arg Val Ala Asp Val Ala Leu Asp Gly Glu Arg
145              150              155              160
Phe Thr Arg Trp Met Asn Thr Pro Arg Val Asn Ala Phe Trp Glu Met
      165              170              175
Ala Gly Pro Gln Ala Glu Gln Glu Asn Tyr Leu Arg Arg Gln Leu Asp
      180              185              190
Ser Thr Tyr Cys Tyr Pro Val Leu Gly Cys Phe Asp Asp Gln Pro Phe
      195              200              205
Gly Tyr Phe Glu Leu Tyr Trp Ala Ala Glu Asp Arg Ile Gly Arg His
      210              215              220
Tyr Arg Trp Gln Pro Phe Asp Arg Gly Leu His Met Leu Val Gly Glu
      225              230              235              240
Glu Asn Trp Arg Gly Ala Gln Tyr Ile Arg Ser Trp Leu Arg Gly Leu
      245              250              255
Ser His Tyr Leu Tyr Leu Asp Glu Pro Arg Thr Ala Arg Ile Val Ala
      260              265              270
Glu Pro Arg Phe Asp Asn Gln Arg Leu Phe Arg His Leu Ala Ser Ala
      275              280              285
Gly Phe Asp Thr Val Lys Glu Phe Asp Phe Pro His Lys Arg Ser Arg
      290              295              300
Leu Ile Met Ser Glu Arg His Arg Phe Phe His Glu Val Glu Leu
      305              310              315              320

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<210> 8631
<211> 153
<212> PRT
<213> Enterobacter cloacae

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<400> 8631
Asp Cys Asp Pro Ala Gly Ser Leu Pro Gly Ala Ala Arg Leu Arg Gly
1      5      10      15
Asp Trp Glu Ala Asp Gln Ser Ala Arg Leu Arg His Arg Ala Gly Arg
      20      25      30
Tyr Leu Leu Pro Arg Gln Arg Asn Asp Ala Ala His Ala Gly Phe Ser
      35      40      45
Gly Gln Ala Arg His Arg Arg Arg Arg Pro Glu Arg Cys Gly Ser
      50      55      60
Val Pro Glu Tyr Leu Pro Trp Gly Met Gly Pro Ala Ala Glu Pro Gln
      65      70      75      80
Leu Gly Val Ala Pro Pro Thr Thr Thr Thr Arg Trp Met Lys Pro Gly
      85      90      95
Leu Leu Thr Ile Ile Phe Thr Pro Glu Tyr Val Asp Ser Phe Ser Thr
      100      105      110
Phe Gly Asp Asp Ala Gly Ser Gln Met Leu Gln Glu Gln Lys Met Thr
      115      120      125
Ser Glu Gly Asp His His Arg Val Leu Ala Gly Asp Ile Pro Arg His
      130      135      140
Val Pro Pro Phe Arg Ser Ala Ala
145      150

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<210> 8632
<211> 407
<212> PRT
<213> Enterobacter cloacae

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<400> 8632
Ile Ile Asn Lys Asp His Arg Val Leu Thr His Thr Phe Arg Ile Asn
1      5      10      15
Ile Thr Met Lys Arg Ser His Leu Trp Val Leu Asn Pro Cys Leu Leu
      20      25      30

```

Ala Met Leu Ser Thr Ser Ala Trp Ala Glu Glu Gln Lys Glu Glu Asp
 35 40 45
 Ile Val Val Ser Ala Ser Arg Ala His Arg Ser Val Ala Glu Met Ala
 50 55 60
 Gln Thr Thr Trp Val Ile Glu Arg Ala Glu Ile Glu Gln Gln Val Gln
 65 70 75 80
 Gly Gly Lys Glu Ile Lys Asp Val Leu Ala Gln Leu Ile Pro Gly Met
 85 90 95
 Asp Val Ser Ser Gln Gly Arg Thr Asn Tyr Gly Met Asn Leu Arg Gly
 100 105 110
 Arg Ser Met Met Val Met Val Asp Gly Val Arg Leu Asn Ser Ser Arg
 115 120 125
 Ser Asp Ser Arg Gln Leu Asp Ser Ile Asp Pro Phe Asn Ile Asp Arg
 130 135 140
 Ile Glu Val Ile Ser Gly Ala Thr Ser Leu Tyr Gly Gly Gly Ser Thr
 145 150 155 160
 Gly Gly Leu Val Asn Ile Val Thr Lys Lys Gly Gln Pro Glu Thr Glu
 165 170 175
 Val Glu Phe Gln Thr Gly Ala Lys Ser Gly Phe Asn Ser His Asn Asp
 180 185 190
 His Asp Glu Asn Val Ser Ala Ala Val Ser Gly Gly Asn Asp Asn Ala
 195 200 205
 Ser Gly Arg Leu Ser Val Ser Tyr Gln Arg Tyr Gly Gly Trp Tyr Asp
 210 215 220
 Gly Asn Gly Asp Glu Val Ile Ile Asp Asn Thr Gln Thr Gly Leu Gln
 225 230 235 240
 Tyr Ser Asp Arg Ile Asp Val Met Gly Thr Gly Thr Ile Asn Ile Asp
 245 250 255
 Asp His Gln Gln Leu Gln Leu Thr Thr Gln Tyr Tyr Lys Ser Glu Ser
 260 265 270
 Asp Gly Lys His Gly Leu Phe Leu Gly Glu Asn Phe Ala Ala Val Thr
 275 280 285
 Gly Asp Ala Lys Ala Tyr Asn Lys Asp Asn Leu Asn Ser Asp Arg Ile
 290 295 300
 Pro Gly Thr Glu Arg His Leu Ile Asn Leu Gln Tyr Ser Asn Thr Asp
 305 310 315 320
 Phe Trp Gly Gln Asp Leu Val Ala Gln Ile Tyr Tyr Arg Asp Glu Ser
 325 330 335
 Leu Thr Tyr Tyr Pro Phe Pro Thr Leu Ser Lys Gly Ala Val Thr Ser
 340 345 350
 Ile Gly Ala Ser Gln Gln Lys Thr Asp Phe Tyr Gly Gly Lys Leu Thr
 355 360 365
 Leu Asn Ser Lys Pro Met Asp Asp Leu Thr Leu Thr Trp Gly Val Asp
 370 375 380
 Ala Asp His Glu Thr Phe Asp Ala Asn Gln Gln Phe Asp Leu Ser
 385 390 395 400
 Lys Ala Ala Ala Ser Arg Gly
 405

<210> 8633

<211> 238

<212> PRF

<213> Enterobacter cloacae

<400> 8633

Ile Leu Arg Leu Tyr Leu Ser Leu Glu Lys Val Glu Lys Lys Ser Asp
 1 5 10 15
 Thr Ile Glu Ser Thr Val Ser Phe Gln Val Asn Ala Met Ser Ser Asp
 20 25 30
 Lys Pro Ser His Arg Gly Ser Pro Tyr Ala Gln Glu Leu Ile Ser His
 35 40 45

```

Leu Gln Pro His Cys Thr Thr His Lys Thr Asp Pro Gly Glu Gln Leu
 50      55      60
Asn Leu Gln Val Asn Gly Gln Ser Met Cys Tyr Leu Ile Leu Asp Gly
65      70      75
Thr Val Ala Ile Tyr Arg Arg Ser Asp Asp Met Met Leu Ser Thr Ala
      85      90      95
Arg Ser Pro Ala Leu Phe Gly Leu Ala Asn Leu Thr Asp Ile Tyr Phe
      100      105      110
Thr Asp Tyr Leu Arg Thr Val Thr Pro Cys Leu Ile Gly Val Leu Thr
      115      120      125
Thr Asp Arg Val Ala Glu Ile Ile Lys Glu Lys Ala Leu Trp Gly Leu
      130      135      140
Leu Ser Asn His Leu Met Phe Val Tyr Asn Arg Leu Tyr His Asn Val
      145      150      155
Met Pro Lys Gly Ala Pro Thr Ala Tyr Glu Met Ile Arg Gln Gln Leu
      165      170      175
Val Leu Leu Met Gln Glu Asp Asp Ser Tyr Arg Arg Ser Val Thr Ala
      180      185      190
Glu Arg Tyr Ile Arg Asp Lys Thr Gln Leu Ser Arg Ser Gly Val Met
      195      200      205
Arg Ile Leu Ala Asp Leu Lys Thr Gly Gly Phe Ile Glu Met Glu Glu
      210      215      220
Gly Arg Leu Ile Lys Ile Asn Lys Leu Pro Ala Arg Tyr
      225      230      235

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<210> 8634

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 8634

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Leu Leu Phe Ile Asn Ile Met Ser Pro Thr Asp Asn Ser Ala Ala Thr
1      5      10
Pro Thr Lys Thr His Thr Ala Pro Ser Pro Ala Pro Thr Asp Arg Arg
      20      25      30
Ile Asp Ser Lys Ser Leu Leu Gly Glu Gly Arg Val Ile Ile Glu
      35      40      45
His Asp Gly Gln His Tyr Leu Leu Arg Gln Thr Asn Ala Gly Lys Leu
      50      55      60
Ile Leu Thr Lys
65

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<210> 8635

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 8635

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Arg Ser Ala Ala Val Gln Arg His His His His Pro Arg Ala Gly Glu
1      5      10      15
Arg Leu Arg Gln Ser Leu Leu Val Thr Ala Gly His Pro Ala Gly Trp
      20      25      30
Pro Gln Arg Gln Asp Leu Arg Gln Leu Ser Met Val Ile Pro Phe Gly
      35      40      45
Ala Thr Ile Gln Lys Asp Lys Ile Met Gly His Tyr Thr Arg Trp Leu
      50      55      60
Glu Leu Lys Glu Glu His Pro Gly Lys Tyr Ala Arg Asp Ile Ala Gly
65      70      75      80
Leu Met His Ile Ser Glu Ala Glu Leu Ala Phe Ala Arg Val Gly His
      85      90      95
Asp Ala Trp Arg Leu Arg Gly Glu Ile Arg Glu Ile Leu Ala Ala Leu

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Ser	His	Gln	Ser	Val	Arg	Ser	Gln	Met	Asn	Thr	Arg	Phe	Ala	Pro	Glu
1			5						10					15	
Ser	Glu	Ile	Asp	Lys	Ser	Thr	Val	Leu	Gly	Ala	Lys	Pro	Phe	Lys	His
		20						25					30		
Ile	Glu	Lys	Ile	Ile	Asp	Asn	Val	Leu	Pro	His	Ala	Glu	Arg	Gly	Ile
		35					40					45			
Ile	Ala	Arg	Gly	Glu	Ile	Ile	His	Tyr	Cys	Ser	Gly	Asp	Thr	Arg	Gln
	50					55					60				
Cys	Phe	Leu	Leu	Leu	His	Gly	Ser	Val	Ala	Leu	His	Arg	Arg	Gly	Asp
65					70					75					80
Gly	Ile	Val	Leu	Asn	Ser	Glu	Ser	Ala	Pro	Phe	Ile	Leu	Gly	Val	Ser
				85					90					95	
Ser	Gln	Leu	Ser	Ser	Glu	His	Leu	Tyr	Val	Arg	Ala	Leu	Glu	Thr	Ser
		100						105					110		
Glu	Val	Ala	Ser	Ser	Val	Ser	Leu	Ala	Arg	Phe	Asn	His	Val	Val	Ala
		115						120					125		
Gln	Asn	Leu	Trp	Glu	His	Phe	Ser	Asn	Leu	Leu	Ile	Tyr	Thr	Ala	Ser

130	135	140
Arg Val Tyr Glu His Cys	Ala Gln Ile Ser	Gln Met Ser Ala Tyr Asp
145	150	155
Ile Ile Arg Phe Gln Leu Val Glu Leu Met	Gln Glu Pro Glu Ala Ile	160
165	170	175
Ile Gln Asn Ile Thr Ala Ala Ala Tyr Ile Lys Ser Arg Thr Tyr Leu	180	185
Ser Arg Ser Gly Ile Met Arg Ile Leu Ala Glu Leu Arg Thr Gly Lys	195	200
Tyr Ile Thr Met Glu Arg Gly Val Leu Val Glu Ile His His Leu Pro	210	215
Arg Lys Tyr	220	
225		

<210> 8637

<211> 689

<212> PRT

<213> Enterobacter cloacae

<400> 8637

Leu Asn Lys Pro Asp Asn Thr Phe Ala Ser His Pro Gly Asp Pro Gln	1	5	10	15
Ala Ala Ser Ala Phe Gln Phe Leu Trp Arg Val Ala Met Pro His Leu	20	25	30	
Gln Ser Ala Ser Leu Arg Pro Ser Leu Leu Ala Leu Ala Ile Val Ser	35	40	45	
Thr Leu Pro Gly Val Thr Phe Ala Ala Ala Asp Glu Ile Thr Val Thr	50	55	60	
Ala Thr Gly Asn Ala Arg Ser Ala Phe Glu Ala Pro Met Met Val Ser	65	70	75	80
Val Ile Asp Ala Thr Ala Pro Glu Asn Gln Thr Ala Ser Ser Ala Ala	85	90	95	
Asp Leu Leu Arg Lys Val Pro Gly Leu Thr Leu Asp Gly Thr Gly Arg	100	105	110	
Thr Asn Gly Gln Asp Val Asn Leu Arg Gly Tyr Asp Arg Arg Gly Val	115	120	125	
Leu Val Leu Val Asp Gly Val Arg Gln Gly Thr Asp Thr Gly His Leu	130	135	140	
Asn Ser Thr Phe Leu Asp Pro Ala Leu Ile Lys Arg Ile Glu Val Val	145	150	155	160
Arg Gly Pro Ser Ala Leu Leu Tyr Gly Ser Gly Ala Leu Gly Gly Val	165	170	175	
Ile Ser Tyr Asp Thr Val Asp Ala Ser Asp Leu Leu Asp Ala Gly Lys	180	185	190	
Asn Ser Gly Tyr Arg Val Phe Ala Thr Gly Ala Thr Gly Asp His Ser	195	200	205	
Ile Gly Met Gly Ala Ser Ala Tyr Gly Arg Thr Asp Thr Leu Asp Gly	210	215	220	
Leu Val Ser Trp Ser Ser Arg Asp Arg Gly Asp Ile Arg Gln Ser Asp	225	230	235	240
Gly Ala Arg Ala Pro Asn Asp Glu Ser Ile Asn Asn Met Leu Ala Lys	245	250	255	
Gly Ser Trp Lys Ile Asp Pro Ala Gln Thr Leu Ser Gly Ser Leu Arg	260	265	270	
Tyr Tyr Asn Asn Asp Ala Gln Glu Pro Lys Asn Pro Gln Thr Thr Asp	275	280	285	
Ala Ser Ser Ser Asn Pro Met Thr Asp Arg Ser Thr Ile Gln Arg Asp	290	295	300	
Ala Gln Leu Gly Tyr Arg Ile Ala Pro Ala Gly Asn Asn Trp Leu Asn	305	310	315	320
Ala Asp Ala Lys Ile Tyr Trp Ser Glu Ala Arg Ile Asn Ala Gln Asn				

325 330 335
 Ile Asp Ala Ser Gly Glu Phe Leu Lys Gln Thr Thr Lys Gly Gly Lys
 340 345 350
 Val Glu Asn Arg Thr Arg Leu Phe Ser Asp Ser Phe Ala Ser His Leu
 355 360 365
 Leu Thr Tyr Gly Gly Glu Tyr Tyr Arg Gln Glu Gln His Pro Gly Gly
 370 375 380
 Ala Thr Thr Gly Phe Pro Asp Ala Lys Ile Asp Phe Ser Ser Gly Trp
 385 390 395 400
 Leu Gln Asp Glu Ile Thr Leu Arg Asp Leu Pro Val Thr Leu Leu Gly
 405 410 415
 Gly Thr Arg Tyr Asp Asn Tyr Arg Gly Ser Ser Ser Gly Tyr Asp Asp
 420 425 430
 Val Asp Ala Asp Lys Trp Ser Ser Arg Ala Gly Leu Thr Val Ser Pro
 435 440 445
 Ala Asp Trp Leu Met Leu Phe Gly Ser Tyr Ala Gln Ala Phe Arg Ala
 450 455 460
 Pro Thr Met Gly Glu Met Tyr Asn Asp Ser Lys His Phe Ser Ile Gly
 465 470 475 480
 Ser Phe Tyr Thr Asn Tyr Trp Val Pro Asn Pro Asn Leu Arg Pro Glu
 485 490 495
 Thr Asn Glu Thr Gln Glu Phe Gly Phe Gly Leu Arg Phe Asp Asp Leu
 500 505 510
 Leu Leu Ala Asn Asp Ala Leu Glu Phe Lys Ala Ser Tyr Phe Asp Thr
 515 520 525
 Lys Ala Lys Asp Tyr Ile Ser Thr Thr Val Asp Phe Ala Ala Ala Thr
 530 535 540
 Thr Met Ser Tyr Asn Val Pro Asn Ala Lys Ile Trp Gly Trp Asp Met
 545 550 555 560
 Met Ala Thr Tyr Ala Thr Ser Leu Phe Asn Leu Asp Val Ala Tyr Asn
 565 570 575
 Arg Thr Arg Gly Lys Asp Thr Asp Thr Gly Glu Tyr Ile Ser Ser Ile
 580 585 590
 Asn Pro Asp Thr Val Thr Ser Lys Leu Asp Ile Pro Val Ala Gln Ser
 595 600 605
 Gly Phe Ser Val Gly Trp Ile Gly Thr Phe Val Glu Arg Ser Thr His
 610 615 620
 Ile Ser Ser Ser Tyr Ser Glu Gln Pro Gly Tyr Ala Val Asn Asp Phe
 625 630 635 640
 Tyr Val Ser Tyr Lys Gly Gln Gln Gln Phe Lys Gly Ile Thr Thr Thr
 645 650 655
 Leu Val Leu Gly Asn Ala Phe Asp Lys Ala Tyr Trp Ser Pro Gln Gly
 660 665 670
 Ile Pro Gln Asp Gly Arg Asn Gly Lys Ile Phe Val Ser Tyr Gln Trp
 675 680 685

<210> 8638

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 8638

His Gly Pro Ala Gly Leu Gln Arg Pro His Ala Glu Ser His Thr Thr
 1 5 10 15
 Ala Ala Cys Gln Ser Gly Ala Thr Ala Leu Met Ser Arg Arg Ile Thr
 20 25 30
 Leu Ser Leu Trp Leu Leu Ala Gly Ser Leu Thr Val Met Thr Ile Met
 35 40 45
 Ala Thr Gly Phe Gly Ala Leu Arg Leu Pro Val Asn Val Leu Trp Ser

50	55	60
Gly Ser Asp Glu Thr Leu	Arg His Ile Trp Leu	Thr Ile Arg Leu Pro
65	70	75
Arg Val Leu Leu Ala Leu	Val Ile Gly Gly Ser Leu	Ala Ala Gly
	85	90
Cys Val Met Gln Gly Leu	Phe Arg Asn Pro Leu	Ala Asp Pro Gly Leu
	100	105
Leu Gly Ile Ser Ser Gly	Ala Ala Leu Ala Val	Ala Leu Trp Val Val
	115	120
Leu Pro Leu Ala Leu Pro	Ala Leu Val Met Leu	Tyr Ala Pro Met Leu
	130	135
Ala Ala Phe Leu Gly Ala	Leu Ala Ala Thr Gly	Val Ile Phe Leu Leu
	145	150
Ser Lys Gln His Asp Thr	Ser Leu Ser Arg Leu	Leu Leu Val Gly Ile
	165	170
Ala Ile Asn Ala Leu Cys	Gly Ala Ala Val Gly	Val Leu Ser Trp Val
	180	185
Ser Asn Asp Ala Gln Leu	Arg Gln Leu Ser Leu	Trp Gly Met Gly Ser
	195	200
Leu Gly Gln Ala Gln Trp	Ser Thr Leu Leu Ala	Val Thr Ser Leu Met
	210	215
Val Pro Ala Ala Leu Ala	Ile Trp Arg Cys Ala	Ser Thr Leu Asn Leu
	225	230
Leu Gln Leu Gly Glu Glu	Ala His Tyr Leu Gly	Val Asp Val Ala
	245	250
Leu Val Gln Arg Ile Leu	Leu Leu Cys Ser Ala	Leu Leu Val Ala Ala
	260	265
Ala Val Ala Val Ser Gly	Val Ile Gly Phe Val	Gly Leu Val Val Pro
	275	280
His Leu Met Arg Met Trp	Leu Gly Ala Asp His	Arg Ala Thr Leu Pro
	290	295
Gly Thr Val Leu Ala Gly	Ala Leu Leu Leu Leu	Val Ala Asp Thr Val
	305	310
Ala Arg Thr Met Val Ala	Pro Ala Glu Met Pro	Val Gly Leu Leu Thr
	325	330
Ser Ile Leu Gly Ala Pro	Trp Phe Leu Trp Leu	Ile Phe Arg Arg Gly
	340	345
Glu Gln His Gly		350
	355	

<210> 8639

<211> 392

<212> BRT

<213> Enterobacter cloacae

<400> 8639

Arg Asp Ala Val Tyr Ile	Pro Ile Ser Leu Ala Gly	Val His Leu Arg
1	5	10
Lys Val Ser Phe Met Val	Asn Leu Arg Gln Pro	Arg Asp Val Ala Gln
	20	25
Ile Leu Leu Ser Val Leu	Phe Leu Ala Ile Met	Ile Ile Ala Cys Leu
	35	40
Trp Ile Val Arg Pro Phe	Val Leu Gly Phe Ala	Trp Ala Ala Thr Val
	50	55
Val Val Ala Thr Trp Pro	Leu Leu Leu Arg Leu	Gln Lys Leu Leu Phe
	65	70
Gly Arg Arg Gly Leu Ala	Val Leu Val Met Thr	Leu Leu Leu Phe Leu
	85	90
Leu Phe Ile Ile Pro Ile	Ala Leu Leu Val Asn	Ser Leu Val Asp Ser
	100	105
Ser Gly Pro Val Ile Arg	Ala Val Thr Ser Gly	Asp Met Thr Leu Pro
	110	

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115      120      125
Asp Leu Ala Trp Leu Asn Ser Ile Pro Val Val Gly Ala Lys Leu Tyr
130      135      140
Ser Gly Trp His Ser Leu Glu Met Gly Gly Ser Ala Leu Met Ala
145      150      155      160
Lys Val Arg Pro Tyr Ile Gly Thr Thr Thr Thr Phe Val Gly Gln
165      170      175
Ala Ala His Ile Gly Arg Phe Met Met His Cys Thr Leu Met Leu Val
180      185      190
Phe Ser Ala Leu Leu Tyr Trp Arg Gly Glu Gln Val Ala Leu Gly Val
195      200      205
Arg His Phe Ala Thr Arg Leu Ala Gly Lys Arg Gly Asp Ala Ala Val
210      215      220
Leu Leu Ala Ala His Ala Val Arg Ala Val Ala Leu Gly Val Val Val
225      230      235      240
Thr Ala Leu Val Gln Ala Val Leu Gly Gly Ile Gly Leu Ala Ile Ser
245      250      255
Gly Val Pro Tyr Ala Thr Ile Phe Thr Val Val Met Leu Met Thr Cys
260      265      270
Leu Ala Gln Leu Gly Pro Leu Leu Val Leu Val Pro Cys Ile Ile Trp
275      280      285
Leu Tyr Trp Thr Gly Asp Thr Thr Trp Gly Thr Val Leu Leu Val Trp
290      295      300
Ser Cys Val Val Gly Thr Met Asp Asn Val Ile Arg Pro Leu Leu Ile
305      310      315      320
Arg Met Gly Ala Asp Leu Pro Leu Ile Leu Ile Leu Ser Gly Val Ile
325      330      335
Gly Gly Leu Ile Ala Phe Gly Met Ile Gly Leu Phe Ile Gly Pro Val
340      345      350
Leu Leu Ala Val Thr Trp Arg Leu Phe Ser Ala Trp Val His Glu Val
355      360      365
Pro Pro Pro Gly Thr Asp Pro Asp Val Ile Leu Ser Glu Leu Glu Glu
370      375      380
Leu Glu Asp Lys Asn Ala Gln
385      390

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<210> 8640

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 8640

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Ile Phe Asn Phe Ser Asp Ser Phe Pro Ala Leu Asp Asn Pro Met Ile
1      5      10      15
Pro Ile Asp Ser Gly Lys Asn Leu Arg Asn Lys Ala Ala Asn Arg Lys
20      25      30
Met Lys Ser Thr Phe Gln Glu Asn Gln Lys His His Phe Ile Leu Asn
35      40      45
Ser Asp Lys Phe Phe Ala Val Lys Leu Thr Phe Leu Ile Tyr Ala Phe
50      55      60
Arg Gln Leu Arg Thr Leu Phe Arg Val Asp Lys Met Asp Asn Ala Val
65      70      75      80
Asp Arg His Val Phe Tyr Ile Ser Asp Gly Thr Ala Ile Thr Ala Glu
85      90      95
Val Leu Gly His Ala Val Met Ser Gln Phe Pro Val Ser Ile Asn Ser
100      105      110
Ile Thr Leu Pro Phe Val Glu Asn Glu Ser Arg Ala Lys Ala Val Lys
115      120      125
Asp Gln Ile Asp Ala Ile Tyr Gln Gln Thr Gly Val Arg Pro Leu Val
130      135      140
Phe Tyr Ser Ile Val Ile Pro Glu Ile Arg Asn Ile Ile Leu Gln Ser

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145          150          155          160
Glu Gly Phe Cys Gln Asp Ile Val Gln Ala Leu Val Ala Pro Leu Gln
165          170          175
Ser Glu Leu Lys Leu Asp Pro Thr Pro Ile Ala His Arg Thr His Gly
180          185          190
Leu Asn Pro Gly Asn Leu Thr Lys Tyr Asp Ala Arg Ile Ala Ala Ile
195          200          205
Asp Tyr Thr Leu Ala His Asp Asp Gly Ile Ser Leu Arg Asn Leu Asp
210          215          220
Gln Ala Gln Val Ile Leu Leu Gly Val Ser Arg Cys Gly Lys Thr Pro
225          230          235          240
Thr Ser Leu Tyr Leu Ala Met Gln Phe Gly Ile Arg Ala Ala Asn Tyr
245          250          255
Pro Phe Ile Ala Asp Asp Met Asp Asn Leu Val Leu Pro Ala Ala Leu
260          265          270
Lys Pro Leu Gln His Lys Leu Phe Gly Leu Thr Ile Asn Pro Glu Arg
275          280          285
Leu Ala Ala Ile Arg Glu Glu Arg Arg Glu Asn Ser Arg Tyr Ala Ser
290          295          300
Met Arg Gln Cys Arg Met Glu Val Ser Glu Val Glu Ala Leu Tyr Arg
305          310          315          320
Lys Asn Gln Ile Pro Trp Leu Asn Ser Thr Asn Tyr Ser Val Glu Glu
325          330          335
Ile Ala Thr Lys Ile Leu Asp Ile Met Gly Leu Asn Arg Arg Met Tyr
340          345          350

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<210> 8641

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 8641

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Ser Lys Lys Phe Leu Arg His Ser Met Asn Lys Thr Asp Glu Leu Arg
1      5      10      15
Thr Ala Arg Ile Asp Ser Leu Val Thr Pro Ala Glu Leu Ala Arg Leu
20     25     30
His Pro Val Ser Ala Glu Val Ala Asp His Val Thr Ala Ser Arg Arg
35     40     45
Arg Ile Glu Lys Ile Leu Asn Gly Glu Asp Lys Arg Leu Leu Val Val
50     55     60
Ile Gly Pro Cys Ser Ile His Asp Leu Asp Ala Ala Met Asp Tyr Ala
65     70     75     80
Gln Arg Leu Gln Thr Leu Arg Gly Thr Tyr Gln Asp Arg Leu Glu Ile
85     90     95
Val Met Arg Thr Tyr Phe Glu Lys Pro Arg Thr Val Val Gly Trp Lys
100    105    110
Gly Leu Ile Ser Asp Pro Asp Leu Asn Gly Ser Tyr Arg Val Asn His
115    120    125
Gly Ile Ala Leu Ala Arg Lys Leu Leu Gln Val Asn Lys Leu Gly
130    135    140
Val Pro Thr Ala Thr Glu Phe Leu Asp Met Val Thr Gly Gln Phe Ile
145    150    155    160
Ala Asp Leu Ile Ser Trp Gly Ala Ile Gly Ala Arg Thr Thr Glu Ser
165    170    175
Gln Ile His Arg Glu Met Ala Ser Ala Leu Ser Cys Pro Val Gly Phe
180    185    190
Lys Asn Gly Thr Asp Gly Asn Thr Arg Ile Ala Val Asp Ala Ile Arg
195    200    205
Ala Ser Arg Ala Ser His Met Phe Leu Ser Pro Asp Lys Asn Gly Gln

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210 215 220
 Met Thr Ile Tyr Gln Thr Ser Gly Asn Pro Phe Gly His Ile Ile Met
 225 230 235 240
 Arg Gly Gly Lys Lys Pro Asn Tyr His Ala Glu Asp Ile Ala Ala Ala
 245 250 255
 Cys Glu Thr Leu Ala Glu Phe Asp Leu Pro Glu His Leu Val Val Asp
 260 265 270
 Phe Ser His Gly Asn Cys Gln Lys Gln His Arg Arg Gln Leu Asp Val
 275 280 285
 Cys Glu Glu Val Cys Gln Gln Ile Arg Ser Gly Ser Thr Ala Ile Ala
 290 295 300
 Gly Ile Met Ala Glu Ser Phe Ile Lys Glu Gly Thr Gln Lys Ile Val
 305 310 315 320
 Ala Gly Gln Gln Met Val Tyr Gly Gln Ser Ile Thr Asp Pro Cys Leu
 325 330 335
 Ser Trp Glu Asp Ser Glu Arg Leu Leu Glu Met Leu Ala Ser Ala Val
 340 345 350
 Asp Ser Arg Phe
 355

<210> 8642

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8642

Arg Pro Asp Ala Gly Arg Ala Gly Gly Met Lys Asn Trp Phe Ala Leu
 1 5 10 15
 Leu Cys Ala Leu Pro Leu Val Ala Val Ala Pro Glu Arg Ile Val
 20 25 30
 Ala Leu Gly Gly Asp Val Thr Glu Ile Val Tyr Ala Leu Gly Ala Glu
 35 40 45
 Ser Ser Leu Val Ala Arg Asp Ser Thr Ser Gln Trp Pro Gln Ala Thr
 50 55 60
 Asn Ala Leu Pro Asp Val Gly Tyr Leu Arg Gln Leu Asn Ala Glu Gly
 65 70 75 80
 Ile Leu Ser Val Arg Pro Thr Leu Val Leu Ala Ser Asp Gln Ala Gln
 85 90 95
 Pro Ser Leu Ala Leu Lys Gln Val Glu Gln Ser His Val Arg Val Val
 100 105 110
 Thr Val Pro Gly Thr Pro Asp Leu Arg Ala Ile Asp Glu Lys Val Arg
 115 120 125
 Val Ile Ala Gln Ala Thr His His Glu Ala Gln Gly Glu Thr Leu Arg
 130 135 140
 Ser Ser Leu Arg Gln Ala Leu Ala Ala Leu Pro Ser Met Pro Leu Asn
 145 150 155 160
 Lys Arg Val Leu Phe Ile Leu Ser His Gly Gly Met Thr Ala Met Ala
 165 170 175
 Ala Gly Gln Gln Thr Gly Ala Asp Ala Ala Ile Arg Ala Ala Gly Leu
 180 185 190
 Gln Asn Ala Met Gln Gly Phe Thr Arg Tyr Gln Pro Leu Ser Gln Glu
 195 200 205
 Gly Val Met Ala Ser Gln Pro Asp Leu Val Val Ile Ser Gln Glu Gly
 210 215 220
 Leu Asn Ala Leu Gly Gly Glu Glu Asn Leu Trp Lys Leu Pro Gly Leu
 225 230 235 240
 Ala Gln Thr Pro Ala Gly Arg Ser Lys Gln Val Leu Ala Ile Asp Asp
 245 250 255
 Met Ala Leu Leu Gly Phe Ser Val Arg Thr Pro Lys Ala Ile Gln Gln
 260 265 270
 Leu Arg Ala Arg Ala Glu Gln Leu Pro

275

280

<210> 8643

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 8643

Cys Ala Cys Gly Trp Ala Pro Ile Thr Gly Gln Pro Ser Pro Ala Arg
 1 5 10 15
 Tyr Ser Arg Ala Leu Tyr Cys Cys Trp Trp Arg Ile Arg Ser Arg Ala
 20 25 30
 Pro Trp Ser Pro Arg Gln Lys Cys Arg Ser Ala Cys Ser Pro Val Ser
 35 40 45
 Leu Ala Leu Pro Gly Ser Tyr Gly Ser Phe Phe Val Val Glu Asn Ser
 50 55 60
 Met Ala Glu Arg Tyr Thr Ala Glu Asn Leu Thr Phe Thr Arg Ser Gly
 65 70 75 80
 Arg Thr Leu Thr Asp Asn Val Ser Leu Ser Leu Ser Gln Gly Glu Leu
 85 90 95
 Val Thr Leu Ile Gly Pro Asn Gly Ala Gly Lys Ser Thr Leu Leu Arg
 100 105 110
 Leu Leu Thr Gly Tyr Leu Lys Pro Asp Ser Gly Gly Cys Ser Leu Ala
 115 120 125
 Gly Lys Ala Leu Asp Glu Trp His Pro Gln Val Leu Ser Arg Tyr Arg
 130 135 140
 Ala Val Met Arg Gln Gln Ser Gln Pro Glu Phe Asp Trp Gln Val Glu
 145 150 155 160
 Glu Ile Val Gly Met Gly Arg Ala Pro Trp Thr Arg His Pro Glu Pro
 165 170 175
 Ser Ile Val Arg Glu Val Leu Gln Leu Thr Gly Cys Leu Pro Leu Ala
 180 185 190
 Gly Arg Arg Tyr His Ala Leu Ser Gly Gly Glu Gln Gln Arg Val Gln
 195 200 205
 Leu Ala Arg Ala Leu Ala Gln Leu Trp Arg Asp Gly Thr Pro Arg Gly
 210 215 220
 Trp Leu Phe Leu Asp Glu Pro Thr Ser Ala Leu Asp Leu Tyr His Gln
 225 230 235 240
 Gln His Leu Leu Arg Leu Leu Lys Ser Leu Thr Arg Gln Gly His Leu
 245 250 255
 His Ala Cys Val Val Leu His Asp Leu Asn Leu Ala Ala Leu Trp Ser
 260 265 270
 Asp Arg Ile Leu Leu Leu His Asn Gly Arg Ile Val Ser Gln Gly Ile
 275 280 285
 Pro Glu Thr Val Leu Gln Ala Asp Ala Leu Ala Arg Trp Tyr Gly Ala
 290 295 300
 Gln Val His Val Gly Arg His Pro Ala His Ala Pro Gln Val Phe
 305 310 315 320
 Leu Ala Pro

<210> 8644

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 8644

Ala Ser Arg Trp Arg Leu Phe Leu Cys Leu Lys Leu Arg Glu Tyr Val
 1 5 10 15
 Gln Gln Phe Gly Val Cys Thr Asp Ile Met Arg Lys Thr Met Ser His
 20 25 30

Leu Ala Glu Leu Val Ala Ser Ala Thr Ala Ala Ile Asn Gln Ala Ser
 35 40 45
 Asp Val Ala Ala Leu Asp Asn Val Arg Val Glu Tyr Leu Gly Lys Lys
 50 55 60
 Gly His Leu Thr Leu Gln Met Thr Thr Leu Arg Glu Leu Pro Ala Glu
 65 70 75 80
 Glu Arg Pro Ala Ala Gly Ala Val Ile Asn Glu Ala Lys Glu Gln Val
 85 90 95
 Gln Gln Ala Leu Asn Ala Arg Lys Ala Glu Leu Glu Ser Ala Val Leu
 100 105 110
 Asn Ala Arg Leu Ala Ala Glu Thr Ile Asp Val Ser Leu Pro Gly Arg
 115 120 125
 Arg Ile Glu Asn Gly Gly Leu His Pro Val Thr Arg Thr Ile Asp Arg
 130 135 140
 Ile Glu Ser Phe Phe Gly Glu Leu Gly Phe Thr Val Ala Thr Gly Pro
 145 150 155 160
 Glu Ile Glu Asp Asp Tyr His Asn Phe Asp Ala Leu Asn Ile Pro Gly
 165 170 175
 His His Pro Ala Arg Ala Asp His Asp Thr Phe Trp Phe Asp Ala Thr
 180 185 190
 Arg Leu Leu Arg Thr Gln Thr Ser Gly Val Gln Ile Arg Thr Met Lys
 195 200 205
 Glu Gln Glu Pro Pro Ile Arg Ile Ile Ala Pro Gly Arg Val Tyr Arg
 210 215 220
 Asn Asp Tyr Asp Gln Thr His Thr Pro Met Phe His Gln Met Glu Gly
 225 230 235 240
 Leu Ile Val Asp Lys Asn Ile Ser Phe Thr Asn Leu Lys Gly Thr Leu
 245 250 255
 His Asp Phe Leu Asn Asn Phe Phe Glu Glu Asp Leu Gln Val Arg Phe
 260 265 270
 Arg Pro Ser Tyr Phe Pro Phe Thr Glu Pro Ser Ala Glu Val Asp Val
 275 280 285
 Met Gly Lys Asn Gly Lys Trp Leu Glu Val Leu Gly Cys Gly Met Val
 290 295 300
 His Pro Asn Val Leu Arg Asn Val Gly Ile Asp Pro Glu Val Tyr Ser
 305 310 315 320
 Gly Phe Ala Phe Gly Met Gly Met Glu Arg Leu Thr Met Leu Arg Tyr
 325 330 335
 Gly Val Thr Asp Leu Arg Ala Phe Phe Glu Asn Asp Leu Arg Phe Leu
 340 345 350
 Lys Gln Phe Lys
 355

<210> 8645

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 8645

Leu Lys Arg Pro Leu Thr Arg Pro Phe Phe Phe Ala Leu Phe Ala Lys
 1 5 10 15
 Pro Ala Val Lys Ser Met Ile Ser Gln Pro Asp Asn Leu Ser Phe Met
 20 25 30
 Leu Asp Leu Ala Arg Leu Gln His Arg Ser Asp Leu Arg Arg Leu Cys
 35 40 45
 Leu Leu Gly Val Leu Leu Ile Val Ser Thr Thr Val Ser Leu Cys Ala
 50 55 60
 Gly Asp Arg Trp Leu Gly Pro Glu Ser Trp Phe Thr Pro Glu Gly Gln
 65 70 75 80
 Leu Phe Val Trp Gln Ile Arg Leu Pro Arg Thr Leu Ala Val Leu Leu
 85 90 95

Val Gly Ala Ala Leu Ala Leu Cys Gly Thr Ile Met Gln Ala Leu Phe
 100 105 110
 Glu Asn Pro Leu Ala Glu Pro Gly Leu Leu Gly Val Ser Asn Gly Ala
 115 120 125
 Gly Val Gly Leu Ile Ala Ala Val Met Leu Gly Gly Gly Glu Leu Ser
 130 135 140
 Gly Trp Gly Ile Ser Leu Ser Ala Ile Leu Gly Ala Leu Leu Ile Thr
 145 150 155 160
 Leu Ile Leu Leu Arg Phe Ala Arg Arg His Leu Ser Thr Ser Arg Leu
 165 170 175
 Leu Leu Ala Gly Val Ala Leu Gly Ile Ile Cys Ser Ala Leu Met Thr
 180 185 190
 Trp Ala Val Tyr Phe Ser Thr Ser Phe Asp Leu Arg Gln Leu Met Tyr
 195 200 205
 Trp Met Met Gly Gly Phe Gly Gly Val Asp Trp Arg Gln Gly Trp Leu
 210 215 220
 Met Val Leu Leu Ile Pro Val Ile Leu Trp Met Val Phe Gln Ala Gln
 225 230 235 240
 Pro Leu Asn Ile Leu Ala Leu Gly Glu Thr Ser Ala Arg Gln Leu Gly
 245 250 255
 Met Pro Ile Gly Phe Trp Arg Asn Val Leu Val Ile Ala Ile Gly Trp
 260 265 270
 Met Val Gly Val Ser Val Ala Leu Ala Gly Ala Ile Gly Phe Ile Gly
 275 280 285
 Leu Val Ile Pro His Met Leu Arg Leu Cys Gly Ile Thr Asp His Arg
 290 295 300
 Thr Leu Leu Pro Ala Ser Ala Val Ala Gly Ala Ala Thr Leu Leu Val
 305 310 315 320
 Ala Asp Ile Ile Ala Arg Leu Ala Leu Thr Ala Ala Glu Leu Pro Ile
 325 330 335
 Gly Val Val Thr Ala Thr Leu Gly Ala Pro Val Phe Ile Trp Leu Leu
 340 345 350
 Leu Lys Ala Gly Arg
 355

<210> 8646

<211> 187

<212> FRT

<213> Enterobacter cloacae

<400> 8646

Gly Asn Ala Met Gln Ser Asp Ile Leu Asn Thr Glu Val Thr Thr Ile
 1 5 10 15
 Asp Gly Glu Lys Thr Thr Leu Val Gly Tyr Lys Gly Lys Val Leu Leu
 20 25 30
 Ile Val Asn Val Ala Ser Lys Cys Gly Leu Thr Pro Gln Tyr Glu Gln
 35 40 45
 Leu Glu Asn Ile His Lys Ala Trp Glu Lys Asp Gly Phe Thr Val Leu
 50 55 60
 Gly Phe Pro Cys Asn Gln Phe Leu Gly Gln Glu Pro Gly Ser Glu Glu
 65 70 75 80
 Glu Ile Lys Thr Phe Cys Ser Thr Thr Tyr Gly Val Thr Phe Pro Met
 85 90 95
 Phe Ser Lys Ile Asp Val Asn Gly Glu Asn Arg His Pro Leu Tyr Ala
 100 105 110
 Lys Leu Val Ala Ala Ala Pro Thr Ala Val Ala Pro Glu Glu Ser Gly
 115 120 125
 Phe Tyr Glu Arg Met Ala Ser Lys Gly Arg Ala Pro Leu Tyr Pro Asp
 130 135 140
 Asp Ile Leu Trp Asn Phe Glu Lys Phe Leu Ile Gly Arg Asp Gly Gln
 145 150 155 160

Val Val Gln Arg Phe Ser Pro Asp Met Thr Pro Glu Asp Pro Ile Val
 165 170 175
 Met Glu Ser Ile Lys Leu Ala Leu Ala Lys
 180 185

<210> 8647

<211> 811

<212> PRT

<213> Enterobacter cloacae

<400> 8647

Ile Arg Ser Gln Val Phe Leu Thr Pro Ile Lys Tyr His Lys Arg Ile
 1 5 10 15
 Val Ser Met Ser Asn Asn Gly Ser Ser Pro Leu Val Leu Trp Tyr Asn
 20 25 30
 Gln Leu Gly Met Asn Asp Val Asp Arg Val Gly Gly Lys Asn Ala Ser
 35 40 45
 Leu Gly Glu Met Ile Thr Asn Leu Ser Gly Met Gly Val Ser Val Pro
 50 55 60
 Asn Gly Phe Ala Thr Thr Ala Asp Ala Phe Asn Leu Phe Leu Asp Gln
 65 70 75 80
 Ser Gly Val Asn Gln Arg Ile Tyr Asp Leu Leu Asp Lys Thr Asp Ile
 85 90 95
 Asp Asp Val Thr Glu Leu Ala Lys Ala Gly Ala Gln Ile Arg Gln Trp
 100 105 110
 Ile Ile Asp Thr Pro Phe Gln Pro Glu Leu Glu Lys Ala Ile His Asp
 115 120 125
 Ala Tyr Asn Gln Leu Ser Ala Asp Asp Ala Gln Ala Ser Phe Ala Val
 130 135 140
 Arg Ser Ser Ala Thr Ala Glu Asp Met Pro Asp Ala Ser Phe Ala Gly
 145 150 155 160
 Gln Gln Glu Thr Phe Leu Asn Val Gln Gly Tyr Glu Ala Val Leu Val
 165 170 175
 Ala Val Lys His Val Phe Ala Ser Leu Phe Asn Asp Arg Ala Ile Ser
 180 185 190
 Tyr Arg Val His Gln Gly Tyr Asp His Arg Gly Val Ala Leu Ser Ala
 195 200 205
 Gly Val Gln Arg Met Val Arg Ser Asp Val Gly Ser Ser Gly Val Met
 210 215 220
 Phe Ser Ile Asp Thr Glu Ser Gly Phe Asp Gln Val Val Phe Ile Thr
 225 230 235 240
 Ser Ala Trp Gly Leu Gly Glu Met Val Val Gln Gly Ala Val Asn Pro
 245 250 255
 Asp Glu Phe Tyr Val His Lys Pro Thr Leu Ala Ala Asn Arg Pro Ala
 260 265 270
 Val Val Arg Arg Thr Met Gly Ser Lys Lys Ile Arg Met Ile Tyr Ala
 275 280 285
 Pro Thr Gln Glu His Gly Lys Gln Val Thr Ile Glu Asp Val Pro Gln
 290 295 300
 Glu Gln Arg Asp Arg Phe Ser Leu Thr Asp Ala Glu Val Glu Glu Leu
 305 310 315 320
 Ala Lys Gln Ala Val Gln Ile Glu Lys His Tyr Gly Arg Pro Met Asp
 325 330 335
 Ile Glu Trp Ala Lys Asp Gly His Thr Gly Lys Leu Phe Ile Val Gln
 340 345 350
 Ala Arg Pro Glu Thr Val Arg Ser Arg Gly Gln Val Met Glu Arg Tyr
 355 360 365
 Thr Leu His Ala Gln Gly Lys Ile Val Ala Glu Gly Arg Ala Ile Gly
 370 375 380
 His Arg Ile Gly Ala Gly Pro Val Lys Val Ile His Asp Ile Ser Glu
 385 390 395 400

Met Asn Arg Ile Gln Pro Gly Asp Val Leu Val Thr Asp Met Thr Asp
 405 410
 Pro Asp Trp Glu Pro Ile Met Lys Lys Ala Ala Ala Ile Val Thr Asn
 420 425 430
 Arg Gly Gly Arg Thr Cys His Ala Ala Ile Ile Ala Arg Gly Leu Gly
 435 440 445
 Ile Pro Ala Val Val Gly Cys Gly Asp Ala Thr Glu Arg Met Lys Asp
 450 455 460
 Asp Gln Asn Val Thr Val Ser Cys Ala Glu Gly Asp Thr Gly Tyr Val
 465 470 475 480
 Tyr Ala Asp Ile Leu Asp Phe Ser Val Lys Ser Ser Ser Val Asp Thr
 485 490 495
 Met Pro Asp Leu Pro Leu Lys Ile Met Met Asn Val Gly Asn Pro Asp
 500 505 510
 Arg Ala Phe Asp Phe Ala Cys Leu Pro Asn Glu Gly Val Gly Leu Ala
 515 520 525
 Arg Leu Glu Phe Ile Ile Asn Arg Met Ile Gly Val His Pro Arg Ala
 530 535 540
 Leu Leu Glu Phe Asp Asp Gln Asp Ala Lys Leu Gln Asn Glu Ile Arg
 545 550 555 560
 Glu Met Met Lys Gly Tyr Asp Ser Pro Arg Glu Phe Tyr Val Gly Arg
 565 570 575
 Leu Thr Glu Gly Ile Ala Thr Leu Gly Ala Ala Phe Tyr Pro Lys Arg
 580 585 590
 Val Ile Val Arg Leu Ser Asp Phe Lys Ser Asn Glu Tyr Ala Asn Leu
 595 600 605
 Val Gly Gly Glu Arg Tyr Glu Pro Glu Glu Glu Asn Pro Met Leu Gly
 610 615 620
 Phe Arg Gly Ala Gly Arg Tyr Val Ser Glu Ser Phe Arg Asp Cys Phe
 625 630 635 640
 Ala Leu Glu Cys Glu Ala Val Lys Arg Val Arg Asn Asp Met Gly Leu
 645 650 655
 Thr Asn Val Glu Ile Met Ile Pro Phe Val Arg Thr Val Asp Gln Ala
 660 665 670
 Lys Ala Val Val Asp Glu Leu Ala Arg Gln Gly Leu Lys Arg Gly Glu
 675 680 685
 Asn Gly Leu Lys Ile Ile Met Met Cys Glu Ile Pro Ser Asn Ala Leu
 690 695 700
 Leu Ala Glu Gln Phe Leu Glu His Phe Asp Gly Phe Ser Ile Gly Ser
 705 710 715 720
 Asn Asp Met Thr Gln Leu Ala Leu Gly Leu Asp Arg Asp Ser Gly Val
 725 730 735
 Val Ser Glu Leu Phe Asp Glu Arg Asn Glu Ala Val Lys Ala Leu Leu
 740 745 750
 Ser Met Ala Ile Arg Ala Ala Lys Lys Gln Gly Lys Tyr Val Gly Ile
 755 760 765
 Cys Gly Gln Gly Pro Ser Asp His Glu Asp Phe Ala Ala Trp Leu Met
 770 775 780
 Asp Glu Gly Ile Asp Ser Leu Ser Leu Asn Pro Asp Thr Val Val Gln
 785 790 795 800
 Thr Trp Leu Ser Leu Ala Glu Leu Asn Lys
 805 810

<210> 8648

<211> 495

<212> PRT

<213> Enterobacter cloacae

<400> 8648

Tyr Leu Ser Leu Thr Ala Tyr Ile Arg Arg Asp Asp Ala Arg Leu Val
 1 5 10 15

Glu Ile Arg Phe Asn Leu Ile Lys Arg Gln Ile Thr Met Thr Ile Ser
 20 25 30
 Ser Val Leu Arg Thr Lys Asp Lys Ile Gly Tyr Gly Leu Gly Asp Met
 35 40 45
 Ala Ser Ala Leu Val Trp Gln Thr Ala Thr Leu Phe Leu Ala Tyr Phe
 50 55 60
 Tyr Thr Asp Val Phe Gly Leu Pro Ala Ala Ile Met Gly Thr Met Phe
 65 70 75 80
 Leu Val Val Arg Val Val Asp Ala Phe Val Asp Pro Cys Ile Gly Ala
 85 90 95
 Leu Val Asp Arg Thr Gln Thr Arg His Gly Arg Phe Arg Pro Trp Leu
 100 105 110
 Leu Trp Phe Ala Ile Pro Phe Gly Val Ser Cys Leu Ile Thr Phe Tyr
 115 120 125
 Val Pro Asp Ala Gly Gln Thr Ala Lys Ile Val Tyr Ala Cys Val Thr
 130 135 140
 Tyr Ala Ile Leu Ser Leu Ile Tyr Ser Ala Ile Asn Val Pro Tyr Cys
 145 150 155
 Ala Met Pro Gly Ala Leu Thr Leu Asp Pro Arg Glu Arg His Ser Leu
 165 170 175
 Gln Ser Trp Arg Phe Gly Leu Ser Phe Ile Gly Gly Leu Ile Val Thr
 180 185 190
 Val Ile Ala Leu Pro Leu Val Ser Leu Leu Gly Gln Gly Asn Val Gln
 195 200 205
 Lys Gly Tyr Phe Tyr Ala Met Ser Leu Met Gly Leu Leu Gly Ile Val
 210 215 220
 Leu Phe Phe Cys Cys Phe Phe Met Thr Arg Glu Arg Tyr Ser Pro Arg
 225 230 235 240
 Asn Asp Thr Ser Gly Ser Met Leu Thr Asp Leu Lys Leu Leu Ala Ala
 245 250 255
 Asn Ser Gln Trp Arg Ile Val Phe Leu Phe Asn Ile Leu Leu Thr
 260 265 270
 Ala Val Val Thr Arg Gly Ser Ala Thr Met Tyr Tyr Val Asn Tyr Val
 275 280 285
 Leu Leu Arg Pro Glu Leu Val Phe Ala Phe Ile Val Ser Gly Met Val
 290 295 300
 Ala Ser Leu Ser Gly Ala Leu Leu Ser Glu Arg Leu Leu Gly Lys Phe
 305 310 315 320
 Asp Arg Val Arg Ala Tyr Gln Trp Thr Ile Ile Ser Phe Val Ile Phe
 325 330 335
 Gly Ala Leu Ile Phe Phe Ile Pro Pro Ser Gln Val Trp Leu Ile Phe
 340 345 350
 Gly Leu Asn Ile Val Phe Ser Phe Ile Gln Asn Leu Thr Thr Pro Leu
 355 360 365
 Gln Trp Thr Met Phe Ser Asp Val Val Asp Tyr Glu Glu His Arg Ser
 370 375 380
 Gly Arg Arg Leu Asp Gly Leu Val Phe Ser Thr Ala Leu Phe Ala Ile
 385 390 395 400
 Lys Phe Gly Leu Ala Leu Gly Gly Ala Val Val Gly Trp Val Leu Gly
 405 410 415
 Met Val Asp Tyr Ala Pro Gly Gln Ala Asn Gln Ala Pro His Val Leu
 420 425 430
 Ala Thr Ile Asn Ala Leu Phe Thr Leu Ile Pro Cys Val Leu Phe Leu
 435 440 445
 Cys Met Val Ala Leu Leu Ala Ile Tyr Lys Leu Asn Ser Arg Leu Val
 450 455 460
 Asp Ser Ile Ala Arg Glu Leu Ala Ser Lys Arg Asp Ser Arg Asn Asp
 465 470 475 480
 Ala Gly Gln Leu Ser Pro Ala Thr Gln Ser Ala Leu Gln Glu
 485 490 495

<210> 8649

<211> 793

<212> PRT

<213> *Enterobacter cloacae*

<400> 8649

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Thr Met Thr Ala Ile Tyr Lys Asp Ala Gly Arg Pro Val His Glu Arg
1      5      10
Val Ala Asp Leu Ala Arg Met Thr Pro Glu Glu Lys Phe Ala Gln
20      25      30
Met His Ala Tyr Trp Leu Ile Leu Asp Glu His Gly Asn His Arg Glu
35      40      45
Arg Ser Asp Leu Ser Asp Glu Phe Ala Gly Val Ser Glu Gln Ala Ser
50      55      60
Leu Asn Glu Arg Leu Lys Leu Gly Val Gly Gln Ile Thr Arg Pro Leu
65      70      75      80
Gly Thr His Ile Val Asn Ala Lys Thr Gly Val Cys Ala Ala Asn Arg
85      90      95
Leu Gln Arg Met Met Met Glu Glu Thr Arg Leu Gly Ile Pro Ala Leu
100      105      110
Phe His Glu Glu Cys Leu Val Gly Leu Leu Cys Lys Asp Ala Thr Leu
115      120      125
Phe Pro Ser Ser Leu Asn Tyr Gly Ser Thr Trp Asp Pro Ala Leu Val
130      135      140
Gln Arg Ala Ala Glu Gln Ile Gly Lys Glu Ala Arg Ser Val Gly Cys
145      150      155      160
Gln Gln Gly Leu Ala Pro Val Leu Asp Val Ser Arg Asp Val Arg Trp
165      170      175
Gly Arg Thr Glu Glu Thr Phe Gly Glu Asp Pro Trp Leu Val Gly Val
180      185      190
Met Ala Thr Ala Tyr Val Lys Gly Leu Gln Gly Asp Lys Arg Asp Leu
195      200      205
Leu Ala Thr Leu Lys His Tyr Val Gly His Ser Phe Ser Glu Gly Ala
210      215      220
Arg Asn His Ala Pro Val His Leu Gly Phe Ser Glu Leu Asn Asp Thr
225      230      235      240
Phe Leu Leu Pro Phe Glu Met Ala Val Lys Leu Ala Asn Ala Gly Ser
245      250      255
Val Met Pro Ala Tyr His Asp Ile Asp Asn Gln Pro Gly His Ser Asp
260      265      270
His Phe Leu Leu Thr Thr Val Leu Arg Glu Gln Trp Gly Phe Asp Gly
275      280      285
Ile Ile Val Ala Asp Tyr Gly Gly Val Ser Leu Leu His Gln His His
290      295      300
Gly Ile Ser His Asp Pro Ala Glu Ser Ala Ala Leu Ala Phe Asn Ala
305      310      315      320
Gly Leu Asp Val Glu Leu Pro Lys Asp Asp Cys Ala Arg His Leu Ala
325      330      335
Glu Ala Val Glu Arg Gly Leu Ile Ser Met Ala Lys Val Asp Glu Ile
340      345      350
Val Ala Arg Val Leu Ser Glu Lys Phe Arg Leu Gly Leu Phe Glu Lys
355      360      365
Pro Tyr Ala Ala Glu Asp Gly Ile Asp Leu Gln Asn Glu Ala Thr Arg
370      375      380
Gln Val Ala Arg Glu Val Ala Thr Lys Ser Ile Thr Leu Leu Glu Asn
385      390      395      400
Asn Gly Ile Leu Pro Leu Gly Gly Lys Pro Arg Val Ala Val Val Gly
405      410      415
Pro Thr Ala Asp Asp Pro Leu Ala Leu Leu Ser Gly Tyr Ser Phe Pro
420      425      430
Val His Leu Ile Ile Ser Asp Met Val Glu Glu Thr Ser Gln Val Thr

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435 440 445
 Thr Pro Arg Ala Ala Leu Glu Gln Tyr Leu Gly Ala Ser Gln Val Arg
 450 455 460
 Tyr Ala Lys Gly Cys His Ile Ile Glu Lys Arg Met Ala Gly Ala Pro
 465 470 475 480
 Val Phe Pro Gly Asp Ser Gly Gly Lys Pro Met Gln Gln Ser Pro Val
 485 490 495
 Ser Gln Arg Met Asp Leu Ile Pro Asp Ala Val Ser Ala Ala Lys Glu
 500 505 510
 Ser Asp Val Val Ile Ala Cys Val Gly Asp Leu Ala Gly Leu Phe Gln
 515 520 525
 Ser Gly Thr Val Gly Glu Gly Ser Asp Thr Asp Ser Leu Asn Leu Pro
 530 535 540
 Gly Val Gln Gln Gln Leu Leu Glu Ala Leu Val Ala Thr Gly Lys Pro
 545 550 555 560
 Val Ile Val Val Met Thr Gly Gly Arg Pro Tyr Asn Leu Gln Gly Leu
 565 570 575
 Glu Glu Lys Val Ala Ala Leu Met Met Val Trp Ala Pro Gly Gln Glu
 580 585 590
 Gly Gly Trp Ala Ile Ala Asp Val Leu Thr Gly Arg Ala Glu Pro Gln
 595 600 605
 Gly Arg Leu Val Val Ser Val Pro Lys Asn Ala Gly Ala Met Pro Tyr
 610 615 620
 Tyr Tyr Asn His Lys Leu Lys Ser Gly Gly Thr Pro Phe Ala Phe His
 625 630 635 640
 Phe Gly Ala Leu Tyr Pro Phe Gly Tyr Gly Leu Gly Trp Thr Gln Phe
 645 650 655
 Arg Trp Gly Ala Ala Arg Leu Ala Glu Ser Arg Val Pro Ile Asp Gly
 660 665 670
 Glu Val Ala Leu Ser Val Asp Ile Thr Asn Thr Gly Glu Arg Ser Gly
 675 680 685
 Ser Glu Val Val Gln Val Tyr Val Arg Asp Lys Val Ala Thr Gln Val
 690 695 700
 Arg Pro Leu Gln Glu Leu Lys Ala Phe Gln Arg Val Thr Leu Ser Pro
 705 710 715 720
 Gly Glu Thr Ala Thr Leu Thr Phe Thr Leu Pro Val Glu Met Phe Asn
 725 730 735
 Phe Thr Arg Arg Asp Gly Lys Arg Ile Val Glu Pro Gly Glu Phe Glu
 740 745 750
 Leu Gln Val Gly Ala Ser Ser Ala Asp Ile Arg Ala Val Val Asn Val
 755 760 765
 Gln Val Ser Gly Lys Thr Arg Val Leu Ala Gly Asp Trp Arg Met Leu
 770 775 780
 Ser Arg Cys Asp Ile Thr Leu Ala
 785 790

<210> 8650

<211> 760

<212> PRT

<213> Enterobacter cloacae

<400> 8650

Pro Val Ser Gly Ala Phe Thr Gly Val Val Val Gly Glu Val Val Glu
 1 5 10 15
 Cys Gly Gln His Pro Asn Ala Asp Lys Leu Arg Val Thr Lys Val Asn
 20 25 30
 Val Gly Gly Asp Arg Leu Leu Asp Ile Val Cys Gly Ala Pro Asn Cys
 35 40 45
 Arg Gln Gly Leu Lys Val Ala Val Ala Thr Val Gly Ala Val Leu Pro
 50 55 60
 Gly Asp Phe Lys Ile Lys Ala Ala Lys Leu Arg Gly Glu Pro Ser Glu

65					70					75					80
Gly	Met	Leu	Cys	Ser	Phe	Ser	Glu	Leu	Gly	Ile	Ser	Asp	Asp	His	Ser
				85					90					95	
Gly	Ile	Ile	Glu	Leu	Pro	Gln	Asp	Ala	Pro	Val	Gly	Thr	Asp	Ile	Arg
			100					105					110		
Glu	Tyr	Leu	Lys	Leu	Asp	Asp	Asn	Thr	Ile	Glu	Ile	Ser	Val	Thr	Pro
			115					120				125			
Asn	Arg	Ala	Asp	Cys	Leu	Gly	Ile	Ile	Gly	Val	Ala	Arg	Asp	Val	Ala
			130				135					140			
Val	Leu	Asn	Gln	Thr	Glu	Leu	Asn	Val	Pro	Glu	Ile	Ala	Pro	Val	Glu
145					150					155				160	
Ala	Thr	Ile	Ser	Asp	Val	Leu	Pro	Ile	Gln	Val	Asp	Ala	Pro	Glu	Ala
				165						170				175	
Cys	Pro	Arg	Tyr	Leu	Gly	Arg	Val	Val	Lys	Gly	Ile	Asn	Val	Lys	Ala
			180						185				190		
Pro	Thr	Pro	Leu	Trp	Met	Lys	Glu	Lys	Leu	Arg	Arg	Cys	Gly	Ile	Arg
			195				200					205			
Ser	Ile	Asp	Ala	Val	Val	Asp	Val	Thr	Asn	Tyr	Val	Leu	Leu	Glu	Leu
			210				215				220				
Gly	Gln	Pro	Met	His	Ala	Phe	Asp	Lys	Asp	Arg	Ile	Glu	Gly	Gly	Ile
225					230					235				240	
Val	Val	Arg	Met	Ala	Lys	Glu	Gly	Glu	Thr	Leu	Val	Leu	Leu	Asp	Gly
				245						250				255	
Ser	Glu	Ala	Lys	Leu	Asn	Ala	Asp	Thr	Leu	Val	Ile	Ala	Asp	His	Asn
			260				265					270			
Lys	Ala	Leu	Ala	Met	Gly	Gly	Ile	Phe	Gly	Gly	Glu	His	Ser	Gly	Val
			275				280					285			
Asn	Asp	Glu	Thr	Gln	Asn	Val	Leu	Leu	Glu	Cys	Ala	Phe	Phe	Ser	Pro
			290				295				300				
Leu	Ser	Ile	Thr	Gly	Arg	Ala	Arg	Arg	His	Gly	Leu	His	Thr	Asp	Ala
305					310					315				320	
Ser	His	Arg	Tyr	Glu	Arg	Gly	Val	Asp	Pro	Ala	Leu	Gln	Tyr	Lys	Ala
				325					330					335	
Met	Glu	Arg	Ala	Thr	Arg	Leu	Leu	Ile	Asp	Ile	Cys	Gly	Gly	Glu	Ala
			340						345				350		
Gly	Pro	Val	Ile	Asp	Val	Thr	Asn	Glu	Ala	Thr	Leu	Pro	Lys	Arg	Ala
			355				360					365			
Thr	Ile	Thr	Leu	Arg	Arg	Ser	Lys	Leu	Asp	Arg	Leu	Ile	Gly	His	His
			370				375				380				
Val	Ala	Asp	Ala	Gln	Val	Thr	Asp	Ile	Leu	Thr	Arg	Leu	Gly	Cys	Glu
385					390					395				400	
Val	Thr	Glu	Gly	Gln	Asp	Glu	Trp	Lys	Ala	Val	Ala	Pro	Ser	Trp	Arg
				405					410					415	
Phe	Asp	Met	Glu	Ile	Glu	Glu	Asp	Leu	Val	Glu	Glu	Val	Ala	Arg	Val
			420				425					430			
Tyr	Gly	Tyr	Asn	Asn	Ile	Pro	Asp	Glu	Pro	Val	Gln	Ala	Gly	Leu	Val
			435				440					445			
Met	Gly	Ser	His	Arg	Glu	Ala	Asp	Leu	Ser	Leu	Lys	Arg	Val	Lys	Thr
			450				455				460				
Met	Leu	Asn	Asp	Lys	Gly	Tyr	Gln	Glu	Val	Ile	Thr	Tyr	Ser	Phe	Val
465					470					475				480	
Asp	Pro	Lys	Leu	Gln	Gln	Leu	Ile	His	Pro	Gly	Gln	Glu	Ala	Leu	Ile
				485					490					495	
Leu	Pro	Ser	Pro	Ile	Ser	Ser	Glu	Met	Ser	Ala	Met	Arg	Leu	Ser	Leu
			500					505				510			
Trp	Thr	Gly	Leu	Leu	Gly	Thr	Ile	Val	Tyr	Asn	Gln	Asn	Arg	Gln	Gln
			515				520					525			
Asn	Arg	Val	Arg	Ile	Phe	Glu	Ser	Gly	Leu	Arg	Phe	Val	Pro	Asp	Thr
			530				535				540				
Gln	Ala	Asn	Leu	Gly	Ile	Arg	Gln	Asp	Leu	Met	Leu	Ala	Gly	Ala	Ile
545					550					555				560	

Ser Gly Asn Arg Tyr Glu Glu His Trp Asp Leu Ala Lys Gly Thr Val
 565 570 575
 Asp Phe Tyr Asp Met Lys Gly Asp Leu Glu Ala Ile Leu Asp Leu Thr
 580 585 590
 Gly Lys Leu Ser Glu Ile Glu Phe Arg Ala Glu Ala Ile Pro Ala Leu
 595 600 605
 His Pro Gly Gln Ser Ala Ala Ile Tyr Leu Asp Gly Lys Arg Val Gly
 610 615 620
 Phe Ile Gly Val Val His Pro Glu Leu Glu Arg Lys Leu Asp Leu Asn
 625 630 635 640
 Gly Arg Thr Ile Val Phe Glu Leu Glu Trp Asn Pro Val Ala Asp Arg
 645 650 655
 Val Ile Pro Gln Ala Gln Asp Val Ser Arg Phe Pro Ala Asn Arg Arg
 660 665 670
 Asp Ile Ala Val Val Val Ala Glu Asn Val Pro Ala Ala Asp Ile Leu
 675 680 685
 Ala Glu Cys Lys Lys Val Gly Val Asn Gln Val Val Gly Val Asn Leu
 690 695 700
 Phe Asp Val Tyr Arg Gly Lys Gly Val Ala Glu Gly Phe Lys Ser Leu
 705 710 715 720
 Ala Ile Ser Leu Ile Leu Gln Asp Thr Ser Arg Thr Leu Glu Glu Glu
 725 730 735
 Glu Ile Ala Ala Thr Val Ala Lys Cys Val Glu Ala Leu Lys Glu Arg
 740 745 750
 Phe Gln Ala Ser Leu Arg Asp
 755 760

<210> 8651

<211> 243

<212> PRT

<213> *Enterobacter cloacae*

<400> 8651

Cys Arg Thr Ser Ala Met Ile Ile Thr Leu Asp Asn Ala Tyr Gln Ser
 1 5 10 15
 Glu Leu Leu Leu Leu Pro Ala Arg Asp Ser Ala Gly Leu Leu Lys Gly
 20 25 30
 Leu Glu Ile Leu Val Asn Phe Thr Gly Val Gly Ala Asp Val Arg Ile
 35 40 45
 Pro Thr Glu Leu Val Ile Pro His Leu Ser Gln Glu Asp Glu Leu Ala
 50 55 60
 Leu Phe Gln Glu Lys Leu Gln Leu Leu Asp Thr Cys Lys Leu Phe Phe
 65 70 75 80
 Ile Gln His Gln Leu Ile Ala Trp Ile Asn Ile Thr Pro Ala Ile Val
 85 90 95
 Glu Phe Leu Leu Thr Asn Glu Asn Ala Val Ser Ile Leu Glu Arg Tyr
 100 105 110
 Pro Phe Leu Glu Phe Thr Val Asn Glu Asn Tyr Pro Gly Leu Asn Asn
 115 120 125
 Gly Lys Asp Asp Pro Cys Leu Ala Arg Met Ala Ile His Phe Pro Leu
 130 135 140
 Val Leu Ala Asn Phe Gly Ala Gly Ala Ala Ser Leu Lys Pro Val Tyr
 145 150 155 160
 Asp Gly Leu Phe Lys Arg Val Val Leu Asp Lys Asn Phe Ile Gln Gln
 165 170 175
 Arg Val Ser Ala Leu Ser Phe Glu Pro Phe Met Arg Ala Ile Leu Trp
 180 185 190
 Gln Ile Ala Pro His Cys Gln Ser Val Met Val Ser Gly Ile Asp Asp
 195 200 205
 His Gly Ile Leu Gln Arg Val Leu Thr Phe Asn Phe Gly Ala Met Gln
 210 215 220

Gly Ser Leu Trp Pro Ala Val Pro Ala Glu Arg Val Thr Thr Leu Val
 225 230 235 240
 Gln Gln

<210> 8652

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 8652

Arg Arg Pro Pro Ser Ile Ala Gly Phe Thr Gly Asp Tyr Arg Met Ile
 1 5 10 15
 Trp Lys Arg Ala Val Thr Leu Glu Ala Leu Asn Ala Met Gly Ala Glu
 20 25 30
 Asn Met Val Gly Leu Leu Asp Ile Gln Phe Thr Arg Ile Gly Asp Asn
 35 40 45
 Glu Leu Glu Ala Thr Met Pro Val Asp Cys Arg Thr His Gln Pro Phe
 50 55 60
 Gly Leu Leu His Gly Gly Ala Ser Val Val Leu Ala Glu Thr Leu Gly
 65 70 75 80
 Ser Val Ala Gly Tyr Leu Cys Thr Glu Gly Glu Gln Lys Val Val Gly
 85 90 95
 Leu Glu Val Asn Ala Asn His Ile Arg Ser Val Arg Ser Gly Arg Val
 100 105 110
 Arg Gly Val Cys Arg Ala Leu His Ala Gly Ser Arg His Gln Val Trp
 115 120 125
 Gln Ile Asp Ile Leu Asp Glu Gln Asp Arg Leu Cys Cys Ser Ser Arg
 130 135 140
 Leu Thr Thr Ala Val Val
 145 150

<210> 8653

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 8653

Gly Ile Glu Pro Met Ala Leu Thr Lys Ala Glu Met Ser Glu Tyr Leu
 1 5 10 15
 Phe Asp Lys Leu Gly Leu Ser Lys Arg Asp Ala Lys Glu Leu Val Glu
 20 25 30
 Leu Phe Phe Glu Glu Ile Arg Arg Ala Leu Glu Asn Gly Glu Gln Val
 35 40 45
 Lys Leu Ser Gly Phe Gly Asn Phe Asp Leu Arg Asp Lys Asn Gln Arg
 50 55 60
 Pro Gly Arg Asn Pro Lys Thr Gly Glu Asp Ile Pro Ile Thr Ala Arg
 65 70 75 80
 Arg Val Val Thr Phe Arg Pro Gly Gln Lys Leu Lys Ser Arg Val Glu
 85 90 95
 Asn Ala Thr Pro Lys Ala Glu
 100

<210> 8654

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 8654

His Asp Ala Gly Arg Ser Tyr Arg Asp Gly Ile Asn Gln Ala Gly Ala
 1 5 10 15

Gly Glu Ile Met Thr Leu Leu Met Gln Leu Thr Asp Val Ala Gly Lys
 20 25 30
 Gly Arg Leu Glu Pro Val Thr Ala Ala Val Asn Ala Gly Glu Ile Leu
 35 40 45
 His Leu Val Gly Pro Asn Gly Ala Gly Lys Ser Thr Leu Leu Ala Arg
 50 55 60
 Met Ala Gly Leu Thr Thr Gly Glu Gly Glu Ile Thr Phe Leu Gly Gln
 65 70 75 80
 Ser Leu Val Asp Trp Leu Pro Ala Thr Leu Ala Ser Arg Arg Gly Tyr
 85 90 95
 Leu Val Gln Gln Gln Val Pro Pro Phe Ala Met Pro Val Trp His Tyr
 100 105 110
 Leu Thr Leu His Leu Ser Asp Lys Asn Gln Val Gly Leu Leu Asn Glu
 115 120 125
 Val Ala Ala Ala Leu Gly Leu Asp Asp Lys Leu Thr Arg Gln Ala Asn
 130 135 140
 Gln Leu Ser Gly Gly Glu Trp Gln Arg Val Arg Leu Ala Ala Val Ile
 145 150 155 160
 Leu Gln Ile His Pro Ala Gly Asn Pro His Gly Arg Arg Met Leu Leu Leu
 165 170 175
 Asp Glu Pro Met Ser Gly Leu Asp Val Ala Gln Gln Ala Ala Leu Asp
 180 185 190
 Thr Leu Leu Ser Ala Leu Cys Arg Lys Gly Ile Ala Ile Val Met Ser
 195 200 205
 Ser His Asp Leu Asn His Thr Leu Arg His Ala His Arg Val Trp Leu
 210 215 220
 Leu Ala Arg Gly Lys Leu Ile Ala Ser Gly Thr Arg Asp Asn Val Leu
 225 230 235 240
 Thr Ala Ala Asn Leu Ala Ser Ala Tyr His Met Ser Phe Arg Arg Leu
 245 250 255
 Asp Ile Glu Gly His Lys Met Leu Ile Ser Thr Ala Gln Glu
 260 265 270

<210> 8655

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 8655

Ile Thr Glu Arg Thr Lys Lys Ala Glu Asp Ser Ser Glu Met Arg Phe
 1 5 10 15
 Trp Phe Leu Leu Val Ala Ala Leu Phe Leu Ala Gly Cys Ser Ser His
 20 25 30
 His Ala Pro Pro Pro Asn Pro Arg Leu Ser Asp Ser Ile Thr Val Ile
 35 40 45
 Ala Ser Leu Asn Asp Gln Leu Ser Asn Trp Arg Gly Thr Pro Tyr Arg
 50 55 60
 Tyr Gly Gly Met Ser Arg Gly Gly Val Asp Cys Ser Gly Phe Val Leu
 65 70 75 80
 Met Thr Phe Arg Asp Lys Phe Asp Leu Gln Leu Pro Arg Glu Thr Arg
 85 90 95
 Met Gln Ala Lys Ile Gly Thr Glu Ile Asp Lys Asp Glu Leu Leu Pro
 100 105 110
 Gly Asp Leu Val Phe Phe Lys Thr Gly Ser Gly Glu Ser Gly Leu His
 115 120 125
 Val Gly Ile Tyr Asp Thr Asp Asn Gln Phe Ile His Ala Ser Thr Ser
 130 135 140
 Arg Gly Val Met Arg Ser Ser Leu Asp Asn Val Tyr Trp Arg Lys Asn
 145 150 155 160
 Phe Trp Gln Ala Arg Arg Ile
 165

<210> 8656
 <211> 528
 <212> PRT
 <213> Enterobacter cloacae

<400> 8656

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His Ser Ile Leu Val Gln Cys Arg Glu Ala Cys Gly Leu Pro Ser Arg
1      5      10      15
Gln Ser Gly Ser Arg Leu Ser Tyr Ser Asn Asn Pro Phe Leu Arg Pro
      20      25      30
Cys Leu Arg Pro Gly Lys Pro Ser Thr Leu Lys Ala Gly Gly Leu Met
      35      40      45
Thr Leu Ser Phe Thr Ala His Trp His Asp Glu Leu Pro Gly Phe Tyr
      50      55      60
Thr Ala Leu Lys Pro Thr Pro Leu Gln Asn Ala Arg Leu Ile Trp His
      65      70      75      80
Asn Asp Ala Leu Ala Asp Ser Leu Gly Ile Pro Ser Thr Leu Phe Gln
      85      90      95
Pro Glu Lys Gly Ala Gly Val Trp Gly Gly Glu Thr Leu Leu Pro Gly
      100      105      110
Met Lys Pro Leu Ala Gln Val Tyr Ser Gly His Gln Phe Gly Val Trp
      115      120      125
Ala Gly Gln Leu Gly Asp Gly Arg Gly Ile Leu Leu Gly Glu Gln Val
      130      135      140
Leu Pro Asn Gly Glu Thr Leu Asp Trp His Leu Lys Gly Ala Gly Leu
      145      150      155      160
Thr Pro Tyr Ser Arg Met Gly Asp Gly Arg Ala Val Leu Arg Ser Thr
      165      170      175
Ile Arg Glu Gly Leu Ala Ser Glu Ala Met His Ala Leu Gly Ile Pro
      180      185      190
Thr Ser Arg Ala Leu Ser Ile Val Thr Ser Asp Thr Pro Val Ala Arg
      195      200      205
Glu Thr Met Glu Gln Gly Ala Met Leu Val Arg Val Ala Glu Ser His
      210      215      220
Leu Arg Phe Gly His Phe Glu His Phe Tyr Tyr Arg Arg Glu Pro Asp
      225      230      235      240
Lys Val Arg Gln Leu Ala Asp Tyr Ala Leu Arg Arg His Trp Pro His
      245      250      255
Leu Gln Asn Glu Pro Asp Arg Tyr Val Leu Trp Phe Arg Asp Ile Ala
      260      265      270
Ala Arg Thr Ala Ala Met Ile Ala Arg Trp Gln Ala Val Gly Phe Ala
      275      280      285
His Gly Val Met Asn Thr Asp Asn Met Ser Leu Leu Gly Leu Thr Phe
      290      295      300
Asp Tyr Gly Pro Tyr Gly Phe Leu Asp Asp Tyr Gln Pro Gly Tyr Ile
      305      310      315      320
Cys Asn His Ser Asp Tyr Gln Gly Arg Tyr Arg Phe Asp Asn Gln Pro
      325      330      335
Ala Val Gly Leu Trp Asn Leu Gln Arg Leu Ala Gln Ser Leu Ser Pro
      340      345      350
Phe Ile Asp Val Asp Ala Leu Asn Asp Ala Leu Asp Ser Tyr Gln Glu
      355      360      365
Val Leu Leu Arg Glu Tyr Gly Val Leu Met Arg Thr Arg Leu Gly Leu
      370      375      380
Met Thr Gln Gln Lys Gly Asp Asn Ala Leu Leu Asn Gly Leu Phe Ala
      385      390      395      400
Ile Met Ala Arg Glu Gly Ser Asp Tyr Thr Arg Thr Phe Arg Met Leu
      405      410      415
Ser Gln Thr Ala Gln Gln Ser Ala Ala Ser Pro Leu Arg Asp Glu Phe
      420      425      430

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Val Asp Arg Gln Ala Phe Asp Asp Trp Phe Ala Ala Tyr Arg Ala Arg
 435 440 445
 Leu Gln Gln Glu Gln Ile Asp Asp Asp Thr Arg Gln Ala Arg Met Lys
 450 455 460
 Ala Val Asn Pro Ala Met Val Leu Arg Asn Trp Leu Ala Gln Arg Ala
 465 470 475 480
 Ile Glu Gln Ala Glu Gln Gly Asp Tyr Thr Glu Leu His Arg Leu His
 485 490 495
 Ile Ala Leu Arg Thr Pro Phe Ala Asp Arg Glu Asp Asp Tyr Val Ser
 500 505 510
 Arg Pro Pro Asp Trp Gly Lys Arg Leu Glu Val Ser Cys Ser Ser
 515 520 525

<210> 8657

<211> 1043

<212> PRT

<213> Enterobacter cloacae

<400> 8657

Glu Lys Asn Val Ile Lys Leu Ser Arg His Asn Ala Asn Asp Phe Thr
 1 5 10 15
 Leu Phe Ser Leu Gly Ser Thr Ala Met Ile Pro Gln Ile Ser Gln Ala
 20 25 30
 Pro Gly Val Val Gln Leu Val Leu Asn Phe Leu Gln Ala Leu Glu Gln
 35 40 45
 Gln Gly Phe Thr Gly Asp Thr Ala Thr Asp Tyr Ala Asp Arg Leu Thr
 50 55 60
 Met Ala Thr Asp Asn Ser Ile Tyr Gln Leu Leu Pro Asp Ala Val Val
 65 70 75 80
 Phe Pro Arg Ser Thr Ala Asp Val Ala Leu Ile Ala Arg Leu Ala Ser
 85 90 95
 Gln Glu Arg Phe Ser Ser Leu Val Phe Thr Pro Arg Gly Gly Gly Thr
 100 105 110
 Gly Thr Asn Gly Gln Ala Leu Asn Gln Gly Ile Ile Ile Asp Met Ser
 115 120 125
 Arg Tyr Met Asn Arg Ile Ile Glu Ile Asn Pro Glu Glu Gly Trp Val
 130 135 140
 Arg Val Glu Ala Gly Val Ile Lys Asp Gln Leu Asn Gln Phe Leu Lys
 145 150 155 160
 Pro Tyr Gly Tyr Phe Phe Ala Pro Glu Leu Ser Thr Ser Asn Arg Ala
 165 170 175
 Thr Ile Gly Gly Met Ile Asn Thr Asp Ala Ser Gly Gln Gly Ser Leu
 180 185 190
 Val Tyr Gly Lys Thr Ser Asp His Val Met Gly Val Arg Ala Val Leu
 195 200 205
 Leu Gly Gly Asp Ile Leu Asp Thr Gln Pro Met Pro Ile Glu Leu Ala
 210 215 220
 Glu Thr Leu Ala Ala Glu Ser Thr Thr Ser Gly Arg Ile Tyr Arg Thr
 225 230 235 240
 Val Leu Glu Arg Cys Arg Glu Asn Arg Glu Leu Ile Leu Asp Lys Phe
 245 250 255
 Pro Lys Leu Asn Arg Phe Leu Thr Gly Tyr Asp Leu Arg His Val Phe
 260 265 270
 Asn Asp Asp Met Ser Gln Phe Asp Leu Thr Arg Val Leu Thr Gly Ser
 275 280 285
 Glu Gly Thr Leu Ala Phe Ile Thr Glu Ala Arg Leu Asp Ile Thr Arg
 290 295 300
 Leu Pro Lys Val Arg Arg Leu Val Asn Val Lys Tyr Asn Ser Phe Asp
 305 310 315 320
 Ser Ala Leu Arg Asn Ala Pro Phe Met Val Glu Ala Arg Ala Leu Ser
 325 330 335

Val Glu Thr Val Asp Ser Lys Val Leu Asn Leu Ala Arg Glu Asp Ile
 340 345 350
 Val Trp His Ser Val Ser Glu Leu Ile Thr Asp Val Pro Asp Lys Glu
 355 360 365
 Met Leu Gly Leu Asn Ile Val Glu Phe Ala Gly Asp Asp Ala Glu Leu
 370 375 380
 Ile Glu Ser Gln Val Asn Thr Leu Cys Gln Arg Leu Asp Glu Leu Ile
 385 390 395 400
 Ala Gln Gly Glu Gly Val Ile Gly Trp Gln Leu Cys Asn Asp Leu
 405 410 415
 Ser Gly Ile Glu Arg Ile Tyr Ala Met Arg Lys Lys Ala Val Gly Leu
 420 425 430
 Leu Gly Asn Ala Lys Gly Ala Ala Lys Pro Ile Pro Phe Ala Glu Asp
 435 440 445
 Thr Cys Val Pro Pro Glu His Leu Ala Asp Tyr Ile Val Glu Phe Arg
 450 455 460
 Ala Leu Leu Asp Ser His Gly Leu Ser Tyr Gly Met Phe Gly His Val
 465 470 475 480
 Asp Ala Gly Val Leu His Val Arg Pro Ala Leu Asp Met Cys Asp Pro
 485 490 495
 Gln Gln Glu Ile Leu Met Lys Ala Ile Ser Asp Glu Val Val Ala Leu
 500 505 510
 Thr Ala Lys Tyr Gly Gly Leu Leu Trp Gly Glu His Gly Lys Gly Phe
 515 520 525
 Arg Ala Glu Tyr Ser Pro Ala Phe Phe Gly Glu Gln Leu Tyr Ala Glu
 530 535 540
 Leu Arg Lys Val Lys Ala Ala Phe Asp Pro Asp Asn Arg Leu Asn Pro
 545 550 555 560
 Gly Lys Ile Cys Pro Pro Glu Gly Val Asp Ala Pro Met Leu Gln Val
 565 570 575
 Asp Ala Val Lys Arg Gly Thr Tyr Asp Arg Gln Ile Pro Ile Ala Ile
 580 585 590
 Arg Ala Ser Trp Arg Gly Ala Met Glu Cys Asn Gly Asn Gly Leu Cys
 595 600 605
 Phe Asn Phe Asp Val Lys Ser Pro Met Cys Pro Ser Met Lys Ile Thr
 610 615 620
 Ser Asn Arg Ile His Ser Pro Lys Gly Arg Ala Thr Leu Val Arg Glu
 625 630 635 640
 Trp Leu Arg Leu Leu Ala Asp Arg Gly Val Asp Pro Leu Lys Leu Glu
 645 650 655
 Gln Glu Leu Pro Glu Lys Arg Ala Ser Leu Arg Gly Leu Ile Glu Arg
 660 665 670
 Thr Arg Asn Ser Trp His Ala Asn Lys Gly Glu Tyr Asp Phe Ser His
 675 680 685
 Glu Val Lys Glu Ala Met Ser Gly Cys Leu Ala Cys Lys Ala Cys Ser
 690 695 700
 Thr Gln Cys Pro Ile Lys Ile Asp Val Pro Glu Phe Arg Ser Arg Phe
 705 710 715 720
 Leu Gln Leu Tyr His Thr Arg Tyr Leu Arg Pro Met Arg Asp His Leu
 725 730 735
 Val Ala Thr Val Glu Ser Tyr Ala Pro Leu Met Ala Arg Ala Pro Lys
 740 745 750
 Thr Phe Asn Phe Phe Ile Asn Gln Pro Leu Val Arg Lys Leu Ser Glu
 755 760 765
 Lys His Ile Gly Met Val Asp Leu Pro Leu Leu Ser Val Pro Ser Leu
 770 775 780
 Gln Arg Arg Leu Val Gly His Arg Ser Ala Asn Met Thr Leu Glu Gln
 785 790 795 800
 Leu Glu Ala Leu Ser Pro Glu Gln Lys Ala Lys Val Val Leu Val Val
 805 810 815
 Gln Asp Pro Phe Thr Ser Tyr Tyr Asp Ala Gln Val Val Ala Asp Phe

820 825 830
 Val Arg Leu Ala Glu Lys Ile Gly Tyr Gln Pro Val Val Leu Pro Phe
 835 840 845
 Ser Pro Asn Gly Lys Ala Gln His Ile Lys Gly Phe Leu Thr Arg Phe
 850 855 860
 Ala Lys Thr Ala Gln Lys Thr Ser Asp Phe Leu Asn Arg Val Ala Gln
 865 870 875 880
 Leu Gly Met Pro Met Val Gly Val Asp Pro Ala Leu Val Leu Cys Tyr
 885 890 895
 Arg Asp Glu Tyr Lys Gln Thr Leu Gly Asp Lys Arg Gly Asp Phe Gln
 900 905 910
 Val Leu Leu Val His Glu Trp Leu Pro Ala Val Leu Thr Gln Thr Pro
 915 920 925
 Pro Gln Glu Val Ser Gly Glu Ser Trp Tyr Leu Phe Gly His Cys Thr
 930 935 940
 Glu Val Thr Ala Leu Pro Thr Ala Pro Ala Gln Trp Ala Ser Ile Phe
 945 950 955 960
 Ser Arg Phe Gly Ala Lys Leu Glu Ser Val Asn Val Gly Cys Cys Gly
 965 970 975
 Met Ala Gly Thr Tyr Gly His Glu Val Lys Asn His Ala Asn Ser Leu
 980 985 990
 Gly Ile Tyr Glu Leu Ser Trp His Gln Ala Met Gln Arg Leu Pro Arg
 995 1000 1005
 Asn Arg Cys Leu Ala Thr Gly Tyr Ser Cys Arg Ser Gln Val Lys Arg
 1010 1015 1020
 Val Glu Gly Asn Gly Val Arg His Pro Leu Gln Ala Leu Leu Glu Ile
 1025 1030 1035 1040
 Ile Gly

<210> 8658

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 8658

Tyr Thr Gly His Val Leu Asn Ile Ser Glu Asp Ile Met Asp Thr Glu
 1 5 10 15
 Ile Thr Pro Ile Gln Leu Ala Ile Glu Tyr Leu Arg Arg Asp Lys Ser
 20 25 30
 Asn Leu Ser Pro Ala Gln Tyr Leu Lys Lys Leu Lys Gln Leu Glu Leu
 35 40 45
 Glu Phe Thr Asp Leu Leu Ala Leu Ser Ser Asn Glu Leu Lys Glu Glu
 50 55 60
 Ile Tyr Phe Ala Trp Arg Leu Gly Val His Val His
 65 70 75

<210> 8659

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 8659

Ser Asn Thr Gly Tyr Lys Ile Met Asn Lys Lys Leu Met Met Ala Met
 1 5 10 15
 Leu Ala Ala Gly Ser Val Leu Thr Met Thr Asn Ala Leu Ala Ala Ala
 20 25 30
 Gly Thr Val Asn Phe Asn Gly Asn Ile Leu Asp Ser Ala Cys Asp Val
 35 40 45
 Asp Val Ala Ser Gln Asn Gln Val Val Val Leu Gly Asp Tyr Tyr Lys
 50 55 60

Thr Glu Phe Pro Thr Thr Gly Ala Arg Thr Ala Ala Thr Gln Phe Asn
 65 70 75 80
 Ile Ile Leu Lys Asn Cys Pro Val Thr Val Thr Asn Ala Lys Val Arg
 85 90 95
 Phe Asp Gly Thr Pro Asp Leu Thr Asn Ala Ser Leu Leu Ala Ile Asp
 100 105 110
 Thr Ser Val Ala Gly Ala Ala Thr Gly Val Ala Ile Asn Leu Met Thr
 115 120 125
 Ala Asp Lys Ala Asp Leu Pro Leu His Gly Ser Asn Ser Tyr Thr Tyr
 130 135 140
 Ala Leu Ser Ser Thr Ala Asp Asn Thr Leu Ser Phe Tyr Ala Gln Tyr
 145 150 155 160
 Ile Ser Thr Ala Ala Ser Val Thr Ala Gly Pro Ala Asn Ser Val Ala
 165 170 175
 Asn Phe Ser Val Val Tyr
 180

<210> 8660

<211> 628

<212> PRT

<213> Enterobacter cloacae

<400> 8660

Ser Phe Ile Gly Met Gly Ile Leu Gln Gly Met His Gln Asn Ser Ala
 1 5 10 15
 Ile Pro Ala Ile Arg Ser Arg Gln Glu Pro Gly Asn Ser Met Leu Lys
 20 25 30
 Arg Cys Leu Ser Pro Leu Thr Leu Val Asn Gln Leu Ala Leu Ile Val
 35 40 45
 Leu Leu Ser Thr Ala Ile Gly Val Thr Gly Met Ala Ile Ser Gly Trp
 50 55 60
 Leu Val Gln Gly Val Gln Gly Asn Ala His Ala Ile Asn Glu Ala Gly
 65 70 75 80
 Ser Leu Arg Met Gln Ser Tyr Arg Leu Leu Ala Ser Val Pro Leu Thr
 85 90 95
 Gln Ala Asp Gln Pro Leu Ile Asp Glu Met Glu Arg Thr Ala Phe Ser
 100 105 110
 Pro Glu Leu Glu Arg Ala Ala Ile Arg Asp Gly Gln Gln Ser Gln Leu
 115 120 125
 Lys Ala Leu Gln Gly Tyr Trp His Thr Gln Leu Glu Pro Gly Leu Lys
 130 135 140
 Arg Ala Glu Asp Arg Glu Thr Val Ala Gln Asp Val Ala Gly Phe Val
 145 150 155 160
 Ser Arg Ile Asp His Leu Val Ser Ser Phe Asp Arg Thr Thr Glu Leu
 165 170 175
 Arg Ile Asp Arg Val Val Met Val His Arg Ala Met Ala Leu Phe Met
 180 185 190
 Gly Leu Leu Leu Ile Phe Thr Val Ile Trp Leu Arg Ala Arg Leu Leu
 195 200 205
 Asn Pro Trp Lys Gln Leu Leu Ala Met Ala Arg Ala Val Thr Gln Arg
 210 215 220
 Asp Phe Thr Gln Arg Thr His Ile Ser Gly Arg Asn Glu Met Ala Met
 225 230 235 240
 Leu Gly Glu Ala Leu Asn Thr Met Ser Ala Glu Leu Ser Glu Ser Tyr
 245 250 255
 Ala Val Leu Glu Gln Arg Val Gln Glu Lys Thr Ala Gly Leu Glu Gln
 260 265 270
 Lys Asn Glu Ile Leu Ser Phe Leu Trp Gln Ala Asn Arg Arg Leu His
 275 280 285
 Met Gln Val Pro Leu Cys Glu Arg Leu Ser Pro Val Leu Asn Gly Leu
 290 295 300

Gln Asn Leu Thr Leu Leu Arg Asp Leu Glu Leu Arg Val Tyr Asp Val
 305 310 315 320
 Glu Asp Glu Glu Asn His Gln Glu Phe Thr Cys Gln Ser Asp Ile Ser
 325 330 335
 Cys Asp Asp Lys Gly Cys His Leu Cys Pro Arg Gly Leu Pro Pro Leu
 340 345 350
 Thr Thr Ser Gly Thr Thr Leu Lys Trp Arg Leu Met Asp Ser His Thr
 355 360 365
 Gln Tyr Gly Ile Leu Leu Ala Thr Leu Pro Ala Gly Arg His Leu Ser
 370 375 380
 His Asp Gln Gln Gln Leu Val Asp Thr Leu Val Glu Gln Leu Thr Ala
 385 390 395 400
 Thr Leu Ala Leu Asp Arg His Gln Glu Lys Gln Gln Gln Leu Ile Val
 405 410 415
 Met Glu Glu Arg Ala Thr Ile Ala Arg Glu Leu His Asp Ser Ile Ala
 420 425 430
 Gln Ser Leu Ser Cys Met Lys Met Gln Val Ser Cys Leu Gln Met Gln
 435 440 445
 Asp Glu Gly Met Pro Glu Ser Ser Lys Gln Leu Leu Ser Gln Ile Arg
 450 455 460
 Asn Glu Leu Asn Thr Ser Trp Val Gln Leu Arg Glu Leu Leu Thr Thr
 465 470 475 480
 Phe Arg Leu Gln Leu Thr Glu Pro Gly Leu Arg Pro Ala Leu Glu Ser
 485 490 495
 Ser Cys Gln Glu Phe Ser Ala Arg Leu Gly Phe Pro Val Lys Leu Asp
 500 505 510
 Tyr Gln Leu Pro Pro Arg Phe Val Pro Ser His Gln Ala Ile His Leu
 515 520 525
 Leu Gln Ile Ala Arg Glu Ala Leu Ser Asn Val Leu Lys His Ala Glu
 530 535 540
 Ala Thr Ala Val Thr Val Thr Val Ser Cys Gln Asp Asn Gln Val Lys
 545 550 555 560
 Leu Arg Val Gln Asp Asn Gly Arg Gly Val Pro Glu Asn Ala Glu Arg
 565 570 575
 Thr Asn His Tyr Gly Leu Ile Ile Met Arg Asp Arg Ala Gln Ser Leu
 580 585 590
 Arg Gly Asp Cys Gln Val Arg Arg Gly Glu Ser Gly Gly Thr Glu Val
 595 600 605
 Val Val Thr Phe Ile Pro Glu Lys Pro Leu Ile Thr Ala Gln Gly Glu
 610 615 620
 Asn His Asp
 625

<210> 8661

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 8661

Arg Cys Asn Ala Ala Arg Phe Ser Ser Thr Arg Ala Leu Leu Ala Leu
 1 5 10 15
 His Ser Gly Ala Tyr Asn Leu Pro Cys Glu Gln Ser Gln Thr Phe Asp
 20 25 30
 Ala Pro Arg Ser His Cys Ser Ile Cys Thr Ser Arg Leu Met Pro Phe
 35 40 45
 Thr Ser Ala Pro Ser Cys Ala Ser Leu Pro Ser Cys Ser Ser Arg Asn
 50 55 60
 Ile Leu Ala Arg Trp Asn His Ser Val Ala Pro Gly Glu Leu Pro Ala
 65 70 75 80
 Thr Ile Val Ile Val Ser Leu Pro Asp Thr Tyr Ser Ser Val Arg Glu
 85 90 95

Ala Ile Phe Val Pro Phe Gln Arg Thr Gly Val Asn Met Gln Lys Ile
 100 105 110
 Val Ile Val Ala Asn Gly Ala Ala Tyr Gly Ser Glu Ser Leu Phe Asn
 115 120 125
 Ser Leu Arg Leu Ala Ile Ala Leu Arg Asp Lys Glu Ser Glu Leu Glu
 130 135 140
 Leu Arg Leu Phe Leu Met Ser Asp Ala Val Thr Ala Gly Leu Lys Gly
 145 150 155 160
 Gln Lys Pro Ala Glu Gly Tyr Asn Ile Gln Gln Met Leu Glu Ile Leu
 165 170 175
 Thr Ala Gln Asn Val Pro Val Lys Leu Cys Lys Thr Cys Thr Asp Gly
 180 185 190
 Arg Gly Ile Thr Gly Leu Pro Leu Ile Asp Gly Val Glu Ile Gly Thr
 195 200 205
 Leu Val Glu Leu Ala Glu Trp Thr Leu Ser Ala Asp Lys Val Leu Thr
 210 215 220
 Phe
 225

<210> 8662

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 8662

Leu Gln Ala Pro Ala Leu Leu Glu Lys His Met Thr Ala Thr His Glu
 1 5 10 15
 Ala Val Lys Thr Arg His Lys Glu Thr Ser Leu Ile Phe Pro Val Leu
 20 25 30
 Ala Leu Ala Val Leu Leu Phe Trp Gly Ser Ser Gln Ser Leu Pro Val
 35 40 45
 Val Val Gly Ile Asn Ile Leu Ala Leu Val Gly Ile Leu Thr Ser Ala
 50 55 60
 Phe Ser Val Val Arg His Ala Asp Val Leu Ala His Arg Leu Gly Glu
 65 70 75 80
 Pro Tyr Gly Ser Leu Ile Leu Ser Leu Ser Val Val Ile Leu Glu Val
 85 90 95
 Ser Leu Ile Ser Ala Leu Met Ala Thr Gly Asp Ala Ala Pro Thr Leu
 100 105 110
 Met Arg Asp Thr Leu Tyr Ser Ile Ile Met Ile Val Thr Gly Gly Leu
 115 120 125
 Val Gly Phe Ser Leu Leu Gly Gly Arg Lys Phe Ala Thr Gln Tyr
 130 135 140
 Met Asn Leu Phe Gly Ile Lys Gln Tyr Leu Ile Ala Leu Phe Pro Leu
 145 150 155 160
 Ala Ile Ile Val Leu Val Phe Pro Met Ala Leu Pro Gly Ala Asn Phe
 165 170 175
 Thr Thr Gly Gln Ala Leu Leu Val Ala Leu Ile Ser Ala Ala Met Tyr
 180 185 190
 Gly Val Phe Leu Leu Ile Gln Thr Lys Thr His Gln Ser Leu Phe Val
 195 200 205
 Tyr Glu His Glu Asp Asp Gly Asp Asp Asp Asp Pro His His Gly Lys
 210 215 220
 Pro Ser Ala His Ser Ser Ala Trp His Thr Val Trp Leu Ile Val His
 225 230 235 240
 Leu Ile Ala Val Ile Ala Val Thr Lys Met Asn Ala Asn Pro Leu Glu
 245 250 255
 Ala Leu Leu Thr Glu Leu Asn Ala Pro Val Ala Phe Thr Gly Phe Leu
 260 265 270
 Val Ala Leu Leu Ile Leu Ser Pro Glu Gly Leu Gly Ala Leu Lys Ala
 275 280 285

Val Leu Asn Asn Gln Val Gln Arg Ala Met Asn Leu Phe Phe Gly Ser
 290 295 300
 Val Leu Ala Thr Ile Ser Leu Thr Val Pro Val Val Thr Leu Ile Ala
 305 310 315 320
 Phe Met Thr Gly Asn Glu Leu Gln Phe Ala Leu Gly Ala Pro Glu Met
 325 330 335
 Ile Val Met Val Ala Ser Leu Leu Leu Cys Gln Ile Ser Phe Ser Thr
 340 345 350
 Gly Arg Thr Asn Val Leu Asn Gly Ala Ala His Met Ala Leu Phe Ile
 355 360 365
 Ala Tyr Leu Met Thr Ile Phe Ala
 370 375

<210> 8663

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 8663

Met Met Thr His Trp Pro Phe Pro Ala Lys Leu Asn Leu Phe Leu Tyr
 1 5 10 15
 Ile Thr Gly Gln Arg Ala Asp Gly Tyr His Thr Leu Gln Thr Leu Phe
 20 25 30
 Gln Phe Val Asp Tyr Gly Asp Thr Ile Ser Ile Glu Pro Arg Gln Asp
 35 40 45
 Gly Gln Ile His Leu Leu Thr Pro Val Asp Gly Val Ala His Glu Asp
 50 55 60
 Asn Leu Ile Val Arg Ala Ala Arg Leu Leu Met Lys Thr Ala Ser Ser
 65 70 75 80
 Ser Gly Arg Leu Pro Ala Gly Ser Gly Ala Asp Ile Arg Ile Asp Lys
 85 90 95
 Arg Leu Pro Met Gly Gly Gly Leu Gly Gly Gly Ser Ser Asn Ala Ala
 100 105 110
 Thr Val Leu Val Ala Leu Asn His Leu Trp Asp Cys Gly Leu Thr Thr
 115 120 125
 Asp Glu Leu Ala Ala Leu Gly Leu Thr Leu Gly Ala Asp Val Pro Val
 130 135 140
 Phe Val Arg Gly His Ala Ala Phe Ala Glu Gly Val Gly Glu Ile Leu
 145 150 155 160
 Thr Pro Val Asp Pro Pro Glu Lys Trp Tyr Leu Ile Val His Pro Gly
 165 170 175
 Val Ser Ile Pro Thr Pro Val Ile Phe Lys Asp Pro Asp Leu Lys Arg
 180 185 190
 Asn Thr Pro Val Arg Ser Ile Lys Thr Leu Leu Asn Cys Glu Phe Ser
 195 200 205
 Asn Asp Cys Glu Asp Ile Ala Arg Lys Arg Phe Arg Glu Val Asp Ala
 210 215 220
 Val Leu Ser Trp Leu Leu Glu Tyr Ala Pro Ser Arg Leu Thr Gly Thr
 225 230 235 240
 Gly Ala Cys Val Phe Ala Glu Phe Asp Thr Glu Thr Ala Ala Arg Gln
 245 250 255
 Val Leu Glu Gln Ala Pro Val Trp Leu His Gly Phe Val Ala Arg Gly
 260 265 270
 Met Asn Ile Ser Pro Leu Gln Gln Thr Ile Leu Ala Gln Thr Glu Phe
 275 280 285

Arg

290

<210> 8664

<211> 562

<212> PRT

<213> Enterobacter cloacae

<400> 8664

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Ile Ile Val Lys Lys Val Thr Ser Ser His Val Leu Pro Phe Arg Ala
1      5      10
Leu Ile Asp Ala Cys Trp Lys Glu Lys Tyr Thr Ser Ser Arg Phe Val
20      25      30
Arg Asp Leu Ile Ala Gly Ile Thr Val Gly Ile Ile Ala Ile Pro Leu
35      40      45
Ala Met Ala Leu Ala Ile Gly Ser Gly Val Ala Pro Gln Tyr Gly Leu
50      55      60
Tyr Thr Ser Ala Val Ala Gly Ile Val Ile Ala Leu Thr Gly Gly Ser
65      70      75
Arg Phe Ser Val Ser Gly Pro Thr Ala Ala Phe Val Val Ile Leu Tyr
85      90      95
Pro Val Ser Gln Gln Phe Gly Leu Ala Gly Leu Leu Val Ala Thr Leu
100     105
Met Ser Gly Ile Phe Leu Ile Leu Phe Gly Leu Ala Arg Phe Gly Arg
115     120     125
Leu Ile Glu Tyr Ile Pro Leu Ser Val Thr Leu Gly Phe Thr Ser Gly
130     135     140
Ile Gly Ile Thr Ile Gly Thr Met Gln Ile Lys Asp Phe Leu Gly Leu
145     150     155
Gln Met Ala His Val Pro Glu His Tyr Leu Gln Lys Val Gly Ala Leu
165     170     175
Phe Met Ala Leu Pro Thr Ala Asn Leu Gly Asp Ala Ala Ile Gly Ile
180     185     190
Val Thr Leu Gly Thr Leu Ile Val Trp Pro Arg Leu Gly Ile Arg Leu
195     200     205
Pro Gly His Leu Pro Ala Leu Leu Leu Gly Cys Ala Val Met Gly Val
210     215     220
Val Asn Leu Leu Gly Gly Gln Val Ala Thr Ile Gly Ser Gln Phe His
225     230     235
Tyr Val Leu Ala Asp Gly Ser Gln Gly Ser Gly Ile Pro Gln Leu Leu
245     250     255
Pro Gln Leu Val Leu Pro Trp Asp Met Pro Gly Ser Ser Phe Thr Leu
260     265     270
Ser Trp Asp Ser Leu Arg Ala Leu Leu Pro Ala Ala Phe Ser Met Ala
275     280     285
Met Leu Gly Ala Ile Glu Ser Leu Leu Cys Ala Val Val Leu Asp Gly
290     295     300
Met Thr Gly Thr Lys His Lys Ala Asn Ser Glu Leu Val Gly Gln Gly
305     310     315
Leu Gly Asn Ile Val Val Pro Phe Phe Gly Gly Ile Thr Ala Thr Ala
325     330     335
Ala Ile Ala Arg Ser Ala Ala Asn Val Arg Ala Gly Ala Thr Ser Pro
340     345     350
Val Ser Ala Val Ile His Ser Leu Leu Val Ile Met Ala Leu Leu Ile
355     360     365
Leu Ala Pro Leu Leu Ser Trp Leu Pro Leu Ser Ala Met Ala Ala Leu
370     375     380
Leu Leu Met Val Ala Trp Asn Met Ser Glu Ala His Lys Val Val Asn
385     390     395
Leu Leu Arg Arg Ala Pro Lys Asp Asp Ile Ile Val Met Leu Ile Cys
405     410     415
Met Ser Leu Thr Val Leu Phe Asp Met Val Ile Ala Ile Ser Val Gly
420     425     430
Ile Val Leu Ala Ser Leu Leu Phe Met Arg Arg Ile Ala Gln Met Thr
435     440     445
Arg Leu Ser Pro Val Asn Val Glu Val Pro Asp Asp Val Leu Val Leu
450     455     460

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Arg Val Ile Gly Pro Leu Phe Phe Ala Ala Ala Glu Gly Leu Phe Ser
 465 470 475 480
 Asp Leu Glu Tyr Arg Ile Ala Gly Lys Arg Ile Val Val Leu Lys Trp
 485 490 495
 Asp Ala Val Pro Val Leu Asp Ala Gly Gly Leu Asp Ala Phe Gln Arg
 500 505 510
 Phe Val Ala Arg Leu Pro Glu Gly Cys Glu Leu Arg Ile Ser Asn Leu
 515 520 525
 Glu Phe Gln Pro Leu Arg Thr Met Ala Arg Ala Gly Val Gln Pro Ile
 530 535 540
 Pro Gly Arg Leu Ser Phe Tyr Pro Asn Arg Glu Ala Ala Leu Ala Asp
 545 550 555 560
 Leu

<210> 8665

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 8665

Leu Leu Lys Glu Lys Thr Met Thr Asn Gln Glu Pro Ala Ser Ile Leu
 1 5 10 15
 Leu Ile Asp Asp His Pro Met Leu Arg Thr Gly Val Lys Gln Leu Val
 20 25 30
 Ser Met Ala Pro Asp Ile Thr Val Val Gly Glu Ala Ser Asn Gly Glu
 35 40 45
 Gln Gly Ile Glu Leu Ala Glu Ser Leu Asp Pro Asp Leu Ile Leu Leu
 50 55 60
 Asp Leu Asn Met Pro Gly Met Asn Gly Leu Glu Thr Leu Asp Lys Leu
 65 70 75 80
 Arg Glu Lys Ser Leu Ser Gly Arg Val Val Phe Ser Val Ser Asn
 85 90 95
 His Glu Glu Asp Val Val Thr Ala Leu Lys Arg Gly Ala Asp Gly Tyr
 100 105 110
 Leu Leu Lys Asp Met Glu Pro Glu Asp Leu Leu Lys Ala Leu Gln Gln
 115 120 125
 Ala Ala Ala Gly Glu Met Val Leu Ser Glu Ala Leu Thr Pro Val Leu
 130 135 140
 Ala Ala Ser Leu Arg Ala Asn Arg Ala Thr Ser Asp Arg Asp Val Ser
 145 150 155 160
 Gln Leu Thr Pro Arg Glu Arg Asp Ile Leu Lys Leu Ile Ala Gln Gly
 165 170 175
 Leu Pro Asn Lys Met Ile Ala Arg Arg Leu Asp Ile Thr Glu Ser Thr
 180 185 190
 Val Lys Val His Val Lys His Met Leu Lys Lys Met Lys Leu Lys Ser
 195 200 205
 Arg Val Glu Ala Ala Val Trp Val His Gln Glu Arg Ile Phe
 210 215 220

<210> 8666

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 8666

Ser Thr Ser Pro Val Trp Pro Arg Pro Ala Gln Ala Glu Thr Arg Ala
 1 5 10 15
 Gly Gly Arg Tyr Gly Val Gln Asn Trp Ser Pro Cys Arg Phe Ser Arg
 20 25 30
 Pro Ser Pro Gly Arg Glu Asn Gly Tyr Gly Gln Thr Gly Trp Cys Pro


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<210> 8667
<211> 633
<212> PRT
<213> Enterobacter cloacae
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[illegible]

370
 Leu Arg Asp Ala Ser Ala 375 Ser Val Lys Asn Ala 380 Ala His Glu Ile Ala
 385
 Ala Gly Asn Gln Asp Leu Ser Gly Arg Thr Glu Gln Ala Ala Ser Ser 400
 405
 Leu Arg Glu Thr Ala Ser Ala Val Glu Glu Ile Thr Ala Ser Val Thr 415
 420
 Gln Ser Asn Glu Ser Ala Ala Glu Ala Asn Glu Gln Ala Ser Lys Ala 445
 435
 Ser Ala Ala Ala Ser Arg Gly Gly Asp Val Val Ala Gln Ala Ile Ser 460
 450
 Thr Met Gln Ser Ile Glu Leu Ala Ser Ala Lys Ile Gly Asp Ile Thr 480
 465
 Ser Val Ile Asp Gly Ile Ala Phe Gln Thr Asn Ile Leu Ala Leu Asn 495
 485
 Ala Ser Val Glu Ala Ala Arg Ala Gly Glu Gln Gly Arg Gly Phe Ala 510
 500
 Val Val Ala Gly Glu Val Arg Asn Leu Ala Ser Arg Ser Ala Gln Ala 525
 515
 Ala Lys Glu Ile Lys Ser Leu Ile Asp Ser Thr Thr Glu Ser Val Ala 540
 530
 Thr Gly Ser Arg Phe Val His Leu Ala Gly Asp Ser Met Asp Glu Ile 560
 545
 Arg Ala Ser Val Gly Ser Val Ser Gly Ile Met Arg Glu Ile Ser Ile 575
 565
 Ala Thr Arg Glu Gln Met Lys Gly Ile His Glu Ile Asn His Ala Val 590
 580
 Thr His Leu Asp Arg Met Val Gln Gln Asn Ala Glu Leu Val Val Gln 605
 595
 Ser Ala Ala Ala Ala Ser Ala Leu Gln Ser Gln Ala Gly Asp Leu Ala 620
 610
 Glu Thr Ala Gly His Phe Arg Ile
 625 630

<210> 8668

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 8668

Thr Val Ala Pro Phe Asn Ala Ser Ile Asn Ser Tyr Asn Cys Asn Val
 1 5 10 15
 Ser Gln Gly Phe Val Ile Ile Met Thr Arg Met Ile Arg Leu Leu Pro
 20 25 30
 Leu Ala Ala Leu Val Leu Thr Ala Cys Ser Val His Gln Pro Lys Gly
 35 40 45
 Pro Gly Lys Ser Pro Asp Ser Pro Gln Trp Arg Gln His Gln Gln Asp
 50 55 60
 Val Leu Lys Leu Ser Gln Tyr Gln Thr Arg Gly Ala Phe Ala Tyr Leu
 65 70 75 80
 Ser Asp Glu Gln Lys Val Tyr Ala Arg Phe Trp Gln Gln Thr Gly
 85 90 95
 Gln Asp Asn Tyr Arg Leu Leu Leu Asn Pro Leu Gly Ser Thr Glu
 100 105 110
 Leu Glu Leu Asn Ala Lys Pro Gly Glu Ala Gln Ile Thr Asp Asn Lys
 115 120 125
 Gly Gln His Tyr Thr Ala Thr Asp Ala Glu Glu Met Ile Gly Lys Leu
 130 135 140
 Asn Gly Met Pro Ile Pro Leu Asn Ser Leu His Gln Trp Ile Leu Gly
 145 150 155 160
 Leu Pro Gly Asp Ala Thr Asp Tyr Thr Leu Asp Asp Gln

<210> 8669

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 8669

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Ile Val Thr Ile Lys Leu Ile Val Gly Leu Ala Asn Pro Gly Ala Glu
1          5          10          15
Tyr Ala Ala Thr Arg His Asn Ala Gly Ala Trp Tyr Val Asp Leu Leu
          20          25          30
Ala Glu Arg Leu Arg Ala Pro Leu Arg Glu Glu Pro Lys Phe Tyr Gly
          35          40          45
Tyr Thr Ser Arg Ile Asn Leu Ala Gly Ala Asp Val Arg Leu Leu Val
          50          55          60
Pro Thr Thr Phe Met Asn Leu Ser Gly Lys Ala Val Ala Ala Met Ala
65          70          75          80
Thr Phe Tyr Arg Ile Asn Pro Asp Glu Ile Leu Val Ala His Asp Glu
          85          90          95
Leu Asp Leu Pro Pro Gly Val Ala Lys Phe Lys Leu Gly Gly His
          100          105          110
Gly Gly His Asn Gly Leu Lys Asp Ile Ile Ser Lys Leu Gly Asn Asn
          115          120          125
Pro Asn Phe His Arg Leu Arg Val Gly Ile Gly His Pro Gly Asp Lys
          130          135          140
Asn Lys Val Val Gly Phe Val Leu Gly Lys Pro Pro Val Ser Glu Gln
145          150          155          160
Lys Leu Ile Asp Glu Ala Val Asp Glu Ala Ala Arg Cys Thr Glu Ile
          165          170          175
Trp Leu Gln Asp Gly Leu Thr Lys Ala Thr Asn Arg Leu His Ala Phe
          180          185          190
Lys Ala Gln
195

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<210> 8670

<211> 369

<212> PRT

<213> Enterobacter cloacae

<400> 8670

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Gly Asp Leu Glu Met Gly Phe Lys Cys Gly Ile Val Gly Leu Pro Asn
1          5          10          15
Val Gly Lys Ser Thr Leu Phe Asn Ala Leu Thr Lys Ala Gly Ile Glu
          20          25          30
Ala Ala Asn Phe Pro Phe Cys Thr Ile Glu Pro Asn Thr Gly Val Val
          35          40          45
Pro Met Pro Asp Pro Arg Leu Asp Gln Leu Ala Glu Ile Val Lys Pro
          50          55          60
Gln Arg Ile Leu Pro Thr Thr Met Glu Phe Val Asp Ile Ala Gly Leu
65          70          75          80
Val Lys Gly Ala Ser Lys Gly Glu Gly Leu Gly Asn Gln Phe Leu Thr
          85          90          95
Asn Ile Arg Glu Thr Glu Ala Ile Gly His Val Val Arg Cys Phe Glu
          100          105          110
Asn Asp Asn Ile Ile His Val Asn Asn Lys Val Asp Pro Ala Asp Asp
          115          120          125
Ile Asp Val Ile Asn Thr Glu Leu Ala Leu Ser Asp Leu Asp Thr Cys
          130          135          140
Glu Arg Ala Ile His Arg Val Gln Lys Lys Ala Lys Gly Gly Asp Lys
145          150          155          160

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Asp Ala Lys Ala Glu Leu Ala Ala Leu Glu Lys Cys Leu Pro Gln Leu
 165 170 175
 Glu Asn Ala Gly Met Leu Arg Ala Leu Lys Asn Leu Thr Asp Glu Asp
 180 185 190
 Lys Ala Ala Ile Lys Tyr Leu Ser Phe Leu Thr Leu Lys Pro Thr Met
 195 200 205
 Tyr Ile Ala Asn Val Asn Glu Asp Gly Phe Glu Asn Asn Pro Tyr Leu
 210 215 220
 Asp Lys Val Arg Glu Ile Ala Ala Ala Glu Gly Ser Val Val Val Ala
 225 230 235 240
 Val Cys Ala Ala Val Glu Ser Asp Ile Ala Glu Leu Asp Asp Ala Asp
 245 250 255
 Arg Glu Glu Phe Met Ala Glu Leu Gly Leu Glu Glu Pro Gly Leu Asn
 260 265 270
 Arg Val Ile Arg Ala Gly Tyr Glu Leu Leu Asn Leu Gln Thr Tyr Phe
 275 280 285
 Thr Ala Gly Val Lys Glu Val Arg Ala Trp Thr Ile Pro Val Gly Ala
 290 295 300
 Thr Ala Pro Gln Ala Ala Gly Lys Ile His Thr Asp Phe Glu Lys Gly
 305 310 315 320
 Phe Ile Arg Ala Gln Thr Ile Ala Phe Glu Asp Phe Ile Thr Tyr Lys
 325 330 335
 Gly Glu Gln Gly Ala Lys Glu Ala Gly Lys Met Arg Ala Glu Gly Lys
 340 345 350
 Asp Tyr Ile Val Lys Asp Gly Asp Val Met Asn Phe Leu Phe Asn Val
 355 360 365

<210> 8671

<211> 339

<212> PRT

<213> *Enterobacter cloacae*

<400> 8671

Arg Leu Leu Arg Pro Arg Ser Leu Arg Arg Thr Leu Ser Thr Thr Gly
 1 5 10 15
 Arg Met Pro Glu Val Leu Leu Val Pro Asp Met Lys Leu Phe Ala Gly
 20 25 30
 Asn Ala Thr Pro Glu Leu Ala Gln Arg Ile Ala Asn Arg Leu Tyr Thr
 35 40 45
 Ser Leu Gly Asp Ala Ala Val Gly Arg Phe Ser Asp Gly Glu Val Ser
 50 55 60
 Val Gln Ile Asn Glu Asn Val Arg Gly Gly Asp Ile Phe Ile Ile Gln
 65 70 75 80
 Ser Thr Cys Ala Pro Thr Asn Asp Asn Leu Met Glu Leu Val Val Met
 85 90 95
 Val Asp Ala Leu Arg Arg Ala Ser Ala Gly Arg Ile Thr Ala Val Ile
 100 105 110
 Pro Tyr Phe Gly Tyr Ala Arg Gln Asp Arg Arg Val Arg Ser Ala Arg
 115 120 125
 Val Pro Ile Thr Ala Lys Val Val Ala Asp Phe Leu Ser Ser Val Gly
 130 135 140
 Val Asp Arg Val Leu Thr Val Asp Leu His Ala Glu Gln Ile Gln Gly
 145 150 155 160
 Phe Phe Asp Val Pro Val Asp Asn Val Phe Gly Ser Pro Ile Leu Leu
 165 170 175
 Glu Asp Met Leu Gln Leu Asn Leu Asp Asn Pro Ile Val Val Ser Pro
 180 185 190
 Asp Ile Gly Gly Val Val Arg Ala Arg Ala Ile Ala Lys Leu Leu Asn
 195 200 205

Asp Thr Asp Met Ala Ile Ile Asp Lys Arg Arg Pro Arg Ala Asn Val
 210 215 220
 Ser Gln Val Met His Ile Ile Gly Asp Val Ala Gly Arg Asp Cys Val
 225 230 235 240
 Leu Val Asp Asp Met Ile Asp Thr Gly Gly Thr Leu Cys Lys Ala Ala
 245 250 255
 Glu Ala Leu Lys Glu Arg Gly Ala Lys Arg Val Phe Ala Tyr Ala Thr
 260 265 270
 His Pro Ile Phe Ser Gly Asn Ala Val Asn Asn Leu Arg Asn Ser Val
 275 280 285
 Ile Asp Glu Val Val Val Cys Asp Thr Ile Pro Leu Ser Asp Glu Ile
 290 295 300
 Lys Ala Leu Pro Asn Val Arg Thr Leu Thr Leu Ser Gly Met Leu Ala
 305 310 315 320
 Glu Ala Ile Arg Arg Ile Ser Asn Glu Glu Ser Ile Ser Ala Met Phe
 325 330 335
 Glu His

<210> 8672

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 8672

His Met Lys Arg Lys Asn Ala Ser Met Leu Gly Asn Val Leu Met Gly
 1 5 10 15
 Leu Gly Leu Phe Val Met Val Ala Gly Val Gly Tyr Ser Ile Leu Asn
 20 25 30
 Gln Leu Pro Gln Leu Asp Leu Pro Gln Tyr Phe Ala His Gly Ala Val
 35 40 45
 Leu Ser Ile Phe Leu Gly Ala Val Leu Trp Leu Ala Gly Ala Arg Val
 50 55 60
 Ser Gly His Glu Glu Val Cys Asp Lys Tyr Trp Trp Val Arg His Tyr
 65 70 75 80
 Asp Lys Arg Cys Arg Arg Asp Gln Arg Lys His Ser
 85 90

<210> 8673

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 8673

Pro Ser Arg Asn Val Arg Leu Gln Ser Asn Asp Thr Gly Arg Thr Lys
 1 5 10 15
 Gly Ala Val Met Leu Ile Gln Val Gly Glu Leu Ala Lys Arg Ala Gly
 20 25 30
 Ile Thr Val Arg Thr Leu His His Tyr Glu Gln Thr Gly Leu Leu
 35 40 45
 Pro Ser Ala Arg Ser Ala Ala Gly Tyr Arg Leu Tyr Asn Leu Ala Asp
 50 55 60
 Val Gln Arg Leu His Met Ile Gln Thr Leu Ala Lys Ala Gly Leu Glu
 65 70 75 80
 Leu Ala Glu Ile Arg Asp Phe Leu Lys Gln Arg Ser Leu Ser Leu Ala
 85 90 95
 Glu Leu Leu Asp Gly Gln Ile Thr Leu Leu Asp Lys Gln Leu Arg Ser
 100 105 110
 Ile His Thr Leu Arg Asn Arg Leu Val Glu Leu Arg Thr Gly Leu Thr
 115 120 125
 Asp Asp Ala Thr Pro Asp Leu Glu Ser Trp Leu Gln Thr Leu Glu Leu

130	135	140
Met Asn Met Tyr Asp Arg	Trp Phe Ser Lys Glu	Glu Leu Gln Gln Leu
145	150	155
Pro Phe Ala Val Glu Lys	Glu Ala Leu Ala Asp	Ile Trp Ser Gly Leu
	165	170
Val Arg Glu Val Lys His	Leu Leu Glu Gln Asn	Val Ser Val Thr Asp
	180	185
Ala Arg Ala Thr Asp Leu	Ala Ser Arg Trp Met	Glu Arg Leu Glu Gln
	195	200
Asp Thr Ala Gly Lys Pro	Glu Phe Leu Thr Arg	Leu Asn Glu Met His
	210	215
Ser Val Glu Pro Gln Met	Gln Glu Gln Thr Gly	Ile Thr Pro Glu Ile
	225	230
Thr Asp Tyr Ile Thr Arg	Ala Phe Ala Glu Ser	Lys Leu Ser Ile Trp
	245	250
Glu Lys Tyr Leu Thr Ala	Glu Glu Met Ala Phe	Thr Arg Ala His Tyr
	260	265
Phe Asp Arg Met Met Glu	Trp Pro Pro Leu Val	Ala Lys Leu His Gln
	275	280
Ala Gln Arg Asp Asn Leu	Ser Pro Ala Ser Asp	Asp Ala Gln Lys Leu
	290	295
Ala Glu Lys Trp Leu Val	Leu Phe Gln Ser Tyr	Ala Gly Thr Asn Pro
	305	310
Gln Thr Gln Gln Lys Phe	Arg Leu Ala Met Gln	Gln Glu Pro His Leu
	325	330
Met Lys Gly Thr Trp Met	Thr Pro Ala Val Leu	Glu Trp Leu Gln Gln
	340	345
Ala Ile Gly Val Met Met	Gln Arg Arg Val Ser	Ala Ser Asp Asp Ser
	355	360
Gln Ile Arg		
370		

<210> 8674

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 8674

Ala Tyr Arg Ala Gly Ile	Pro Gly Arg Pro	Ala Gly Gly Thr	Val Arg
1	5	10	15
Ala Gly Leu Met Asp Phe	Gln Arg Trp Leu	Arg His Ala Ala	Ser Glu
	20	25	30
Leu Ser Ala Ser Glu Ser	Pro Lys Arg Asp	Ala Glu Ile Leu	Leu Glu
	35	40	45
His Val Thr Gly Lys Ala	Arg Thr Tyr Leu	Leu Ala Phe	Gly Glu Thr
	50	55	60
Ala Leu Thr Ala Glu Gln	Gln Ser Gln Leu	Glu Thr Leu Leu	Ala Arg
	65	70	75
Arg Lys Thr Gly Glu Pro	Val Ala His Leu	Val Gly Glu Arg	Glu Phe
	85	90	95
Trp Ser Leu Pro Leu Tyr	Val Ser Ala Ala	Thr Leu Ile Pro	Arg Pro
	100	105	110
Asp Thr Glu Cys Leu Val	Glu Gln Ala Leu	Ala Arg Leu Pro	Ala Gln
	115	120	125
Pro Cys Gln Ile Leu Asp	Leu Gly Thr Gly Thr	Gly Ala Ile Ala	Leu
	130	135	140
Ala Leu Ala Ser Glu Arg	Pro Asp Cys Thr Val	Thr Ala Val Asp	Val
	145	150	155
Met Pro Asp Ala Val Ala	Leu Ala Arg Asn	Val Glu Arg Leu	Gly
	165	170	175
Leu Asn Asn Val Ser Val	Leu Gln Ser Ser Trp	Phe Ala Ala Leu	Glu

	180		185		190
Ser Arg Met	Phe Glu Met Ile Val	Ser Asn Pro Pro Tyr	Ile Asp Glu		
195	200	205			
Asp Asp Pro	His Leu Ala Gln Gly Asp Val Arg Phe	Glu Pro Leu Thr			
210	215	220			
Ala Leu Val	Ala Ala Asn Gln Gly Leu Ala Asp	Leu Asp His Ile Val			
225	230	235			
Thr Thr Ser	Arg Gln His Leu Leu Pro Gly Gly	Trp Leu Leu Val Glu			
	245	250			
His Gly Trp	Thr Gln Gly Glu Ala Val Arg Ala	Leu Phe Thr His Ala			
	260	265			
Gly Tyr Ala	Ala Val Glu Thr Cys Arg Asp Tyr Gly	Gly Asn Glu Arg			
	275	280			
Leu Thr Leu	Gly Gln Arg Ser				
290	295				

<210> 8675

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 8675

His Phe Arg Arg	Leu Thr Cys Arg Cys	Ile Ala Ser Gly	Pro Arg Ile
1	5	10	15
Ala Tyr Arg Cys	Ser Thr Ala Val Lys Met	Asn Ser Thr Glu	Cys Gln
	20	25	30
Glu Gly Glu	Leu Gln Met Ser Gln Gly	Ser Met Gln Trp	Arg Arg Trp
	35	40	45
Asn Val Leu	Thr Arg Asp Phe Leu Met	Lys Ala Asp Cys	Lys Thr Ala
	50	55	60
Phe Gly Ala	Ile Glu Glu Ser Leu Leu Trp	Ser Ala Glu Gln	Arg Ala
	65	70	75
Ala Ser Leu	Ala Ala Thr Leu Ala Cys Arg	Pro Asp Asp Gly	Pro Val
	85	90	95
Trp Ile Phe	Gly Tyr Gly Ser Leu Met	Trp Asn Pro Ala	Leu Glu Phe
	100	105	110
Val Glu Ser	Ala Thr Gly Thr Leu Pro Gly	Trp His Arg Ala	Phe Cys
	115	120	125
Leu Arg Leu	Thr Ala Gly Arg Gly Ser Ala Cys	Gln Pro Gly Arg	Met
	130	135	140
Leu Ala Leu	Lys Glu Gly Gly Arg Thr Thr	Gly Val Ala Tyr	Arg Leu
	145	150	155
Pro Asp Thr	Thr Leu Glu Asp Glu Leu Thr	Leu Leu Trp Lys	Arg Glu
	165	170	175
Met Ile Thr	Gly Cys Tyr Met Pro Ser	Trp Cys Lys Leu	Glu Leu Asp
	180	185	190
Asp Gly Arg	Thr Val Asn Ala Leu Val Phe	Ile Met Asp Pro	Arg His
	195	200	205
Pro Leu Tyr	Glu Ala Asp Thr Arg Thr	Gln Val Ile Ala	Pro Leu Ile
	210	215	220
Ala Ala Ala	Ser Gly Pro Leu Gly Thr Asn Ala	Gln Tyr Leu Phe	Ser
	225	230	235
Leu Asp Gln	Glu Leu Thr Arg Leu Gly Met	Gln Asp Asp Cys	Leu Ser
	245	250	255
Glu Leu Val	Val Lys Val Lys Ala Leu Leu	Glu Gly Asn Pro	Leu Ser
	260	265	270
Asn Thr Leu	Arg Pro Gly Phe Ala		
	275	280	

<210> 8676

<211> 455

<212> PRT

<213> *Enterobacter cloacae*

<400> 8676

Gln Ile Asn His Phe Arg Arg Cys Ala Asn Gly Gly Ala Cys Val Phe
 1 5 10 15
 Arg Ile Lys Ala Ser Ser Gly Ala Ser Ala Pro Ser Gly Ala Phe Phe
 20 25 30
 Cys Leu Phe Ser Gly Ala Ile Met Ala Asp Leu Ser Arg Arg Arg Leu
 35 40 45
 Leu Gln Ala Ser Met Leu Ala Ser Gly Ala Met Leu Pro Gly Val
 50 55 60
 Met Gln Ala Ala Trp Ala Ala Gly Ser Asp Lys Pro Glu Gln Asp Thr
 65 70 75 80
 Val Arg Ile Gly Phe Ile Pro Leu Thr Asp Cys Ala Pro Val Val Ile
 85 90 95
 Ala Ala Leu Lys Gly Phe Asp Lys Lys His Gly Ile Thr Ile Val Pro
 100 105 110
 Thr Lys Glu Ala Ser Trp Ala Ala Val Arg Asp Lys Leu Val Ala Gly
 115 120 125
 Glu Leu Asp Ala Ala His Ile Leu Tyr Gly Leu Leu Tyr Gly Leu Glu
 130 135 140
 Leu Gly Ile Ala Gly Lys Pro Gln Gln Met Ala Asn Leu Met Thr Leu
 145 150 155 160
 Asn Gln Asn Gly Gln Ala Ile Thr Leu Ser Ser Asp Leu Ala Glu Lys
 165 170 175
 Gly Val Arg His Leu Asp Gly Leu Lys Lys Leu Ile Ala Gln Gln Ala
 180 185 190
 Pro Gly Thr Tyr Thr Phe Ala His Thr Phe Pro Thr Gly Thr His Ala
 195 200 205
 Met Trp Leu Tyr Tyr Trp Leu Ala Ser Ala Gly Ile Asn Pro Phe Asp
 210 215 220
 Asp Val Arg Thr Val Val Val Pro Pro Pro Met Val Met Asn Met
 225 230 235 240
 Arg Ile Gly Asn Met Val Gly Phe Cys Val Gly Glu Pro Trp Asn Ala
 245 250 255
 Arg Ala Ile Asn Asp Arg Ile Gly Phe Thr Ala Ala Thr Ser Gln Ser
 260 265 270
 Ile Trp Ala Asp His Pro Glu Lys Ile Leu Gly Thr Arg Arg Asp Trp
 275 280 285
 Val Ala Lys Asn Pro His Thr Ala Arg Ala Leu Val Ser Ala Val Met
 290 295 300
 Glu Ala Ala Arg Trp Ile Glu Ala Ser Ala Glu Asn Lys Arg Glu Thr
 305 310 315 320
 Ala Gln Ile Leu Ser Arg Arg Ala Trp Leu Asn Cys Lys Glu Gln Tyr
 325 330 335
 Leu Thr Gly Arg Met Leu Gly Glu Tyr Asp Asn Gly Val Gly Gln Arg
 340 345 350
 Trp Gln Asp Ala His Pro Ile Arg Phe Phe Asn Glu Gly Ala Val Ser
 355 360 365
 Tyr Pro Tyr Leu Ser Asp Gly Met Trp Phe Leu Thr Thr Phe Arg Arg
 370 375 380
 Trp Gly Leu Leu Asn Ala Ala Pro Asp Tyr Ala Gly Ile Ala Gln Arg
 385 390 395 400
 Ile Asn Gln Thr Ala Val Trp Gln Asp Ala Ala Thr Ala Val Gly Gly
 405 410 415
 Met Ser Thr Pro Ser Ser Pro Tyr Arg Ser Ser Thr Leu Met Asp Gly
 420 425 430
 Thr Val Trp Asn Gly Thr Asp Pro Glu Gly Tyr Ala Asn Arg Phe Ala
 435 440 445
 Ile His Arg Lys Gly Ala

450

455

<210> 8677

<211> 480

<212> PRT

<213> Enterobacter cloacae

<400> 8677

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Ser Pro Asn Val Cys Ser Ile Ile Arg Glu Ser Glu Val Ser Met Ser
1      5      10      15
His Ser Ser Ala Pro Glu Arg Glu Thr Gly Ala Val Ile Thr Asp Trp
20      25      30
Arg Pro Glu Asp Pro Ala Phe Trp Gln Gln Arg Gly His Arg Val Ala
35      40      45
Ser Arg Asn Leu Trp Ile Ser Val Pro Cys Leu Leu Ala Phe Cys
50      55      60
Val Trp Met Leu Phe Ser Ala Val Ala Val Asn Leu Pro Lys Val Gly
65      70      75      80
Phe Thr Phe Thr Thr Asp Gln Leu Phe Met Leu Thr Ala Leu Pro Ser
85      90      95
Leu Ser Gly Ala Leu Leu Arg Val Pro Tyr Ala Phe Met Val Pro Val
100      105      110
Phe Gly Gly Arg Arg Trp Thr Ala Phe Ser Thr Gly Ile Met Ile Ile
115      120      125
Pro Cys Val Trp Leu Gly Phe Ala Val Gln Asp Thr Ser Thr Pro Phe
130      135      140
Ser Val Phe Val Ile Ile Ser Leu Leu Cys Gly Phe Ala Gly Ala Asn
145      150      155      160
Phe Ala Ser Ser Met Ala Asn Ile Ser Phe Phe Phe Pro Lys Ala Lys
165      170      175
Gln Gly Gly Ala Leu Gly Ile Asn Gly Gly Leu Gly Asn Met Gly Val
180      185      190
Ser Val Met Gln Leu Ile Ala Pro Leu Ala Ile Ser Val Ser Ile Phe
195      200      205
Ala Ala Phe Gly Gly Gly Val Thr Gln Pro Asp Gly Ser Val Leu
210      215      220
Phe Leu Gln Asn Ala Ser Trp Ile Trp Val Pro Phe Leu Val Val Phe
225      230      235      240
Thr Leu Ala Ala Cys Phe Phe Met Asn Asp Leu Ser Ala Ser Lys Ala
245      250      255
Ser Leu Ser Glu Gln Leu Pro Val Leu Lys Arg Gly His Leu Trp Val
260      265      270
Met Ala Leu Leu Tyr Leu Ala Thr Phe Gly Ser Phe Ile Gly Phe Ser
275      280      285
Ala Gly Phe Ala Met Leu Ser Lys Thr Gln Phe Pro Asp Val Gln Ile
290      295      300
Leu Gln Phe Ala Phe Phe Gly Pro Phe Ile Gly Ala Leu Ala Arg Ser
305      310      315      320
Leu Gly Gly Met Ile Ser Asp Arg Leu Gly Gly Thr Arg Val Thr Leu
325      330      335
Val Asn Phe Val Val Met Ala Ile Phe Cys Ala Leu Leu Phe Leu Thr
340      345      350
Leu Pro Ala Gly Gly Glu Gly Gly Asn Phe Phe Ala Phe Phe Gly Val
355      360      365
Phe Met Val Leu Phe Leu Thr Ala Gly Leu Gly Ser Ala Ser Thr Phe
370      375      380
Gln Met Ile Ser Val Ile Phe Arg Lys Leu Thr Met Asp Arg Val Lys
385      390      395      400
Ala Gln Gly Gly Ser Asp Glu Gln Ala Met Arg Glu Ala Ala Thr Asp
405      410      415
Thr Ala Ala Ala Leu Gly Phe Ile Ser Ala Ile Gly Ala Ile Gly Gly

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420 425 430
 Phe Phe Ile Pro Lys Ala Phe Gly Ile Ser Leu Asp Leu Thr Gly Ser
 435 440 445
 Pro Ala Gly Ala Met Lys Val Phe Leu Val Phe Tyr Ile Ala Cys Val
 450 455 460
 Val Ile Thr Trp Leu Val Tyr Gly Arg Asn Thr Lys Lys Asn Lys
 465 470 475 480

<210> 8678

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 8678

Thr Pro Asp Asn Ser Ala Gln Gln Pro Arg Ala Gly Ile Ala Pro Tyr
 1 5 10 15
 Thr His Phe Leu Arg Gln Gly Ala Phe Thr Pro Met Lys Pro Ser Ile
 20 25 30
 Val Ala Lys Leu Glu Ala Leu His Glu Arg His Glu Glu Val Gln Ala
 35 40 45
 Leu Leu Gly Asp Ala Gly Thr Ile Ala Asp Gln Glu Arg Phe Arg Ala
 50 55 60
 Leu Ser Arg Glu Tyr Ala Gln Leu Ser Asp Val Ser Lys Cys Phe Thr
 65 70 75 80
 Asp Trp Arg Gln Val Gln Glu Asp Ile Glu Thr Ala Gln Met Met Leu
 85 90 95
 Asp Asp Pro Glu Met Arg Glu Met Ala Gln Glu Glu Leu Gln Asp Ala
 100 105 110
 Lys Ala Arg Ser Glu Glu Met Glu Gln Gln Leu Gln Val Leu Leu Leu
 115 120 125
 Pro Lys Asp Pro Asp Asp Glu Arg Asn Ala Phe Val Glu Val Arg Ala
 130 135 140
 Gly Thr Gly Gly Asp Glu Ala Ala Leu Phe Ala Gly Asp Leu Phe Arg
 145 150 155 160
 Met Tyr Ser Arg Tyr Ala Glu Ser Arg Arg Trp Arg Val Glu Ile Met
 165 170 175
 Ser Ala Asn Glu Gly Glu His Gly Gly Tyr Lys Glu Val Ile Ala Lys
 180 185 190
 Ile Ser Gly Asp Gly Val Tyr Gly Arg Leu Lys Phe Glu Ser Gly Gly
 195 200 205
 His Arg Val Gln Arg Val Pro Ala Thr Glu Ser Gln Gly Arg Ile His
 210 215 220
 Thr Ser Ala Cys Thr Val Ala Val Met Pro Glu Leu Pro Glu Ala Glu
 225 230 235 240
 Leu Pro Asp Ile Asn Pro Ala Asp Leu Arg Ile Asp Thr Phe Arg Ser
 245 250 255
 Ser Gly Ala Gly Glu Gln His Val Tyr Thr Thr Asp Ser Ala Ile Arg
 260 265 270
 Ile Thr His Leu Pro Thr Gly Ile Val Val Glu Cys Gln Asp Glu Arg
 275 280 285
 Ser Gln His Lys Asn Lys Ala Lys Ala Leu Ser Val Leu Gly Ala Arg
 290 295 300
 Ile His Ala Ala Glu Met Ala Lys Arg Gln Gln Ala Glu Ala Ser Thr
 305 310 315 320
 Arg Arg Asn Leu Leu Gly Ser Gly Asp Arg Ser Asp Arg Asn Arg Thr
 325 330 335
 Tyr Asn Phe Pro Gln Gly Arg Val Thr Asp His Arg Ile Asn Leu Thr
 340 345 350
 Leu Tyr Arg Leu Asp Glu Ala Met Glu Gly Lys Leu Asp Met Leu Ile
 355 360 365
 Glu Pro Ile Val Gln Glu Tyr Gln Ala Asp Gln Leu Ala Ala Leu Ser

370
Glu Gln Asp
385

375

380

<210> 8679
<211> 83
<212> PRT
<213> Enterobacter cloacae

<400> 8679
Pro Lys Glu Arg Leu Thr Met Pro Tyr Lys Ser Lys Ser Glu Leu Pro
1 5 10 15
Asp Asn Val Gln Asn Val Leu Pro Ala His Ala Gln Asp Ile Tyr Lys
20 25 30
Glu Ala Phe Asn Ser Ala Trp Asp Gln Tyr Lys Asp Lys Lys Asp Arg
35 40 45
Arg Asp Asp Ala Ser Arg Glu Glu Thr Ala His Lys Val Ala Trp Ala
50 55 60
Ala Val Lys Asn Asp Tyr Glu Lys Gly Asp Asp Asp Lys Trp His Lys
65 70 75 80
Lys Lys

<210> 8680
<211> 409
<212> PRT
<213> Enterobacter cloacae

<400> 8680
Lys Gly Thr Asn Ile Ala Ser Arg Thr Glu Tyr Val Ser Gly Arg
1 5 10 15
Glu Thr Met Thr Ile Val Ala Gly Ser Ser Pro Gly Ala Thr Glu Trp
20 25 30
Phe Gln Arg Ala Arg Met Leu Arg Glu Glu Gln Leu Gly Arg Leu Ala
35 40 45
Gln Leu Gly Ala Leu Val Asn Gly Ile Ser Arg Leu Val His Met Leu
50 55 60
Gln Cys Glu Arg Gly Ala Ser Asn Val Trp Leu Cys Ser Gln Gly Lys
65 70 75 80
Leu Tyr Ala Pro Glu Cys Lys Ala Ser Arg Ala Leu Val Asp Glu Asn
85 90 95
Leu Ala Ala Leu His Leu Gln Phe Asn Glu Pro Leu Pro Gly Ser Ala
100 105 110
Leu Cys Glu Arg Ile Ala Ser Ala Leu His Gly Leu Glu Thr Leu Thr
115 120 125
Ala Leu Arg Asp Gly Val Thr Gly Gln Cys Val Thr Ala Pro Gln Ala
130 135 140
Met Glu His Tyr Ser Arg Ile Leu Arg His Leu Leu Ser Ile Val Pro
145 150 155 160
Gln Leu Ser Asp Ser Ile Asp Asp Pro His Ile Ala Gly Arg Phe Val
165 170 175
Ala Leu Tyr Ser Leu Met Gln Gly Lys Glu Leu Val Gly Gln Glu Arg
180 185 190
Ala Leu Gly Ala Ile Gly Phe Thr Gln Gly Phe Phe Asp Asp Glu Thr
195 200 205
Arg Gln Arg Leu Val Asp Arg Ile Asp Gly Gln Gln Ala Cys Phe Glu
210 215 220
Val Phe Ile Ser His Cys Thr Pro Asp Val Gln Glu Ser Phe Thr Leu
225 230 235 240
Asn Cys Leu Pro Gly Leu Glu Thr Glu Lys Leu Arg Arg Glu Ala Cys
245 250 255

Thr Arg Gln Pro Pro Ala Asp Asn Gly Asp Thr Ala Leu Lys Trp Phe
 260 265 270
 Ala Leu Gln Thr Ala Arg Leu Glu His Leu Arg Thr Leu Glu Glu Val
 275 280 285
 Ala Ile Ala Asp Leu Met Thr Ala Val Glu Glu Arg Arg Tyr Ser Glu
 290 295 300
 Asn Leu His Ala Asp Asp Glu His Asp Asp Ile Leu Ala Arg Phe Pro
 305 310 315 320
 Asp Lys Pro Leu Leu Pro Leu Val Arg Gln Gln Ala Arg Glu Ile Glu
 325 330 335
 Gln Leu Ser Arg Gln Leu Ala Ser Leu Arg Asp Thr Leu Glu Glu Arg
 340 345 350
 Lys Thr Ile Asp Lys Ala Lys Ser Val Leu Met Thr His Gln Asn Met
 355 360 365
 Ser Glu Glu Gln Ala Trp Thr Ala Leu Arg Lys Met Ala Met Asp Lys
 370 375 380
 Asn Gln Arg Met Val Asp Ile Ala Arg Ala Leu Leu Thr Val Lys Asn
 385 390 395 400
 Leu Trp Lys Ile Pro Pro Gly Glu
 405

<210> 8681

<211> 835

<212> PRT

<213> Enterobacter cloacae

<400> 8681

Arg Ala Gly Asp Ala Cys Gly Gly Leu Met Thr Glu Thr Arg Thr Thr
 1 5 10 15
 Cys Pro Tyr Cys Gly Val Gly Cys Gly Val Val Ala Ser Ala Asp Gly
 20 25 30
 Glu Lys Val Ser Ile Arg Gly Asp Glu Thr His Pro Ala Asn Phe Gly
 35 40 45
 Arg Leu Cys Val Lys Gly Ser Ala Leu Gly Glu Thr Thr Gly Leu Gln
 50 55 60
 Gly Arg Leu Leu Arg Pro Val Val Asp Gly Arg Glu Val Ala Trp Pro
 65 70 75 80
 Gln Ala Leu Gly Glu Ala Gly Glu Arg Leu Arg Asn Ile Ile Asn Glu
 85 90 95
 Trp Gly Pro Gln Ala Val Ala Phe Tyr Ala Ser Gly Gln Leu Leu Thr
 100 105 110
 Glu Asp Tyr Thr Ala Ala Asn Lys Leu Met Lys Gly Phe Ile Gly Ala
 115 120 125
 Ala Asn Ile Asp Thr Asn Ser Arg Leu Cys Met Ser Ser Ala Val Val
 130 135 140
 Gly Tyr Lys Arg Ala Phe Gly Glu Asp Val Val Pro Cys Ser Tyr Glu
 145 150 155 160
 Asp Val Glu Asn Ser Asp Leu Val Val Leu Val Gly Ser Asn Ala Ala
 165 170 175
 Trp Thr His Pro Val Leu Tyr Gln Arg Leu Val Gln Ala Lys His Asn
 180 185 190
 Asn Pro Gln Met Lys Val Val Val Ile Asp Pro Arg Lys Thr Ala Thr
 195 200 205
 Cys Asp Ile Ala Asp Leu His Leu Ala Leu Arg Pro Gly Ser Asp Ala
 210 215 220
 Gly Leu Phe Val Gly Leu Leu Asn Leu Ile Gln Gly Arg Gly Glu Trp
 225 230 235 240
 Pro Ile Pro Arg Val Ala Ala Phe Cys Asp Leu Pro Ser Asp Glu Ile
 245 250 255
 Ser Thr Phe Tyr Asp Trp Phe Ile Thr Ala Pro Arg Ala Ile Thr Leu
 260 265 270

Tyr Thr Met Gly Ile Asn Gln Ser Ser Thr Gly Ser Asp Lys Cys Asn
 275 280 285
 Ala Ile Ile Asn Val His Leu Ala Ser Gly Lys Phe Asn Arg Pro Gly
 290 295 300
 Cys Gly Pro Phe Ser Leu Thr Gly Gln Pro Asn Ala Met Gly Gly Arg
 305 310 315 320
 Glu Val Gly Gly Leu Ala Asn Gln Leu Ala Ala His Met Asn Phe Glu
 325 330 335
 Pro Asp Asp Leu Ser Arg Val Ala Arg Phe Trp Gly Thr Glu Arg Leu
 340 345 350
 Ala Gln Thr Pro Gly Leu Met Ala Val Glu Leu Phe Asp Ala Ile Ala
 355 360 365
 Arg Gly Glu Val Lys Ala Val Trp Ile Met Gly Thr Asn Pro Ala Val
 370 375 380
 Ser Leu Pro Asp Ser His Ala Val Cys Gln Ala Leu Ala Ala Cys Pro
 385 390 395 400
 Leu Val Val Val Ser Glu Val Met Gln Glu Thr Asp Thr Ser Arg Phe
 405 410 415
 Ala His Ile Arg Phe Pro Ala Leu Gly Trp Gly Glu Lys Asn Gly Thr
 420 425 430
 Val Thr Asn Ser Glu Arg Arg Ile Ser Arg Gln Arg Ala Phe Leu Pro
 435 440 445
 Ala Pro Gly Glu Ala Arg Pro Asp Trp Trp Ile Ile Ala Arg Met Ala
 450 455 460
 Asp Gln Leu Gly Tyr Gly Asp Ala Phe Ala Trp Lys His Pro Gln Glu
 465 470 475 480
 Ile Phe Cys Glu His Ala Ala Leu Thr Ala Phe Glu Asn Asn Gly Glu
 485 490 495
 Arg Ala Leu Asn Leu Arg Glu Leu Ala Ser Leu Ser Arg Glu Ala Trp
 500 505 510
 Asp Ala Leu Ala Pro Tyr Gln Trp His Ala Gly Asp Phe Pro Gln Arg
 515 520 525
 Asn Leu Val Pro Val Asp Pro Ser Ser His Gly Ala Gly Val Asp Glu
 530 535 540
 Leu Tyr Pro Leu Ile Leu Asn Thr Gly Arg Ile Arg Asp Gln Trp His
 545 550 555 560
 Thr Met Thr Arg Thr Gly Tyr Val Pro Arg Leu Met Gln His Ile Asp
 565 570 575
 Glu Pro Phe Val Glu Met Asn Ala Thr Asp Ala Ala Arg Ala Gly Leu
 580 585 590
 Thr Asp Gly Gln Leu Ala Arg Val Ser Ser Pro Arg Gly Val Met Val
 595 600 605
 Ala Arg Val Arg Ile Ser Thr Ala Gln Arg Ala Gly Glu Leu Phe Thr
 610 615 620
 Pro Met His Trp Asn Ala Gln Phe Ala Arg Gln Gly Lys Val Asn Ala
 625 630 635 640
 Leu Val Glu Gly Arg Val Asp Ala Gly Ser Gly Gln Pro Glu Ser Lys
 645 650 655
 Gln Thr Ala Val Lys Ile Leu Pro Trp Leu Pro Ala Trp Gln Gly Glu
 660 665 670
 Leu Tyr Ala Arg Asp Leu Pro Ala Leu Pro Pro Ser Val Cys Trp Trp
 675 680 685
 Arg Lys Ala Ser Arg Leu Thr Val Ala Gly Glu Gln Pro Leu Leu Ser
 690 695 700
 Trp Val Met Ala Tyr Ala Ser Gly Arg Gly Trp Gln Leu Gln Val Ala
 705 710 715 720
 Gln Thr Gly Glu Arg Asn Ser Val Leu Ala Trp His His Gly Glu Leu
 725 730 735
 Met Leu Gly Tyr Trp Glu Gly His Thr Leu Pro Ala Leu Ala His Ala
 740 745 750
 Phe Ile Glu Glu Ala Phe Ala Ala Ala Pro Val Gln Leu Ala Glu Arg

755 760 765
 His Ala Leu Leu His Gly Gln Arg Pro Gly Glu Asp Ala Asp His Gly
 770 775 780
 Arg Ile Ile Cys Ser Cys Phe Ser Val Gly Glu Asn Thr Ile Arg Lys
 785 790 795 800
 Ala Ile Ala Gly Gly Cys Asp Ser Ala Val Ala Leu Gly Val Lys Leu
 805 810 815
 Arg Cys Gly Thr Asn Cys Gly Ser Cys Val Pro Glu Leu Lys Ala Leu
 820 825 830
 Leu Gly
 835

<210> 8682

<211> 473

<212> PRT

<213> Enterobacter cloacae

<400> 8682

Leu Thr Thr Leu Lys Ala Val Ser Ser Arg Ile Arg Phe Leu Leu Leu
 1 5 10 15
 Leu Pro Leu Phe Thr Ala Gly Ala Val His Gly Ala Pro Lys Ser Phe
 20 25 30
 Val Gln Gln Ala Gln Asn Pro Phe Asp Asn Asn Gly Asp Ser Leu Pro
 35 40 45
 Asp Leu Gly Met Ala Gln Pro Thr Thr Glu Gly Glu Lys His Leu Ala
 50 55 60
 Glu Met Ala Lys Ala Phe Gly Glu Ala Ser Met Thr Asp Asn Gly Leu
 65 70 75 80
 Thr Ala Gly Gln Gln Ala Arg Gln Phe Ala Phe Gly Lys Val Arg Asp
 85 90 95
 Ala Val Ser Gly Glu Val Asn Glu Gln Ile Glu Ser Trp Leu Ser Pro
 100 105 110
 Trp Gly Asn Ala Ser Val Asn Val Leu Val Asp Asp Asp Gly Asn Phe
 115 120 125
 Asn Gly Ser Ser Gly Ser Trp Phe Ile Pro Trp Asn Asp Asn Thr Arg
 130 135 140
 Tyr Leu Ser Trp Ser Gln Leu Gly Leu Thr Gln Gln Thr Asp Gly Leu
 145 150 155 160
 Val Ser Asn Val Gly Ile Gly Gln Arg Trp Val Ala Gly Asn Trp Leu
 165 170 175
 Leu Gly Tyr Asn Thr Phe Tyr Asp Asn Leu Leu Glu Asp Asn Leu Gln
 180 185 190
 Arg Ala Gly Leu Gly Ala Glu Ala Trp Gly Glu Asn Leu Arg Leu Ser
 195 200 205
 Ala Asn Tyr Tyr Gln Pro Phe Ala Gly Trp Gln Pro Arg Ser Asp Ile
 210 215 220
 Arg Glu Gln Arg Met Ala Arg Gly Tyr Asp Val Thr Ala Lys Ala Trp
 225 230 235
 Leu Pro Trp Phe His His Leu Asn Thr Ser Val Ser Phe Glu Gln Tyr
 245 250 255
 Phe Gly Asp Asn Val Asp Leu Phe Asn Ser Gly Thr Gly Tyr His Asn
 260 265 270
 Pro Val Ala Val Asn Leu Gly Leu Asn Tyr Thr Pro Val Pro Leu Val
 275 280 285
 Thr Leu Thr Ala Ala His Lys Gln Gly Glu Ser Gly Val Ser Gln Asn
 290 295 300
 Asn Leu Gly Leu Lys Leu Asn Tyr Arg Phe Gly Val Pro Leu Ala Lys
 305 310 315 320
 Gln Leu Ser Ala Gly Glu Val Ala Ala Thr Arg Ser Leu Arg Gly Ser
 325 330 335
 Arg Tyr Asp Ser Pro Asp Arg Asp Asn Leu Pro Val Met Glu Phe Arg

340 345 350
 Gln Arg Lys Thr Leu Ser Val Tyr Leu Ala Thr Pro Pro Trp Asp Leu
 355 360 365
 Lys Pro Gly Glu Thr Val Met Leu Lys Leu Gln Ile Arg Ser Thr His
 370 375 380
 Gly Ile Arg Gln Ile His Trp Leu Gly Asp Thr Gln Ala Leu Ser Leu
 385 390 395 400
 Thr Ser Pro Ala Asn Gly Asn Ser Ser Asp Gly Trp Ser Val Ile Met
 405 410 415
 Pro Ala Trp Asp Asp Ser Glu Gly Ala Lys Asn Thr Trp Arg Leu Thr
 420 425 430
 Ala Val Val Glu Asp Lys Asp Gly Gln Arg Val Ser Ser Asn Glu Ile
 435 440 445
 Thr Leu Ser Val Val Gln Pro Leu Val Ala Met Pro Ala Asp Asp Pro
 450 455 460
 Arg Trp Lys Leu Leu Pro Asp Glu
 465 470

<210> 8683

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 8683

Cys Val Leu Leu Thr Leu Leu Thr Leu Val Leu Leu Pro Leu Asn Met
 1 5 10 15
 Thr Leu Leu Ala Leu Gly Ile Asn His Lys Thr Ala Pro Val Ser Leu
 20 25 30
 Arg Glu Arg Val Thr Phe Ser Pro Asp Thr Leu Asp Leu Ala Leu Asp
 35 40 45
 Ser Leu Leu Ala Gln Pro Met Val Gln Gly Gly Val Val Leu Ser Thr
 50 55 60
 Cys Asn Arg Thr Glu Leu Tyr Leu Ser Val Glu Glu Gln Asp Asn Leu
 65 70 75 80
 His Glu Ala Leu Ile Arg Trp Leu Cys Asp Tyr His Asn Leu Asn Glu
 85 90 95
 Glu Glu Leu Arg Asn Ser Leu Tyr Trp His Gln Asp Asn Asp Ala Val
 100 105 110
 Ser His Leu Met Arg Val Ala Ser Gly Leu Asp Ser Leu Val Leu Gly
 115 120 125
 Glu Pro Gln Ile Leu Gly Gln Val Lys Lys Ala Phe Ala Asp Ser Gln
 130 135 140
 Lys Gly His Leu Lys Ala Ser Glu Leu Glu Arg Met Phe Gln Lys Ser
 145 150 155 160
 Phe Ser Val Ala Lys Arg Val Arg Thr Glu Thr Asp Ile Gly Ala Ser
 165 170 175
 Ala Val Ser Val Ala Phe Ala Ala Cys Thr Leu Ala Arg Gln Ile Phe
 180 185 190
 Glu Ser Leu Ser Thr Val Thr Val Leu Leu Val Gly Ala Gly Glu Thr
 195 200 205
 Ile Glu Leu Val Ala Arg His Leu Arg Glu His Lys Val Lys Lys Met
 210 215 220
 Ile Ile Ala Asn Arg Thr Arg Glu Arg Ala Gln Val Leu Ala Asp Glu
 225 230 235 240
 Val Gly Ala Glu Val Ile Ala Leu Ser Asp Ile Asp Glu Arg Leu Lys
 245 250 255
 Glu Ala Asp Ile Ile Ile Ser Ser Thr Ala Ser Pro Leu Pro Ile Ile
 260 265 270
 Gly Lys Gly Met Val Glu Arg Ala Leu Lys Ser Arg Arg Asn Gln Pro
 275 280 285
 Met Leu Leu Val Asp Ile Ala Val Pro Arg Asp Val Glu Pro Glu Val

```

      290              295              300
Gly Lys Leu Ala Asn Ala Tyr Leu Tyr Ser Val Asp Asp Leu Gln Ser
305              310              315              320
Ile Ile Ser His Asn Leu Ala Gln Arg Lys Ala Ala Ala Val Gln Ala
      325              330              335
Glu Thr Ile Val Glu Gln Glu Thr Ser Glu Phe Met Ala Trp Leu Arg
      340              345              350
Ala Gln Ser Val Ser Glu Thr Ile Arg Glu Tyr Arg Gly Gln Ala Glu
      355              360              365
Gln Val Arg Asp Asp Leu Thr Ala Lys Ala Leu Ala Ala Leu Glu Gln
      370              375              380
Gly Gly Asp Ala Gln Ala Ile Met Gln Asp Leu Ala Trp Lys Leu Thr
385              390              395              400
Asn Arg Leu Ile His Ala Pro Thr Lys Ser Leu Gln Gln Ala Ala Arg
      405              410              415
Asp Gly Asp Asp Glu Arg Leu Thr Ile Leu Arg Asn Ser Leu Gly Leu
      420              425              430
Glu

```

<210> 8684

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 8684

```

Thr Ser Asp Ala Gly Ala Ala Val Met Ser Leu Phe Thr Leu Leu Ile
1              5              10              15
Ser Val His Leu Val Ser Val Ala Leu Thr Ile Gly Phe Phe Ile Ala
      20              25              30
Arg Tyr Trp Trp Arg Tyr Asn Asn Asn Pro Leu Ile Asn Ala Arg Trp
      35              40              45
Val Arg Ile Ala Pro His Cys Ile Asp Thr Val Leu Phe Leu Ser Gly
      50              55              60
Ala Gly Leu Met Trp Lys Thr Gly Tyr Leu Pro Phe Thr Asp Lys Gly
      65              70              75              80
Ala Trp Leu Thr Glu Lys Leu Phe Gly Val Ile Ile Tyr Ile Val Leu
      85              90              95
Gly Phe Ile Ala Leu Gly Arg His Arg Pro Arg Ser Gln Gln Thr Gly
      100              105              110
Phe Ile Ala Phe Leu Leu Gly Leu Val Val Leu Tyr Ile Ile Ile Lys
      115              120              125
Leu Ala Thr Thr Arg Ile Pro Leu Leu Gly
      130              135

```

<210> 8685

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 8685

```

Val Met Arg Ser Leu Ala Asp Phe Glu Phe Asn Lys Val Pro Leu Cys
1              5              10              15
Asp Gly Met Ile Leu Ile Ser Glu Met Ile Arg Asp Asp Phe Thr Ser
      20              25              30
Gln Tyr Val Tyr Ala Glu Leu Glu Asn Leu Val Ser Leu Ala Arg Glu
      35              40              45
Glu Ile Asn Gln Ala Arg Pro Gln Asp Trp Gln Leu Glu Lys Leu Ile
      50              55              60
Glu Leu Phe Tyr Gly Glu Trp Gly Phe Cys Asp Thr Arg Gly Val Tyr
      65              70              75              80

```


Arg Leu Ser Asp Ala Leu Trp Leu Asp Gln Val Leu Lys Asn Arg Gln
 85 90 95
 Gly Ser Ala Val Ala Leu Gly Ala Ile Leu Leu Trp Val Ala His Glu
 100 105 110
 Leu Glu Ile Pro Leu Val Pro Val Ile Phe Pro Thr Gln Met Ile Leu
 115 120 125
 Arg Ala Glu Trp Leu Asp Gly Glu Met Trp Leu Ile Asn Pro Phe Asn
 130 135 140
 Gly Asp Thr Leu Asp Glu His Thr Leu Asp Val Trp Leu Lys Gly Asn
 145 150 155 160
 Ile Ser Pro Ile Ala Glu Leu Phe Asn Glu Asp Leu Asp Glu Ala Asp
 165 170 175
 Asn Ala Glu Val Ile Arg Lys Leu Leu Asp Thr Leu Lys Ser Ala Leu
 180 185 190
 Met Glu Glu Arg Gln Met Glu Leu Ala Leu Arg Ala Ser Glu Val Leu
 195 200 205
 Leu Gln Phe Asn Pro Glu Asp Pro Tyr Glu Ile Arg Asp Arg Gly Leu
 210 215 220
 Ile Tyr Ala Gln Leu Asp Cys Glu His Val Ala Leu Asn Asp Leu Asn
 225 230 235 240
 Tyr Phe Val Glu Gln Cys Pro Glu Asp Pro Ile Ser Glu Met Ile Arg
 245 250 255
 Ala Gln Ile Asn Ala Ile Ala His Lys His Ile Thr Leu His
 260 265 270

<210> 8686

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 8686

Gly Asp Pro Met Lys Gln Lys Val Val Ser Ile Gly Asp Ile Asn Val
 1 5 10 15
 Ala Asn Asp Leu Pro Phe Val Leu Phe Gly Gly Met Asn Val Leu Glu
 20 25 30
 Ser Arg Asp Leu Ala Met Arg Ile Cys Glu His Tyr Val Thr Val Thr
 35 40 45
 Gln Lys Leu Gly Ile Pro Tyr Val Phe Lys Ala Ser Phe Asp Lys Ala
 50 55 60
 Asn Arg Ser Ser Ile His Ser Tyr Arg Gly Pro Gly Leu Glu Glu Gly
 65 70 75 80
 Met Lys Ile Phe Gln Glu Leu Lys Gln Thr Phe Gly Val Lys Val Ile
 85 90 95
 Thr Asp Val His Glu Ala Ser Gln Ala Gln Pro Val Ala Asp Val Val
 100 105 110
 Asp Val Ile Gln Leu Pro Ala Phe Leu Ala Arg Gln Thr Asp Leu Val
 115 120 125
 Glu Ala Met Ala Lys Thr Gly Ala Val Ile Asn Val Lys Lys Pro Gln
 130 135 140
 Phe Val Ser Pro Gly Gln Met Gly Asn Ile Val Asp Lys Phe Ile Glu
 145 150 155 160
 Gly Gly Asn Asp Gln Val Ile Leu Cys Asp Arg Gly Ser Asn Phe Gly
 165 170 175
 Tyr Asp Asn Leu Val Val Asp Met Leu Gly Phe Ser Val Met Lys Asn
 180 185 190
 Val Ser Asn Gln Ser Pro Val Ile Phe Asp Val Thr His Ser Leu Gln
 195 200 205
 Cys Arg Asp Pro Phe Gly Ala Ala Ser Gly Gly Arg Arg Ala Gln Val
 210 215 220
 Thr Glu Leu Ala Arg Ala Gly Met Ala Thr Gly Leu Ala Gly Leu Phe
 225 230 235 240

Ile Glu Ala His Pro Asp Pro Ala Asn Ala Lys Cys Asp Gly Pro Ser
 245 250 255
 Ala Leu Pro Leu Asp Lys Leu Glu Pro Phe Leu Lys Gln Ile Lys Ala
 260 265 270
 Ile Asp Asp Leu Val Lys Ser Phe Asp Glu Leu Asp Thr Ser Asn
 275 280 285

<210> 8687

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 8687

Arg Gly Leu Ser Met Gln His Leu Gln Asn Thr Lys Pro Gln Glu Thr
 1 5 10 15
 Ser Glu Ser Gly Glu Val Ile Val Leu Pro Pro Leu Gln Val Arg Arg
 20 25 30
 Arg Ala Pro Ala Phe Thr Arg Arg Met Asn Asp Phe Leu Gln Arg Val
 35 40 45
 Ile Pro Ala Leu Leu Gly Leu Gly Leu Leu Val Val Leu Trp Gln Leu
 50 55 60
 Ala Ala Ile Asn Ser Lys Gly Phe Pro Thr Pro Leu Ser Thr Leu Asp
 65 70 75 80
 Ser Ala Met Thr Leu Phe Ala Asp Pro Phe Tyr Arg Asp Gly Pro Asn
 85 90 95
 Asp Met Gly Ile Gly Trp Asn Val Leu Ala Ser Leu Gln Arg Val Ala
 100 105 110
 Ile Gly Phe Gly Leu Ala Ala Leu Ala Gly Ile Pro Leu Gly Phe Leu
 115 120 125
 Ile Gly Arg Phe Thr Phe Phe Ser Arg Met Phe Asn Pro Leu Ile Ala
 130 135 140
 Leu Leu Arg Pro Val Ser Pro Leu Ala Trp Leu Pro Ile Gly Leu Leu
 145 150 155 160
 Leu Phe Gln Lys Ala Glu Pro Ala Ser Ser Trp Thr Ile Phe Ile Cys
 165 170 175
 Ser Ile Trp Pro Met Val Ile Asn Thr Ala Glu Gly Val Arg Cys Ile
 180 185 190
 Pro Gln Asp Tyr Leu Asn Val Ala Arg Val Leu Gln Leu Ser Glu Trp
 195 200 205
 Thr Ile Met Arg Arg Ile Leu Phe Pro Ala Val Leu Pro Ala Val Leu
 210 215 220
 Thr Gly Val Arg Leu Ser Ile Gly Ile Ala Trp Leu Val Ile Val Ala
 225 230 235 240
 Ala Glu Met Leu Thr Gly Gly Leu Gly Ile Gly Phe Trp Ile Trp Asn
 245 250 255
 Glu Trp Asn Asn Leu Asn Val Glu Asn Ile Leu Ile Ala Ile Val Ile
 260 265 270
 Ile Gly Val Val Gly Leu Leu Leu Glu Gln Gly Leu Met Leu Ile Ala
 275 280 285
 Arg Arg Phe Ser Trp Gln Glu Lys
 290 295

<210> 8688

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 8688

Gly Val Lys Met Lys Pro Leu Ile Gln Val Gln Ala Val Ser Gln Arg
 1 5 10 15
 Phe Ser Thr Ala Ser Gly Glu Phe Leu Ala Leu Gln Asn Val Ser Phe

```

      20      25      30
Asp Ile His Glu Gly Glu Thr Val Ser Leu Ile Gly His Ser Gly Cys
      35      40      45
Gly Lys Ser Thr Leu Leu Asn Leu Ile Ala Gly Ile Thr Leu Pro Thr
      50      55      60
Glu Gly Gly Leu Ile Cys Asp Asn Arg Glu Ile Ala Gly Pro Gly Pro
      65      70      75      80
Glu Arg Ala Val Val Phe Gln Asn His Ser Leu Leu Pro Trp Leu Thr
      85      90      95
Cys Phe Asp Asn Val Ala Leu Ala Val Asp Gln Val Phe Arg His Thr
      100      105      110
Met Ser Lys Ala Glu Arg Lys Ala Trp Ile Glu His Asn Leu Asp Arg
      115      120      125
Val Gln Met Gly His Ala Leu His Lys His Pro Gly Glu Ile Ser Gly
      130      135      140
Gly Met Lys Gln Arg Val Gly Ile Ala Arg Ala Leu Ala Met Lys Pro
      145      150      155      160
Lys Val Leu Leu Met Asp Glu Pro Phe Gly Ala Leu Asp Ala Leu Thr
      165      170      175
Arg Ala His Leu Gln Asp Ser Val Met Gln Ile Gln Gln Ala Leu Asn
      180      185      190
Thr Thr Ile Val Leu Ile Thr His Asp Val Asp Glu Ala Val Leu Leu
      195      200      205
Ser Asp Arg Val Leu Met Met Thr Asn Gly Pro Ala Ala Thr Val Gly
      210      215      220
Glu Ile Leu Arg Val Asp Leu Pro Arg Pro Arg Asn Arg Val Gln Leu
      225      230      235      240
Ala Asp Asp Ser Arg Tyr His His Met Arg Gln Gln Ile Leu His Phe
      245      250      255
Leu Tyr Glu Lys Gln Pro Lys Ala Ala
      260      265

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<210> 8689

<211> 1332

<212> PRT

<213> Enterobacter cloacae

<400> 8689

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Gly Gly Thr Met Arg Leu Val Ile Ile Gly Asn Gly Met Ala Ala Thr
1      5      10
Arg Leu Ile Ala Ser Leu Thr Gly Arg Val Pro Gly Arg Phe Ala Val
      20      25      30
Thr Val Ile Gly Asp Glu Pro Glu Gln Ala Tyr Asn Arg Ile Gln Leu
      35      40      45
Ser Pro Val Leu Gly Gly Glu Lys Gln Ala Glu His Ile Cys Leu His
      50      55      60
Asp Glu Asp Trp Tyr Thr Ala Arg Gly Val Thr Val Leu Arg Gly Glu
      65      70      75      80
Thr Ala Leu Ala Val Asp Val Asn Ala Arg Glu Val His Thr Ser Ala
      85      90      95
Cys Thr Leu Gly Trp Asp Ala Leu Val Phe Ala Thr Gly Ser Thr Pro
      100      105      110
Val Val Pro Pro Ile Pro Gly Gly Asp Ala Pro His Val Phe Thr Phe
      115      120      125
Arg Thr Leu Ala Glu Thr Arg Ala Ile Gln Asn Ile Ser Gly Pro Ala
      130      135      140
Val Val Leu Gly Gly Gly Val Leu Gly Val Glu Ala Ala Ala Leu
      145      150      155      160
Ala Arg Lys Gly Asp Asn Val Thr Leu Val His Arg Gly Pro Trp Leu
      165      170      175
Met Glu Gln Gln Leu Asp Gln Gln Ala Gly Leu Leu Leu Glu Glu Ala

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180	185	190
Leu Ala Ala Arg Gly Val Ser Cys Glu Leu Ala Ser Gly Ile Thr Ala		
195	200	205
Ile Ala Asp Asp Ala Val Thr Ser Leu Asp Gly Arg Ile Ala Ala		
210	215	220
Thr Arg Val Val Leu Ala Thr Gly Val Gln Pro Asn Val Ala Leu Ala		
225	230	235
Asn Ala Ser Gly Ile Arg Cys Ala Arg Gly Ile Val Val Asp Gln Gln		
245	250	255
Met Gln Thr Ser Val Pro Gly Ile Tyr Ala Ile Gly Glu Cys Cys Glu		
260	265	270
Ile Asp Gly Gln Thr Phe Gly Leu Val Ala Pro Cys Leu Ala Gln Ala		
275	280	285
Asp Ile Leu Ala Ala Arg Leu Ala Gly Glu Val Thr Ala Pro Phe Thr		
290	295	300
Leu Thr Asp Asn Gly Val Arg Leu Lys Val Thr Gly Val Glu Leu Phe		
305	310	315
Ser Leu Gly Arg Ala Thr Ala Gln Ala Asp Asp Val Val Trp Ser Ser		
325	330	335
Trp Asp Pro Leu Thr Arg His Tyr Arg Arg Leu Leu Ile His Gln Gly		
340	345	350
Ala Leu Ala Gly Val Leu Leu Leu Gly Asp Cys Arg Ser Ala Ala Thr		
355	360	365
Phe Thr Asp Leu Leu Ala Thr Ala Ala Pro Ala His Ala Asp Trp Leu		
370	375	380
Phe Asp Arg Phe Thr Thr Gln Pro Gln Val Ala Gly Gln Asn Ala Met		
385	390	395
Thr Lys Pro Thr Leu Val Val Val Gly His Gly Met Val Gly His His		
405	410	415
Phe Leu Glu Asp Cys Val Asn Arg Asn Leu His Gln Gln Tyr Gln Ile		
420	425	430
Ile Val Phe Gly Glu Glu Arg Tyr Ala Ala Tyr Asp Arg Val His Leu		
435	440	445
Ser Glu Tyr Phe Gly Gly Arg Ser Ala Asp Ser Leu Ser Leu Val Ala		
450	455	460
Gly Glu Phe Phe Ala Asp Asn Gly Ile Glu Leu Arg Leu Ser Gln Gln		
465	470	475
Ile Val Ala Ile Asp Arg Asp Ala His Val Val Arg Thr Ala Ser Gly		
485	490	495
His Glu Thr His Trp Asp Lys Leu Val Leu Ala Thr Gly Ser Tyr Pro		
500	505	510
Phe Val Pro Pro Val Pro Gly Asn Asp Leu Pro Gly Cys Phe Val Tyr		
515	520	525
Arg Thr Leu Asp Asp Leu Asp Asn Ile Thr Ala His Ala Ala Gly Ser		
530	535	540
Arg Arg Gly Val Val Ile Gly Gly Gly Leu Leu Gly Leu Glu Ala Ala		
545	550	555
Asn Ala Leu Lys Gln Leu Gly Leu Glu Thr His Val Val Glu Phe Ala		
565	570	575
Pro Asn Leu Met Ala Val Gln Leu Asp Ser Asp Gly Ala Ala Met Leu		
580	585	590
Arg Lys Lys Ile Glu Ala Leu Gly Val Gly Val His Thr Ser Lys Ser		
595	600	605
Thr Thr Glu Ile Ala Thr Ala Asp Asp Gly Leu Val Leu Arg Phe Ala		
610	615	620
Asp Gly Glu Gln Leu Glu Thr Asp Met Val Val Phe Ser Ala Gly Ile		
625	630	635
Arg Pro Gln Asp Ala Leu Ala Arg Ser Ser Gly Leu Val Ile Gly Glu		
645	650	655
Arg Gly Gly Ile Cys Ile Asp Asp Gly Cys Arg Thr Ser Asp Pro Asp		
660	665	670

Val Leu Ala Ile Gly Glu Cys Ala Leu Trp Glu Gly Lys Ile Phe Gly
 675 680 685
 Leu Val Ala Pro Gly Tyr Gln Met Ala Arg Val Ala Ala Val Leu
 690 695 700
 Ala Gly Glu Glu Lys Arg Phe Thr Gly Ala Asp Met Ser Thr Lys Leu
 705 710 715 720
 Lys Leu Leu Gly Val Asp Val Ala Ser Phe Gly Asp Ala His Gly Arg
 725 730 735
 Thr Pro Gly Ala Leu Ser Tyr Gln Trp Thr His Gly Pro Gln Gln Ile
 740 745 750
 Tyr Lys Lys Ile Val Val Ser His Asp Ser Lys Thr Leu Leu Gly Gly
 755 760 765
 Val Leu Val Gly Asp Ala Ser Glu Tyr Ala Thr Leu Val Gln Met Met
 770 775 780
 Leu Asn Gly Ile Ser Leu Pro Lys Glu Pro Glu Thr Leu Ile Leu Pro
 785 790 795 800
 Val Ser Ser Gly Ser Ala Pro Lys Ala Leu Gly Val Ala Ala Leu Pro
 805 810 815
 Glu Ser Ala Gln Ile Cys Ser Cys His Asn Val Ser Lys Gly Asp Ile
 820 825 830
 Cys Gln Ala Val Ser Ala Gly Ala Thr Asp Ile Gly Ala Ile Lys Gln
 835 840 845
 Cys Thr Lys Ala Ala Thr Gly Cys Gly Gly Cys Ser Ala Leu Val Lys
 850 855 860
 Gln Val Met Glu Phe Gln Leu Ala Glu Gln Gly Val Glu Val Lys Lys
 865 870 875 880
 Asp Ile Cys Glu His Phe Pro Tyr Ser Arg Gln Glu Ile Tyr His Leu
 885 890 895
 Val Arg Val Asn His Ile Arg Thr Phe Asp Gln Leu Ile Ser Arg Tyr
 900 905 910
 Gly Gln Gly His Gly Cys Glu Ile Cys Lys Pro Leu Val Gly Ser Val
 915 920 925
 Leu Ala Ser Cys Trp Asn Glu Tyr Leu Leu Lys Pro Ala His Leu Pro
 930 935 940
 Leu Gln Asp Thr Asn Asp Arg Phe Phe Ala Asn Ile Gln Lys Asp Gly
 945 950 955 960
 Thr Tyr Ser Ile Val Pro Arg Met Pro Ala Gly Glu Val Thr Ala Asp
 965 970 975
 Gly Leu Ile Ala Ile Gly Gln Ile Ala Lys Arg Tyr Ser Leu Tyr Ser
 980 985 990
 Lys Ile Thr Gly Gly Gln Arg Ile Asp Leu Phe Gly Ala Thr Leu Glu
 995 1000 1005
 Gln Leu Pro Glu Ile Trp Gln Ala Leu Val Glu Ala Gly Phe Glu Thr
 1010 1015 1020
 Gly His Ala Tyr Gly Lys Ser Leu Arg Thr Val Lys Ser Cys Val Gly
 1025 1030 1035 1040
 Ser Thr Trp Cys Arg Tyr Gly Val Gln Asp Ser Thr Gly Leu Ala Val
 1045 1050 1055
 Arg Leu Glu His Arg Tyr Lys Gly Leu Arg Ala Pro His Lys Ile Lys
 1060 1065 1070
 Met Ala Val Ser Gly Cys Thr Arg Glu Cys Ala Glu Ala Gln Ser Lys
 1075 1080 1085
 Asp Val Gly Val Ile Ala Thr Asp Lys Gly Trp Asn Leu Tyr Leu Cys
 1090 1095 1100
 Gly Asn Gly Gly Met Lys Pro Arg His Ala Asp Leu Phe Ala Ser Asp
 1105 1110 1115 1120
 Leu Asp Asp Glu Thr Leu Ile Arg Thr Ile Asp Arg Phe Leu Met Phe
 1125 1130 1135
 Tyr Ile Arg Thr Ala Asp Arg Leu Gln Arg Thr Ser Thr Trp Met Asp
 1140 1145 1150
 Asn Leu Glu Gly Gly Leu Asp Tyr Leu Arg Glu Val Ile Leu Asn Asp

1155 1160 1165
 Ser Leu Gly Ile Ala His Glu Leu Glu Gln Glu Met Ala Arg Val Met
 1170 1175 1180
 Glu Thr Tyr Gln Cys Glu Trp Gln Thr Thr Leu Asn Asp Pro Asp Arg
 1185 1190 1195 1200
 Leu Ala Leu Phe Arg Thr Ala Val Asn Val Pro Ala Ala Glu Glu Asn
 1205 1210 1215
 Lys Arg Trp Gln Glu Ile Cys Asn Ile Asp Glu Ile Pro Glu Gln Ala
 1220 1225 1230
 Gly Ile Gly Ala His Leu Gly Arg Lys Pro Ile Ala Leu Phe Arg Phe
 1235 1240 1245
 Gly Lys Asn Val Tyr Ala Leu Asp Asp Arg Glu Pro Gly Ser Arg Ala
 1250 1255 1260
 Asn Val Leu Ser Arg Gly Ile Leu Gly Asp Ala Ala Gly Glu Pro Val
 1265 1270 1275 1280
 Val Ile Ser Pro Leu Tyr Lys Gln Arg Ile Arg Leu Arg Asp Gly Cys
 1285 1290 1295
 Gln Val Glu Asn Gly Glu Pro Val Val Arg Ala Trp Pro Val Lys Ile
 1300 1305 1310
 Glu Asn Gly Lys Val Trp Val Gly Asn Glu Glu Leu Val Met Arg Ala
 1315 1320 1325
 Glu Ala Ser
 1330

<210> 8690
 <211> 194
 <212> PRT
 <213> Enterobacter cloacae

<400> 8690
 Glu Ile Met Arg Tyr Leu Ser Lys Asp Glu Arg Arg Glu Glu Ile Leu
 1 5 10 15
 Gln Ala Ala Met Arg Val Ala Leu Thr Glu Gly Phe Ala Ala Met Thr
 20 25 30
 Val Arg Arg Ile Ala Thr Glu Ala Gly Val Ala Thr Gly Gln Leu His
 35 40 45
 His His Phe Ala Ser Ala Gly Glu Leu Lys Ser Leu Ala Phe Val Arg
 50 55 60
 Leu Ile Arg Asp Leu Leu Asp Ala Glu Ile Val Gly Glu Asn Ala Gly
 65 70 75 80
 Trp Arg Glu Arg Leu His Ala Met Leu Gly Ser Asp Asp Gly Gly Phe
 85 90 95
 Glu Pro Tyr Ile Arg Leu Trp Arg Glu Ala Gln Ile Leu Ala Ser Arg
 100 105 110
 Asp Ser Asp Ile Lys Gly Ala Tyr Val Leu Thr Met Glu Met Trp His
 115 120 125
 Gln Glu Thr Val Ala Ile Ile Arg Ala Gly Ala Glu Ala Asn Ala Phe
 130 135 140
 Thr Leu Ala Asp Gln Pro Glu Asn Ile Ala Trp Arg Leu Ile Gly Leu
 145 150 155 160
 Val Cys Gly Leu Asp Gly Ile Tyr Val Leu Asn Met Pro Glu Met Asp
 165 170 175
 Asp Ala Ala Phe Asn Lys His Leu Asp Lys Leu Ile Ser Leu Glu Leu
 180 185 190
 Phe

<210> 8691
 <211> 306
 <212> PRT
 <213> Enterobacter cloacae

<400> 8691

Arg Asp Val Pro Leu Ser Gly Asp Cys Gln Leu Arg Arg Pro Leu Arg
 1 5 10 15
 Asp Pro His Gln Pro Pro Arg Asn Gly Thr Arg Arg Phe Pro Gly Gly
 20 25 30
 Lys Arg Leu Arg Leu His Leu Arg Arg Arg Leu Ser Arg Leu Arg His
 35 40 45
 Lys Ile Gln Pro Leu Gln Gln Gln Pro His Arg Arg Asp Gln His His
 50 55 60
 Arg Ser Ala Arg Ser Arg Gly Gly Arg Val Met Gln Ile Leu Lys Ile
 65 70 75 80
 Ile Ala Leu Leu Ile Glu Tyr Pro Asp Glu Leu Leu Trp Glu Asn Arg
 85 90 95
 Asp Glu Ala Leu Ser Leu Val Glu Gln Asp Ala Pro Met Leu Leu Pro
 100 105 110
 Phe Ala Gln Gln His Leu Ser Ala Pro Leu Leu Asp Lys Gln Ala Glu
 115 120 125
 Trp Cys Glu Val Phe Glu Arg Gly Arg Ala Thr Ser Leu Leu Leu Phe
 130 135 140
 Glu His Val His Ala Glu Ser Arg Asp Arg Gly Gln Ala Met Val Asp
 145 150 155 160
 Leu Met Ser Gln Tyr Glu Lys Ala Gly Leu Glu Leu Asp Cys Arg Glu
 165 170 175
 Leu Pro Asp Tyr Leu Pro Leu Tyr Leu Glu Tyr Leu Ser Ile Val Ser
 180 185 190
 Asp Asp Glu Ala Arg Glu Gly Leu Gln Asn Val Ala Pro Ile Leu Ala
 195 200 205
 Leu Ile Gly Gly Arg Leu Lys Gln Arg Glu Val Ala His Tyr Gln Leu
 210 215 220
 Phe Asp Ala Leu Leu Ser Leu Ala Glu Thr Arg Leu Ser Ser Asp Ser
 225 230 235 240
 Val Ala Lys Gln Val Ser Gly Glu Lys Arg Asp Asp Thr Arg Gln Ala
 245 250 255
 Leu Asp Ala Val Trp Glu Glu Glu Gln Val Lys Phe Ile Glu Asp Asn
 260 265 270
 Ala Thr Ser Cys Asp Ser Ser Pro Met Gln Gln Tyr Gln Arg Arg Phe
 275 280 285
 Ser Gln Asp Val Ala Pro Gln Tyr Val Asp Val Ser Ala Gly Gly Pro
 290 295 300
 Lys
 305

<210> 8692

<211> 255

<212> PRT

<213> *Enterobacter cloacae*

<400> 8692

Met Gln Pro Pro Gln Gly Ile Asp Ile Asn Leu Tyr Gly Leu Leu Pro
 1 5 10 15
 Ala Arg Ala Gly Lys Ile Ser Thr Gln Lys Trp Gly His Asp Leu Leu
 20 25 30
 Gln Glu Val Ile Ser Pro Val Tyr Lys Leu Phe Ser Leu Leu His Met
 35 40 45
 Arg Lys Ser Ala Phe Ser Ser Tyr Ser Ser Cys Thr Arg Gly Asp Pro
 50 55 60
 Met Ser His Phe Arg Pro Val Glu Leu Arg His Ala Ser Arg Leu Leu
 65 70 75 80
 Asn His Gly Pro Thr Val Leu Ile Thr Ser Arg Asp Glu Thr Ile Asp
 85 90 95

```

Arg Arg Asn Val Met Ala Ala Ala Trp Ser Met Pro Val Glu Phe Glu
      100      105      110
Pro Pro Arg Ile Ala Ile Val Val Asp Lys Ser Ala Trp Ser Arg Glu
      115      120      125
Leu Ile Glu Arg Ser Gly Lys Phe Gly Ile Val Ile Pro Gly Val Ala
      130      135      140
Ala Ala Asn Trp Thr Trp Ala Val Gly Ser Val Ser Gly Arg Asp Glu
      145      150      155      160
Asp Lys Phe Asn Cys Tyr Gly Ile Pro Val Ile Tyr Gly Pro Glu Leu
      165      170      175
Asp Leu Pro Val Ile Glu Glu Lys Cys Leu Ala Trp Met Glu Cys Arg
      180      185      190
Leu Leu Pro Val Thr Ser Ala Ala Glu Lys Tyr Asp Thr Leu Phe Gly
      195      200      205
Glu Val Val Ser Ala Ala Ala Asp Glu Arg Ala Phe Val Ala Gly Arg
      210      215      220
Trp Gln Phe Asp Gly Asp Lys Leu Asn Thr Leu His His Met Gly Ala
      225      230      235      240
Gly Thr Phe Val Ala Ser Gly Lys Met Val Lys Ala Leu Glu
      245      250      255

```

<210> 8693

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 8693

```

Gly Ala Pro Val Ala Ser Val Ser Ile Ser Cys Pro Ser Cys Ser Ala
1      5      10      15
Thr Asp Gly Val Val Arg Asn Gly Lys Ser Thr Ala Gly His Gln Arg
      20      25      30
Tyr Leu Cys Ser His Cys Arg Lys Thr Trp Gln Leu Gln Phe Thr Tyr
      35      40      45
Thr Ala Ser Gln Pro Gly Thr His Gln Lys Ile Ile Asp Met Ala Met
      50      55      60
Asn Gly Val Gly Cys Arg Ala Thr Ala Arg Ile Met Gly Val Gly Leu
      65      70      75      80
Asn Thr Ile Phe Arg His Leu Lys Asn Ser Gly Arg Ser Arg
      85      90      95

```

<210> 8694

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 8694

```

Phe Arg Gly Leu Leu Ala Ala Ala Gly Arg Asp Ile Cys Ser Tyr Gly
1      5      10      15
Asp Gln Asp Leu Val Glu Tyr Val Asp Val Gly Ala Ser Tyr Tyr Phe
      20      25      30
Asn Lys Asn Met Ser Thr Tyr Val Asp Tyr Lys Ile Asn Leu Val Asp
      35      40      45
Asp Ser Gln Phe Thr Lys Asp Ala Lys Val Ala Thr Asp Asn Ile Val
      50      55      60
Ala Val Gly Leu Thr Tyr Gln Phe
      65      70

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<210> 8695

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 8695

His Pro Ile Ile Pro Thr Ser His Arg Lys Val Ser Phe Cys Phe Tyr
 1 5 10 15
 Leu Ile Phe Ser Leu His Leu Gly Lys Gln Glu Gly Asp Met Ser His
 20 25 30
 Gln Ser Glu Lys Ser Asn Gln His Leu Ser Asn Trp Lys Pro Glu
 35 40 45
 Asn Ala Gln Phe Trp Glu Asn Lys Gly Lys His Ile Ala Arg Arg Asn
 50 55 60
 Leu Trp Ile Ser Val Ala Cys Leu Leu Leu Ala Phe Cys Val Trp Met
 65 70 75 80
 Leu Phe Ser Ala Ile Ala Val Asn Leu Asn Lys Val Gly Phe Asn Phe
 85 90 95
 Ser Thr Asp Gln Leu Phe Met Leu Thr Ala Leu Pro Ser Leu Ser Gly
 100 105 110
 Ala Ile Leu Arg Val Pro Tyr Ser Phe Met Val Pro Ile Phe Gly Gly
 115 120 125
 Arg Tyr Trp Thr Val Leu Ser Thr Val Ile Leu Val Val Pro Cys Val
 130 135 140
 Trp Leu Gly Ile Ala Ile Gln Asn Thr Ala Thr Pro Tyr Trp Val Phe
 145 150 155 160
 Ile Ile Ile Ala Leu Leu Cys Gly Phe Ala Gly Ala Asn Phe Ala Ser
 165 170 175
 Ser Met Gly Asn Ile Ser Phe Phe Phe Pro Lys Ala Arg Gln Gly Ser
 180 185 190
 Ala Leu Gly Ile Asn Gly Gly Leu Gly Asn Leu Gly Val Ser Val Met
 195 200 205
 Gln Leu Val Ala Pro Leu Val Ile Phe Leu Pro Met Phe Thr Phe Leu
 210 215 220
 Gly Val His Gly Val Pro Gln Glu Asp Gly Ser Thr Met Trp Leu Ala
 225 230 235 240
 Asn Ala Ala Trp Ile Trp Ala Pro Leu Leu Ile Leu Ala Thr Leu Ala
 245 250 255
 Ala Phe Phe Gly Met Asn Asp Ile Ala Ser Ser Lys Ala Ser Ile Ala
 260 265 270
 Ser Gln Leu Pro Val Leu Lys Arg Phe His Leu Trp Leu Leu Ser Leu
 275 280 285
 Leu Tyr Leu Ala Thr Phe Gly Ser Phe Ile Gly Phe Ser Ala Gly Phe
 290 295 300
 Ala Met Leu Ser Lys Thr Gln Phe Pro Asp Val Asn Ile Leu His Leu
 305 310 315 320
 Ala Phe Phe Gly Pro Leu Ile Gly Ala Leu Ala Arg Ser Ala Gly Gly
 325 330 335
 Met Ile Ser Asp Arg Leu Gly Gly Val Arg Val Thr Leu Ile Asn Phe
 340 345 350
 Val Phe Met Ala Ile Phe Ser Ala Leu Ile Phe Leu Thr Leu Pro Gly
 355 360 365
 Ser Gly Ser Gly Ser Phe Ile Ala Phe Tyr Leu Val Phe Met Gly Leu
 370 375 380
 Phe Leu Thr Ala Gly Leu Gly Ser Gly Ser Thr Phe Gln Met Ile Ala
 385 390 395 400
 Ile Ile Phe Arg Gln Ile Thr Leu Asp Arg Val Lys Lys Gln Gly Gly
 405 410 415
 Ser Asp Glu Gln Ala Gln His Glu Ala Val Thr Glu Thr Ala Ala Ala
 420 425 430
 Leu Gly Phe Ile Ser Ala Ile Gly Ala Val Gly Gly Phe Phe Ile Pro
 435 440 445
 Lys Ala Phe Gly Thr Ser Leu Ala Met Thr Gly Ser Pro Val Gly Ala
 450 455 460
 Met Lys Val Phe Leu Val Phe Tyr Ile Val Cys Val Leu Val Thr Trp

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<210> 8696
<211> 530
<212> PRT
<213> Enterobacter cloacae
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[illegible]

405 410 415
 Val Leu Arg Ala Leu Lys Arg Met Met Ala Met Arg His Tyr Lys Arg
 420 425 430
 Ser Gln Thr Val Glu Gly Val Thr Asp Thr Arg Ala Ile Glu Glu Val
 435 440 445
 Gly Leu Thr Glu Ala Gln Val Glu Glu Met Tyr Arg Tyr Leu Ala Ile
 450 455 460
 Ala Asn Tyr Glu Asp Arg Phe Val Ile Pro Thr Ser His Arg Glu Met
 465 470 475 480
 Ala Arg Asp Ala Phe Pro Glu Lys Asn Gly Cys Gly Phe Thr Phe Gly
 485 490 495
 Asp Gly Cys His Gly Ser Asp Thr Lys Phe Asn Leu Phe Asn Ser Ser
 500 505 510
 Arg Ile Asp Ala Ile Asn Ile Thr Glu Val Arg Asp His Gly Glu Gly
 515 520 525
 Glu
 530

<210> 8697

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 8697

Cys Cys Gln Leu Thr Asp Leu Val Tyr Asp Gly Val Phe Glu Val Leu
 1 5 10 15
 Gln Trp Leu Leu Phe Leu Ser Ala Val Pro Pro Val Gln Leu Leu Thr
 20 25 30
 Gly Trp Cys Val Thr Ala Lys Ala Leu Pro Asp Ile Ser Ala Ile Ser
 35 40 45
 Ala Leu Thr Ala Val Lys His Gly Asn Cys Ser Ser Leu Thr Pro Leu
 50 55 60
 Leu Asn Pro Val Arg Thr Arg Lys Ser Leu Ile Trp Pro
 65 70 75

<210> 8698

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 8698

Pro Ile Val Asp Ile Ala Gln Ser His Ala Arg Arg Arg Lys Thr Met
 1 5 10 15
 Ile Pro Asn His Pro Glu Pro Glu Gln Ile Val Leu Glu Asn Val Leu
 20 25 30
 Phe Ala Leu Gly Asn Pro Leu Arg Leu Ala Ile Ile Arg Arg Leu Ala
 35 40 45
 Asp Gly Ser Glu Leu Ser Cys Asn Ala Leu Arg Pro Glu Glu Val Val
 50 55 60
 Lys Ser Thr Met Thr His Trp Arg Val Leu Arg Asp Ser Gly Val
 65 70 75 80
 Ile Trp Gln Arg Pro Gln Gly Arg Glu Asn Met Ile Ser Leu Arg Arg
 85 90 95
 Glu Asp Leu Asp Thr Arg Phe Pro Gly Leu Leu Ala Ile Leu Leu Gln
 100 105 110
 Ala Lys
 115

<210> 8699

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 8699

Ala Ala Met Leu Lys Asp Asn Phe Asn Asp Leu Leu Ser Phe Met Val
 1 5 10 15
 Val Ala Arg Glu Arg Ser Phe Thr Arg Ala Ala Ala Gln Leu Gly Val
 20 25 30
 Ser Gln Ser Ala Leu Ser His Ala Met Arg Asn Leu Glu Ala Arg Leu
 35 40 45
 Glu Val Arg Leu Leu Thr Arg Thr Thr Arg Ser Val Ala Pro Thr Glu
 50 55 60
 Ala Gly Glu Gln Leu Phe Met Arg Leu Ser Pro His Leu Leu Glu Ile
 65 70 75 80
 Glu Gln Glu Leu Thr Ala Leu Arg Asp Thr Arg Asp Arg Pro Ala Gly
 85 90 95
 Asn Ile Arg Leu Asn Ala Gly Glu His Ala Met Ser Thr Val Leu Trp
 100 105 110
 Pro Val Leu Lys Pro Phe Met Ala Gln Tyr Pro Asp Ile Asn Val Glu
 115 120 125
 Val Thr Val Asp Asn Gly Leu Thr Asp Ile Val Asp Gly Arg Phe Asp
 130 135 140
 Ala Gly Val Arg Leu Gly Glu Gln Val Ala Lys Asp Met Ile Ala Val
 145 150 155 160
 Arg Ile Ala Pro Asp Met Arg Met Ala Val Val Gly Ser Ala Glu Tyr
 165 170 175
 Leu Gln Arg Phe Gly Ile Pro Lys Thr Pro Glu Gln Leu Asp Gln His
 180 185 190
 Arg Cys Ile Asn Met Arg Leu Pro Thr Arg Gly Gly Leu Tyr Ala Trp
 195 200 205
 Glu Phe Glu Arg Asp Gly Arg Glu Leu Arg Val Arg Val Asp Gly Gln
 210 215 220
 Leu Ile Leu Asn Ser Leu Pro Gln Arg Ile Asp Ala Ala Glu Asn Gly
 225 230 235 240
 Leu Gly Leu Ala Tyr Val Pro Gln Asp Ala Val Gln Asp Ala Leu Ala
 245 250 255
 Lys Gly Arg Leu Val Gly Val Leu Glu Ala Trp Cys Pro Ala Phe Thr
 260 265 270
 Gly Tyr His Leu Tyr Tyr Pro Ser Arg Arg Gln His Thr Thr Ala Phe
 275 280 285
 Ala Leu Leu Ile Ala Ala Leu Arg His Thr
 290 295

<210> 8700

<211> 533

<212> PRT

<213> Enterobacter cloacae

<400> 8700

Leu Glu Arg Gln His Val Ser Ala Gln Lys Gln Ser Phe Val Ser Ala
 1 5 10 15
 Ser Ala Arg Gln Asp Tyr His Val Asn Gly Ser Asp Arg Gln Thr Gly
 20 25 30
 Asn Ser Met Lys Thr Ser Asn Lys Ser Ala Ala Asp His His Ala Ala
 35 40 45
 Lys Arg Arg Trp Leu Asn Ser His Glu Glu Gly Tyr His Lys Ala Met
 50 55 60
 Gly Asn Arg Gln Val Gln Met Ile Ala Ile Gly Gly Ala Ile Gly Thr
 65 70 75 80
 Gly Leu Phe Leu Gly Ala Gly Ala Arg Leu Gln Met Ala Gly Pro Ala
 85 90 95
 Leu Ala Leu Val Tyr Leu Val Cys Gly Ile Phe Ser Phe Phe Ile Leu

100 105 110
 Arg Ala Leu Gly Glu Leu Val Leu His Arg Pro Ser Ser Gly Ser Phe
 115 120 125
 Val Ser Tyr Ala Arg Glu Phe Leu Gly Glu Lys Ala Ala Tyr Val Ala
 130 135 140
 Gly Trp Met Tyr Phe Val Asn Trp Ala Met Thr Gly Ile Val Asp Ile
 145 150 155 160
 Thr Ala Val Ala Leu Tyr Met His Tyr Trp Gly Ala Phe Gly Asp Val
 165 170 175
 Pro Gln Trp Val Phe Ala Leu Gly Ala Leu Ala Ile Val Gly Thr Met
 180 185 190
 Asn Met Ile Gly Val Lys Trp Phe Ala Glu Met Glu Phe Trp Phe Ala
 195 200 205
 Leu Val Lys Val Leu Ala Ile Val Ile Phe Leu Val Val Gly Thr Val
 210 215 220
 Phe Leu Gly Thr Gly Lys Pro Leu Asp Gly Asn Ala Thr Gly Phe His
 225 230 235 240
 Leu Ile Thr Asp Asn Gly Gly Phe Phe Pro His Gly Leu Leu Pro Ala
 245 250 255
 Leu Val Leu Val Gln Gly Val Val Phe Ala Phe Ala Ser Ile Glu Leu
 260 265 270
 Val Gly Thr Ala Ala Gly Glu Cys Lys Asp Pro Gln Thr Met Val Pro
 275 280 285
 Lys Ala Ile Asn Ser Val Ile Trp Arg Ile Gly Leu Phe Tyr Val Gly
 290 295 300
 Ser Val Val Leu Leu Val Leu Leu Pro Trp Asn Ala Tyr Gln Ala
 305 310 315 320
 Gly Gln Ser Pro Phe Val Thr Phe Phe Ser Lys Leu Gly Val Pro Tyr
 325 330 335
 Val Gly Ser Ile Met Asn Ile Val Val Leu Thr Ala Ala Leu Ser Ser
 340 345 350
 Leu Asn Ser Gly Leu Tyr Ser Thr Gly Arg Ile Leu Arg Ser Met Ser
 355 360 365
 Met Gly Gly Ser Ala Pro Lys Phe Met Ser Lys Met Ser Lys Gln Gln
 370 375 380
 Val Pro Tyr Ala Gly Ile Leu Ala Thr Leu Val Val Tyr Ile Phe Gly
 385 390 395 400
 Val Phe Leu Asn Tyr Leu Val Pro Ser Gln Val Phe Glu Ile Val Leu
 405 410 415
 Asn Val Ala Ala Leu Gly Ile Ile Ala Ser Trp Ala Phe Ile Val Val
 420 425 430
 Cys Gln Met Arg Leu Arg Lys Ala Ile Lys Glu Gly Lys Ala Ala Asp
 435 440 445
 Val Ser Phe Lys Leu Pro Gly Ala Pro Val Thr Ser Trp Leu Thr Leu
 450 455 460
 Leu Phe Leu Leu Ser Val Leu Val Leu Met Ala Phe Asp Tyr Pro Asn
 465 470 475 480
 Gly Thr Tyr Thr Ile Ala Thr Ile Pro Leu Leu Ala Val Leu Leu Ile
 485 490 495
 Ala Gly Trp Phe Gly Val Arg Lys Arg Val Asn Glu Ile His Ser Thr
 500 505 510
 Ala Pro Val His Pro Gly Asp Asp Lys Gln Asp Gly Pro Leu Val Glu
 515 520 525
 Glu Thr Ser Arg
 530

<210> 8701

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 8701

Pro Val Tyr Ser Met Lys Ile Ile Thr Ala Arg Lys Ala Ser Leu Pro
 1 5 10 15
 Leu Leu Phe Ala Pro Val Ile Phe Gly Pro Leu Ser Ala Met Ala Ala
 20 25 30
 Asp Glu Gln Thr Leu Ile Val Ser Ala Thr Pro Gln Thr Val Ser Glu
 35 40 45
 Leu Asp Thr Pro Ala Ala Val Ser Val Val Ser Gly Glu Asp Met Arg
 50 55 60
 His Ala Thr Pro Arg Ile Asn Leu Ser Glu Ser Leu Gly Ser Val Pro
 65 70 75 80
 Gly Leu Gln Ile Gln Asn Arg Gln Asn Tyr Ala Gln Asp Leu Gln Leu
 85 90 95
 Ser Val Arg Gly Phe Gly Ala Arg Ser Thr Phe Gly Val Arg Gly Ile
 100 105 110
 Arg Met Tyr Val Asp Gly Ile Pro Ala Thr Met Pro Asp Gly Gln Gly
 115 120 125
 Gln Thr Ser Asn Ile Asp Leu Asn Ser Ile Glu Ser Val Asp Val Leu
 130 135 140
 Arg Gly Pro Phe Ser Ala Leu Tyr Gly Asn Ala Ser Gly Gly Val Ile
 145 150 155 160
 Asn Ile Asn Thr Gln Thr Gly Gln Gln Pro Ala Thr Ile Glu Ala Ser
 165 170 175
 Ser Tyr Tyr Gly Ser Tyr Gly Thr Trp Arg Tyr Gly Met Lys Ala Thr
 180 185 190
 Gly Ala Val Gly Asp Gly Thr Gln Ala Gly Asp Val Asp Tyr Ala Val
 195 200 205
 Ser Thr Thr Arg Phe Thr Thr His Gly Tyr Arg Asp His Ser Gly Ala
 210 215 220
 Arg Lys Asn Leu Ala Asn Ala Lys Leu Gly Val Arg Ile Asp Asp Val
 225 230 235 240
 Ser Lys Leu Thr Leu Ile Phe Asn Ser Val Asp Met Lys Ala Asn Asp
 245 250 255
 Pro Gly Gly Leu Ser Tyr Gln Glu Trp Gln Asn Asn Pro Arg Gln Ser
 260 265 270
 Pro Arg Gly Asp Gln Tyr Asn Thr Arg Lys Thr Ile Lys Gln Thr Gln
 275 280 285
 Ala Gly Ile Arg Tyr Asp Cys Gln Leu Ser Glu Gln Asp Asp Leu Ser
 290 295 300
 Val Met Met Tyr Ala Gly Glu Arg Glu Met Thr Gln Tyr Gln Ser Ile
 305 310 315 320
 Pro Asp Thr Ala Gln Thr Glu Asn Pro Ala His
 325 330

<210> 8702

<211> 1261

<212> PRT

<213> Enterobacter cloacae

<400> 8702

Cys Leu Thr Leu Arg Pro Cys Tyr Arg Ser Arg Arg Asn Val Met Ser
 1 5 10 15
 Lys Leu Leu Asp Arg Phe Arg Tyr Phe Lys Thr Lys Gly Asp Ser Phe
 20 25 30
 Ala Asp Gly His Gly Gln Val Tyr His Thr Asn Arg Asp Trp Glu Asp
 35 40 45
 Ser Tyr Arg Gln Arg Trp Gln Phe Asp Lys Ile Val Arg Ser Thr His
 50 55 60
 Gly Val Asn Cys Thr Gly Ser Cys Ser Trp Lys Ile Tyr Val Lys Asn
 65 70 75 80
 Gly Leu Val Thr Trp Glu Thr Gln Gln Thr Asp Tyr Pro Arg Thr Arg

Pro	Asp	Leu	Pro	Asn	His	Glu	Pro	Arg	Gly	Cys	Pro	Arg	Gly	Ala	Ser
Tyr	Ser	Trp	Tyr	Leu	Tyr	Ser	Ala	Asn	Arg	Leu	Lys	Tyr	Pro	Leu	Val
Arg	Arg	Arg	Leu	Ile	Glu	Leu	Trp	Arg	Glu	Ala	Leu	Ala	Gln	His	Thr
Asp	Pro	Val	Leu	Ala	Trp	Asp	Ala	Ile	Gln	Asn	Asp	Lys	Gln	Lys	Ala
Gln	Ser	Tyr	Arg	Lys	Ala	Arg	Gly	Lys	Gly	Gly	Phe	Ile	Arg	Ser	Asn
Trp	Lys	Glu	Leu	Asn	Gln	Leu	Ile	Ala	Ala	Ala	Asn	Val	Trp	Thr	Ile
Lys	Asn	Tyr	Gly	Pro	Asp	Arg	Val	Ala	Gly	Phe	Ser	Pro	Ile	Pro	Ala
Met	Ser	Met	Val	Ser	Tyr	Ala	Ala	Gly	Thr	Arg	Tyr	Leu	Ser	Leu	Leu
Gly	Gly	Thr	Cys	Leu	Ser	Phe	Tyr	Asp	Trp	Tyr	Cys	Asp	Leu	Pro	Pro
Ala	Ser	Pro	Met	Thr	Trp	Gly	Glu	Gln	Thr	Asp	Val	Pro	Glu	Ser	Ala
Asp	Trp	Tyr	Asn	Ser	Ser	Tyr	Ile	Ile	Ala	Trp	Gly	Ser	Asn	Val	Pro
Gln	Thr	Arg	Thr	Pro	Asp	Ala	His	Phe	Phe	Thr	Glu	Val	Arg	Tyr	Lys
Gly	Thr	Lys	Thr	Val	Ala	Ile	Thr	Pro	Asp	Phe	Ser	Glu	Val	Ala	Lys
Leu	Ser	Asp	Gln	Trp	Leu	Ala	Pro	Lys	Gln	Gly	Thr	Asp	Ser	Ala	Leu
Ala	Met	Ala	Met	Gly	His	Val	Ile	Leu	Lys	Glu	Phe	His	Leu	Asp	Asn
Pro	Ser	Asp	Tyr	Phe	Leu	Asn	Tyr	Cys	Arg	Arg	Tyr	Thr	Asp	Met	Pro
Met	Leu	Val	Leu	Leu	Asp	Glu	Gln	Ala	Asp	Gly	Arg	Val	Val	Pro	Gly
Arg	Met	Leu	Arg	Ala	Ser	Asp	Leu	Ala	Asp	Gly	Leu	Gly	Glu	Thr	Asn
Asn	Pro	Glu	Trp	Lys	Thr	Ile	Ala	Phe	Asp	Val	Ala	Gly	Asn	Leu	Val
Ala	Pro	Asn	Gly	Ser	Ile	Gly	Phe	Arg	Trp	Gly	Glu	Lys	Gly	Lys	Trp
Asn	Leu	Glu	Ser	Leu	Ala	Ala	Gly	Gln	Glu	Thr	Glu	Leu	Thr	Leu	Ser
Leu	Leu	Ile	Thr	His	Asp	Ser	Val	Ala	Asp	Val	Ala	Phe	Pro	Tyr	Tyr
Gly	Gly	Asn	Glu	Asn	Pro	His	Phe	Arg	Ser	Val	Lys	Gln	Glu	Pro	Val
Leu	Thr	Arg	Arg	Val	Pro	Ser	Lys	Thr	Leu	Thr	Leu	Ala	Asp	Gly	Ser
Gln	Gln	Arg	Val	Val	Ser	Val	Tyr	Asp	Leu	Val	Leu	Ala	Asn	Tyr	Gly
Leu	Asp	Arg	Gly	Leu	Glu	Asp	Ser	Asn	Ala	Ala	Thr	Asn	Tyr	Ala	Glu
Ile	Lys	Ala	Tyr	Thr	Pro	Ala	Trp	Gly	Glu	Gln	Ile	Thr	Gly	Val	Pro
Ala	Tyr	Leu	Ile	Glu	Lys	Ile	Ala	Arg	Glu	Phe	Ala	Asp	Thr	Ala	His
Lys	Thr	His	Gly	Arg	Ser	Met	Ile	Ile	Leu	Gly	Ala	Gly	Val	Asn	His
Trp	Tyr	His	Met	Asp	Met	Asn	Tyr	Arg	Gly	Met	Ile	Asn	Met	Leu	Val

Phe Cys Gly Cys Val Gly Gln Ser Gly Gly Gly Trp Ser His Tyr Val
 580 585 590
 Gly Gln Glu Lys Leu Arg Pro Gln Thr Gly Trp Leu Pro Leu Ala Phe
 595 600 605
 Ala Leu Asp Trp Asn Arg Pro Pro Arg Gln Met Asn Ser Thr Ser Tyr
 610 615 620
 Phe Tyr Asn His Ala Ser Gln Trp Arg Tyr Glu Lys Leu Thr Ala Arg
 625 630 635
 Glu Leu Leu Ser Pro Leu Ala Asp Ala Ser Lys Phe Thr Gly His Leu
 645 650 655
 Ile Asp Phe Asn Val Arg Ala Glu Arg Met Gly Trp Leu Pro Ser Ala
 660 665 670
 Pro Gln Leu Asn Leu Asn Pro Leu His Val Lys Ala Arg Ala Asn Ala
 675 680 685
 Ala Gly Met Ser Pro Gln Asp Tyr Thr Val Gln Ala Leu Lys Ser Gly
 690 695 700
 Asp Ile Arg Phe Ala Cys Glu Gln Pro Asp Asn Gly Lys Asn His Pro
 705 710 715 720
 Arg Asn Leu Phe Val Trp Arg Ser Asn Leu Leu Gly Ser Ser Gly Lys
 725 730 735
 Gly His Glu Tyr Met Leu Lys Tyr Leu Leu Gly Thr Glu Ser Gly Ile
 740 745 750
 Gln Gly Glu Asp Leu Gly Ser Thr Asp Asp Val Lys Pro Glu Glu Val
 755 760 765
 Glu Trp Gln Thr Ala Ala Ile Glu Gly Lys Leu Asp Leu Leu Val Thr
 770 775 780
 Leu Asp Phe Arg Met Ser Ser Thr Cys Leu Phe Ser Asp Ile Val Leu
 785 790 795 800
 Pro Thr Ala Thr Trp Tyr Glu Lys Asp Asp Met Asn Thr Ser Asp Met
 805 810 815
 His Pro Phe Ile His Pro Leu Ser Ala Ala Val Asp Pro Ala Trp Glu
 820 825 830
 Ser Arg Ser Asp Trp Glu Ile Tyr Lys Gly Ile Ala Lys Val Phe Ser
 835 840 845
 Glu Val Cys Val Gly His Leu Gly Thr Glu Thr Asp Val Val Leu Gln
 850 855 860
 Pro Leu Gln His Asp Ser Pro Gly Glu Leu Ser Gln Pro Phe Asp Ile
 865 870 875 880
 Leu Asp Trp Arg Lys Gly Glu Cys Asp Leu Ile Pro Gly Lys Thr Ala
 885 890 895
 Pro Asn Ile Ala Val Val Glu Arg Asn Tyr Pro Glu Thr Tyr Glu Arg
 900 905 910
 Phe Thr Ala Leu Gly Pro Leu Leu Asp Thr Leu Gly Asn Gly Gly Lys
 915 920 925
 Gly Ile Ser Trp Asn Thr Gln Asn Glu Val Asp Phe Leu Gly Lys Leu
 930 935 940
 Asn Tyr Val Lys Leu Asp Gly Pro Ala Lys Gly Arg Pro Arg Ile Glu
 945 950 955 960
 Thr Ala Ile Asp Ala Ser Glu Val Ile Leu Ala Leu Ala Pro Glu Thr
 965 970 975
 Asn Gly Gln Val Ala Val Lys Ala Trp Glu Ala Leu Gly Glu Leu Thr
 980 985 990
 Gly Arg Asp His Thr His Leu Ala Leu Asn Lys Glu Asp Glu Lys Ile
 995 1000 1005
 Arg Phe Arg Asp Ile Gln Ala Gln Pro Arg Lys Ile Ile Ser Ser Pro
 1010 1015 1020
 Thr Trp Ser Gly Leu Glu Ser Glu His Val Ser Tyr Asn Ala Gly Tyr
 1025 1030 1035 1040
 Thr Asn Val His Glu Leu Ile Pro Trp Arg Thr Ile Ser Gly Arg Gln
 1045 1050 1055
 Gln Leu Tyr Gln Asp His Ala Trp Met Arg Ala Phe Gly Glu Ser Leu

1060 1065 1070
 Val Ala Tyr Arg Pro Pro Ile Asp Thr Arg Ser Val Thr His Met Arg
 1075 1080 1085
 Glu Ile Pro Pro Asn Gly Tyr Pro Glu Lys Ala Leu Asn Phe Leu Thr
 1090 1095 1100
 Pro His Gln Lys Trp Gly Ile His Ser Thr Tyr Ser Glu Asn Leu Leu
 1105 1110 1115 1120
 Met Gln Thr Leu Ser Arg Gly Gly Pro Ile Val Trp Ile Ser Glu Thr
 1125 1130 1135
 Asp Ala Arg Glu Leu Gly Ile Glu Asp Asn Asp Trp Ile Glu Ala Phe
 1140 1145 1150
 Asn Ala Asn Gly Ala Leu Thr Ala Arg Ala Val Val Ser Gln Arg Val
 1155 1160 1165
 Pro Pro Gly Met Thr Met Met Tyr His Ala Gln Glu Arg Ile Leu Asn
 1170 1175 1180
 Ile Pro Gly Ser Glu Val Thr Gly Arg Arg Gly Gly Ile His Asn Ser
 1185 1190 1195 1200
 Val Thr Arg Val Cys Pro Lys Pro Thr His Met Ile Gly Gly Tyr Ala
 1205 1210 1215
 Gln Leu Ala Tyr Ser Phe Asn Tyr Tyr Gly Thr Val Gly Ser Asn Arg
 1220 1225 1230
 Asp Glu Phe Ile Met Ile Arg Lys Met Lys Asn Ile Asn Trp Leu Asp
 1235 1240 1245
 Gly Glu Gly Arg Asp Gln Val Gln Glu Ala Lys Lys
 1250 1255 1260

<210> 8703

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 8703

Pro Gly Arg Arg Ala Ala Val Arg Gly Arg Gln Arg Arg Arg Pro Lys
 1 5 10 15
 Met Thr His Tyr Leu Asn Val Phe Phe Tyr Asp Ile Tyr Pro Tyr Ile
 20 25 30
 Cys Ala Thr Val Phe Phe Leu Gly Ser Trp Leu Arg Tyr Asp Tyr Gly
 35 40 45
 Gln Tyr Thr Trp Arg Ala Ser Ser Ser Gln Met Leu Ser Lys Arg Gly
 50 55 60
 Met Asn Trp Ala Ser Asn Leu Phe His Ile Gly Ile Leu Gly Ile Phe
 65 70 75 80
 Phe Gly His Leu Phe Gly Met Leu Thr Pro His Trp Met Tyr Ala Trp
 85 90 95
 Phe Leu Pro Ile Ala Val Lys Gln Gln Leu Ala Met Ile Ala Gly Gly
 100 105 110
 Ile Cys Gly Val Leu Thr Leu Ile Gly Gly Ser Met Leu Leu Ile Arg
 115 120 125
 Arg Leu Phe Asn Gln Arg Val Arg Ala Thr Ser Thr Thr Pro Asp Ile
 130 135 140
 Ile Ile Met Ser Ile Leu Leu Gln Cys Ile Leu Gly Leu Ser Thr
 145 150 155 160
 Ile Pro Phe Ser Ala Gln Tyr Pro Asp Gly Ser Glu Met Met Lys Leu
 165 170 175
 Val Gly Trp Ala Gln Gly Ile Val Thr Phe Lys Gly Gly Ser Ser Glu
 180 185 190
 Met Leu Ser Gly Val Ala Pro Ile Phe Arg Val His Leu Val Leu Gly
 195 200 205
 Met Thr Ile Phe Leu Ile Phe Pro Phe Thr Arg Leu Val His Val Trp
 210 215 220
 Ser Ala Pro Phe Glu Tyr Phe Thr Arg Arg Tyr Gln Val Val Arg Ser

225 230 235 240
Arg Arg

<210> 8704
<211> 175
<212> PRT
<213> Enterobacter cloacae

<400> 8704
Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
1 5 10 15
Arg Trp Pro Gln His Asp Phe Pro Pro Phe Lys Lys Leu Arg Pro Gln
 20 25 30
Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
 35 40 45
Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
 50 55 60
Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
65 70 75 80
Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
 85 90 95
Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
 100 105 110
Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
 115 120 125
Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
130 135 140
Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
145 150 155 160
Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 8705
<211> 179
<212> PRT
<213> Enterobacter cloacae

<400> 8705
Leu Thr Leu His Thr Leu Arg Asn Asp Leu Phe Arg His Ile Pro Arg
1 5 10 15
Ser Phe Arg Lys Met Met Glu Phe His Arg Ile Arg Arg Ala Pro Leu
 20 25 30
Gly His Arg Ala Gln Arg Gly Gly Ile Thr Lys His Leu Ser Gln Arg
 35 40 45
Asp Val Ser Ala Asn Asn Leu Ala Ala Val Leu Leu Cys His Pro Leu
 50 55 60
His Gln Ala Ala Thr Gly Gly Glu Ile Ala His Asn Val Pro Gly Ile
65 70 75 80
Leu Phe Arg Arg Phe His Leu Asn Val His Asp Arg Leu Lys Asn Asn
 85 90 95
Arg Val Arg Pro Pro Cys Ala Leu Phe Glu Ala Glu Asp Arg Arg His
 100 105 110
Ala Glu Gly His Leu Arg Gly Val Asn Val Met Val Arg Thr Lys Arg
 115 120 125
Gln Gly Arg Phe His Ile His His Arg Ile Ala Arg Gln His Thr Arg
130 135 140
Ile His Gly Phe Ser Gln Pro Phe Phe His Arg Arg Asp Val Leu Pro
145 150 155 160
Arg His His Pro Ala Phe Gly Gly Ile Phe Lys His Lys Thr Thr Pro
 165 170 175

Gly Cys

<210> 8706

<211> 90

<212> PRT

<213> *Enterobacter cloacae*

<400> 8706

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Arg Leu Lys Ala Gln Asp His Met Thr Val Leu Pro Phe Pro Ala Gly
1      5      10      15
Leu Ser Asp Lys Phe Thr Phe Tyr Ile Phe His Arg Phe Thr Gln Gly
      20      25      30
Phe Thr Val Gly Asp Leu Arg Thr Thr Asn Val Arg Leu Asn Ala Lys
      35      40      45
Leu Ala Leu His Ala Val Asp Asp Asp Leu Gln Met Gln Leu Ala His
      50      55      60
Pro Gly Asp Asn Arg Leu Thr Gly Leu Phe Val Arg Val Gln Ala Glu
65      70      75      80
Arg Arg Ile Phe Arg Arg Gln Ala Leu
      85      90

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<210> 8707

<211> 318

<212> PRT

<213> *Enterobacter cloacae*

<400> 8707

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Ser Asp Pro His Phe Leu Leu Ile Gly Leu Gly Phe Arg Leu Asn Arg
1      5      10      15
Gln Arg Asn Asn Arg Ile Arg Glu Leu His Pro Phe Lys Gly Asp His
      20      25      30
Arg Ile Arg Val Gly Gln Arg Val Thr Gly Gly Asp Val Phe Gln Pro
      35      40      45
Asp Thr Gly Cys Asp Ile Pro Cys Ala Gln Leu Val His Leu Met Ala
      50      55      60
Ile Val Gly Met His Gln His Asp Ala Pro Asp Thr Leu Phe Leu Ala
65      70      75      80
Leu His Arg Val Val His Arg Val Ala Phe Thr Gln Tyr Ala Gly Ile
      85      90      95
Asp Ala Asp Glu Gly Gln Leu Ala Asp Val Arg Ile Ala His Gln Leu
      100      105      110
Glu Gly Gln Arg Arg Glu Arg Phe Ile Ile Ala Trp Val Ala Leu Gly
      115      120      125
Val Leu Ser Val Phe Val Tyr Pro Ile Asn Ser Gly His Val Gln Trp
      130      135      140
Arg Arg His Gln Phe Asn His Arg Val Glu His Ala Leu His Ala Leu
145      150      155      160
Val Leu Glu Ser Ala Ala Gln His Gly Leu Tyr Phe Thr Gly Asp
      165      170      175
Ser Pro Asp Pro Gln Ser Phe Asp Asp Phe Arg Phe Ile Gln Phe Ala
      180      185      190
Arg Leu Lys Val Leu Ile His Lys Leu Ile Ala Gly Phe Cys Arg Arg
      195      200      205
Arg Asp His Phe Phe Ser Pro Arg Leu Gly Gly Thr Gln Gln Ile Val
210      215      220
Arg His Arg Arg Val Ala Lys Cys His Ala Leu Arg Arg Ile Val Pro
225      230      235      240
Gln Asn Gly Ala His Leu Asp Glu Ile His His Ala Gly Glu Val Phe
      245      250      255
Phe Cys Pro His Gly Asp His Asn Arg Asp Arg Ile Gly Phe Gln Pro

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260	265	270
Leu Leu His His Pro His His Ala Glu Glu Ile Cys Ala Arg Ala Val		
275	280	285
His Phe Val Asp Glu Cys Gln Thr Arg Asn Met Val Phe Ile Arg Leu		
290	295	300
Thr Pro Asp Gly Phe Arg Leu Arg Leu His Ala Thr Asp		
305	310	315

<210> 8708

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 8708

Ile Met Lys Ile Ile Arg Ser Gly Ser Leu Pro Ser Val Gln Gly Pro		
1	5	10
Glu Ala Trp Phe Thr Gly Ser Val Arg Ile Asp Ala Pro Phe Gln Ala		15
20	25	30
Thr Glu Pro Ala Lys Val Gly Gly Ala Thr Val Thr Phe Glu Pro Gly		
35	40	45
Ala Arg Thr Ala Trp His Thr His Pro Leu Gly Gln Thr Leu Ile Val		
50	55	60
Thr Gln Gly Arg Gly Trp Leu Gln Glu Trp Gly Lys Glu Ala Glu Pro		
65	70	75
Leu Asn Gln Gly Asp Ile Ala Trp Ile Pro Pro Gly Val Lys His Trp		
85	90	95
His Gly Ala Ser Ala Gln Thr Ala Met Thr His Ile Ala Ile Ala Glu		
100	105	110
Ala Val Glu Gly Ser Pro Val Ala Trp Leu Glu Lys Val Thr Asp Glu		
115	120	125
Gln Tyr Pro Asn Glu		
130		

<210> 8709

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 8709

Val Lys Arg Glu Glu Arg Asn Met Ser Trp Arg Ile Ser Ile Leu Asp Lys		
1	5	10
Ser Pro Val Ala Glu His Glu Thr Ala Ala Asp Ala Leu Ala Arg Thr		15
20	25	30
Leu Ala Leu Ala Gln Gln Ala Glu Thr Leu Gly Tyr His Arg Phe Trp		
35	40	45
Ile Ala Glu His His Asn Thr Pro Gln Leu Ala Ser Pro Ser Pro Glu		
50	55	60
Leu Leu Ile Ala Trp Ile Leu Gly Gln Thr Lys Arg Ile Arg Val Gly		
65	70	75
Ser Gly Gly Val Met Leu Gln His Tyr Ser Pro Tyr Lys Val Ala Glu		
85	90	95
Asn Phe Asn Val Leu Ala Ala Ile Ala Pro Gly Arg Val Asp Leu Gly		
100	105	110
Val Gly Lys Ala Pro Gly Gly Leu Pro Leu Ser Thr Arg Ala Leu Gln		
115	120	125
Tyr Gly Leu Asn Pro Gln Glu Lys Gly Ser Phe Ala Asp Gln Leu Thr		
130	135	140
Gln Leu Asp Arg Trp Ile Arg Pro Glu Asn Gln Ser Ala Glu Glu Asp		
145	150	155
Val Arg Ala Thr Pro Leu Pro Pro Ala Pro Ala Arg Gly Phe Leu Leu		
165	170	175

Gly Ala Ser Thr Glu Ser Val Leu Leu Ala Ala Ser Leu Asp Trp His
 180 185 190
 Phe Val Phe Ala Ala His Leu Asn Gly Asp Pro Glu Leu Leu Arg Asp
 195 200 205
 Val Val Thr Ala Trp Arg Gln His Ser Val Arg Glu Val Ile Val Ala
 210 215 220
 Val Gln Ala Ile Val Ala Pro Thr Gln Ala Glu Ala Asp Ala Leu Ala
 225 230 235 240
 Gln Lys Val Glu Val Trp Gly Val Glu Leu Ala Asn Gly Gln Arg Val
 245 250 255
 Thr Val Ala Ser Glu Glu Gln Ala Tyr Ala Phe Ala Arg Gln Ala Gly
 260 265 270
 Ser Glu Pro Val Arg Ile Ala Arg Arg Ala Gln Ser Leu Leu Ala Gly
 275 280 285
 Thr Ala Ala Ser Val His Glu Gln Leu Asn Ala Leu His Gln Gln Trp
 290 295 300
 Gly Ile Asp Glu Phe Ile Ile Asp Thr Pro Val Ala Asp Gly Ala Thr
 305 310 315 320
 Arg Val Gln Ser Leu Arg Leu Leu Ala Glu Ala Arg Leu Asn Arg Glu
 325 330 335
 Val Thr Val 340

<210> 8710

<211> 443

<212> FRT

<213> Enterobacter cloacae

<400> 8710

Phe Glu Val Asn Met Thr Ala His Arg Gln Leu Arg Leu Gly Thr Ile
 1 5 10 15
 Leu His Gly Ala Ser Gly Asn Met Ser Ala Trp Arg His Pro Ala Ala
 20 25 30
 Val Ala Asp Ala Ser Ile Asn Phe Asp Phe Val Lys Glu Thr Ala Leu
 35 40 45
 Lys Ala Glu Glu Gly Lys Leu Asp Phe Ile Phe Val Ala Asp Gly Leu
 50 55 60
 Tyr Ile Asn Glu Lys Ser Ile Pro His Phe Leu Asn Arg Phe Glu Pro
 65 70 75 80
 Leu Thr Val Leu Ser Ala Leu Ala Ser Ile Thr Ser Arg Leu Gly Leu
 85 90 95
 Val Gly Thr Leu Ser Thr Ser Tyr Ser Glu Pro Phe Thr Val Ala Arg
 100 105 110
 Gln Phe Ala Ser Leu Asp His Leu Ser Asn Gly Arg Ala Gly Trp Asn
 115 120 125
 Val Val Thr Ser Pro Leu Glu Gly Ser Ala Arg Asn Phe Ser Arg Glu
 130 135 140
 Lys His Pro Glu His Ala Leu Arg Tyr Arg Ile Ala Asp Glu Tyr Leu
 145 150 155 160
 Asp Val Val Lys Gly Leu Trp Asp Ser Trp Glu Gly Asp Ala Phe Ile
 165 170 175
 Arg Asn Lys Glu Ser Gly Gln Phe Phe Asp Ala Ser Lys Leu His Thr
 180 185 190
 Leu Asp His His Gly Asp Phe Phe Gln Val Ser Gly Pro Leu Asn Ile
 195 200 205
 Gly Arg Thr Pro Gln Gly Arg Pro Ile Val Phe Gln Ala Gly Ala Ser
 210 215 220
 Asp Asp Gly Lys Lys Leu Ala Ala Lys His Ala Asp Ala Ile Phe Thr
 225 230 235 240
 His His Asp Thr Arg Glu Glu Ala Gln Ala Phe Tyr Arg Asp Val Lys
 245 250 255

Gln Gln Leu Glu Ser His Gly Arg Arg Ala Gly Asp Leu His Ile Phe
 260 265
 Gln Gly Val Ser Val Ile Val Gly Asn Asp Ala Asp Asp Val Glu Asn
 275 280
 Gln Tyr Gln Thr Thr Ala Ala Leu Val Ser Ile Asn Asp Ala Leu Asn
 290 295 300
 Tyr Leu Gly Arg Tyr Phe Glu His His Asp Phe Ser Gln Tyr Pro Leu
 305 310 315 320
 Asp Ala Pro Phe Pro Asp Ile Gly Asp Leu Gly Lys Asn Ser Phe Arg
 325 330 335
 Ser Thr Thr Asp Glu Ile Lys Arg Asn Ala Arg Glu Arg Asn Leu Thr
 340 345 350
 Leu Arg Gln Val Ala Leu Glu Ala Ala Ser Pro Arg Pro Arg Phe Ser
 355 360 365
 Gly Thr Pro Glu Gln Val Ala Asp Gly Leu Gln Ala Trp Phe Glu Glu
 370 375 380
 Lys Ala Ala Asp Gly Phe Ile Ile Gln Gly Gly Thr Pro Asp Thr Phe
 385 390 395 400
 Pro Arg Phe Val Asp Gln Val Val Pro Val Leu Gln Ala Arg Gly Leu
 405 410 415
 Phe Arg Thr Asp Tyr Pro Gly Thr Thr Leu Arg Glu Ser Leu Gly Leu
 420 425 430
 Asp Glu Pro Lys Asn Gln Phe Thr Gln Gln
 435 440

<210> 8711

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 8711

Thr Arg Thr Gly Arg Arg Val Ala Arg Val Arg Ser Pro Leu Arg Gln
 1 5 10 15
 His Arg Ser Leu Phe Met Gln Ala Ser Pro Glu Gly His Ile Ser Ile
 20 25 30
 Thr Gly Val Ser Lys Phe Phe Gly Arg His Lys Ala Leu Asp Asn Val
 35 40 45
 Thr Leu Glu Ile Pro Pro Gly Ser Val Thr Val Ile Leu Gly Pro Ser
 50 55 60
 Gly Ser Gly Lys Ser Thr Leu Leu Arg Ala Ile Asn His Leu Glu Arg
 65 70 75 80
 Val Asp Glu Gly Phe Ile Gln Ile Asp Gly Asp Tyr Ile Gly Tyr Arg
 85 90 95
 Arg Gln Gly Asp Lys Leu Tyr Glu Leu Lys Glu Arg Glu Ile Leu Lys
 100 105 110
 Gln Arg Val Asn Val Gly Tyr Val Phe Gln Asn Phe Asn Leu Phe Pro
 115 120 125
 His Leu Thr Val Leu Glu Asn Leu Ile Glu Ala Pro Ile Ala His Lys
 130 135 140
 Lys Phe Ser Lys Lys Glu Ala Val Glu Asn Ala Tyr Ser Leu Leu Asp
 145 150 155 160
 Val Val Gly Leu Arg Asp Lys Ala Asp Ala Trp Ser Arg His Leu Ser
 165 170 175
 Gly Gly Gln Gln Arg Ile Ala Ile Ala Arg Ala Leu Ala Leu Arg
 180 185 190
 Pro Arg Val Met Leu Phe Asp Glu Pro Thr Ser Ala Leu Asp Pro Glu
 195 200 205
 Leu Val Gly Glu Val Leu Asp Val Ile Lys Lys Leu Ala Arg Ser Gly
 210 215 220
 Thr Thr Leu Val Val Val Thr His Glu Ile Gly Phe Ala Arg Glu Val
 225 230 235 240

Ala Asp Gln Val Val Phe Met Val Asp Gly Lys Ile Val Glu Gln Gly
 245 250 255
 Ser Ser Asp Asp Val Leu Asn Arg Pro Ser His Pro Arg Thr Arg Gln
 260 265 270
 Phe Leu Ser Lys Val Leu
 275

<210> 8712

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 8712

Gly Ala Gln Met Lys Tyr Gly Leu Leu Ala Gly Leu Val Phe Thr Thr
 1 5 10 15
 Ala Ser His Ala Ser Ile Asp Leu Lys Ala Asn Glu Gln Pro Leu Pro
 20 25 30
 Val Thr Val Asp Gln Gln Ala Val Ala Lys Ile Pro Ala Asn Tyr Lys
 35 40 45
 Phe Val Glu Pro Gly Thr Leu Thr Val Ala Ile Ser Ala Leu Asn Ser
 50 55 60
 Pro Pro Leu Ala Leu Leu Ala Ser Asp Asn Arg Thr Arg Ile Gly Ser
 65 70 75 80
 Asp Pro Asp Ile Ala Arg Leu Leu Ala Gly Ser Leu Gly Leu Lys Leu
 85 90 95
 Lys Leu Val Pro Thr Ala Trp Glu Asp Trp Pro Leu Gly Ile Thr Ser
 100 105 110
 Gly Arg Tyr Asp Val Ala Leu Val Asn Ile Ala Val Thr Glu Gln Arg
 115 120 125
 Lys Glu Lys Phe Asp Phe Ala Thr Tyr Arg Val Asp Ser Leu Ala Phe
 130 135 140
 Ser Val Lys Ser Thr Ser Asn Val Gln Ser Ile Thr Ser Ala Lys Asp
 145 150 155 160
 Leu Ala Gly Lys Lys Val Ile Val Gly Ser Gly Thr Asn Gln Glu Arg
 165 170 175
 Ile Leu Leu Gly Trp Asn Glu Glu Asn Lys Lys Ala Gly Arg Glu Pro
 180 185 190
 Ala Leu Pro Val Tyr Leu Thr Asp Asp Ala Ser Gly Asn Leu Tyr Ile
 195 200 205
 Gln Ser Gly Arg Ala Asp Val Phe Phe Gly Pro Gln Ser Val Ser Ala
 210 215 220
 Tyr Lys Ala Ala Leu Thr Gly Lys Thr Arg Val Val Gly Leu Gly Pro
 225 230 235 240
 Lys Lys Ala Tyr Val Ala Thr Tnr Thr Lys Lys Gly Asn Gly Leu Val
 245 250 255
 Tyr Ala Leu Gln Ala Ala Leu Asp Gly Ala Ile Lys Arg Gly Glu Tyr
 260 265 270
 Gln Lys Val Leu Ala Arg Trp Gly Glu Ala Gly Glu Ala Val Thr Ser
 275 280 285
 Ser Asp Val Asn Pro Pro Gly Ile Thr Tyr
 290 295

<210> 8713

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 8713

Ser Asp Asn Val Glu Arg Ser Pro Ile Lys Gly Ala Leu Pro Met Pro
 1 5 10 15
 His Val Asp Ile Lys Cys Phe Pro Arg Asp Leu Thr Asp Glu Gln Lys

	20						25					30					
Thr	Ala	Leu	Ala	Ala	Asp	Ile	Ala	Glu	Ala	Ile	Ala	Arg	His	Leu	Asn		
							40					45					
Ser	Lys	Asp	Arg	Ser	Ile	Ser	Val	Ala	Leu	Gln	Glu	Val	Gln	Glu	Ala		
	50					55					60						
Asp	Trp	Lys	Ala	Gln	Val	Trp	Asp	Thr	Glu	Ile	Gly	Pro	Lys	Leu	Asp		
65					70						75				80		
Glu	Leu	Ile	Lys	Lys	Pro	Gly	Tyr	Ser	Met								
				85					90								

<210> 8714

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 8714

1	Asp	Asn	Phe	5	Ser	Met	Thr	Lys	Leu	Pro	Gln	Phe	Ser	Leu	Ala	Phe
Ile	His	Pro	Arg	20	Tyr	Trp	Leu	Ser	Trp	10	Ala	Gly	Ile	Ala	Ala	15
Cys	Thr	Val	Gln	20	Leu	Pro	Tyr	Pro	25	Leu	Leu	Lys	Thr	Gly	His	Arg
Leu	Gly	Arg	Leu	35	Ala	Met	Arg	Leu	40	Leu	Pro	Arg	Arg	45	Val	Glu
Arg	Arg	Asn	Leu	50	Glu	Leu	70	Cys	55	Phe	Pro	Asp	Met	60	Lys	Glu
65	Arg	Arg	Asn	Leu	85	Glu	Arg	Asn	90	Phe	Glu	Ser	Val	75	Gly	Met
Glu	Arg	Leu	Leu	100	Ala	Trp	Phe	Trp	105	Pro	Asn	Trp	Arg	Val	Arg	Arg
Glu	Thr	Gly	Ile	115	Leu	Thr	Gly	Tyr	120	His	Met	Glu	Gln	Ala	Arg	Ala
Phe	Ser	Val	Thr	130	Val	Val	Leu	Ile	135	Gly	Met	His	Phe	Leu	Thr	Leu
Arg	Gly	Val	Val	145	Arg	Ile	Phe	Gly	150	Met	Leu	Asn	Ala	Gly	Ile	Gly
Ala	Arg	Ile	Phe	160	Asn	Asn	Asn	Ala	165	Leu	Leu	Asp	Trp	Leu	Gln	Thr
Asn	Asn	Asn	Ala	180	Ser	Asn	Lys	Thr	185	Tyr	Asp	Leu	Lys	Gly	Met	Ile
Ser	Asn	Lys	Thr	195	Met	Leu	Asp	Arg	200	Trp	Tyr	Ala	Pro	Asp	His	Asp
Ala	Leu	Lys	Gln	210	Asn	Ser	Val	Phe	215	Val	Pro	Phe	Ala	Val	Pro	Asp
Gly	Lys	Thr	Asn	225	Thr	Ala	Gly	Ser	230	Tyr	Met	Leu	Val	Lys	Ser	Ala
Ala	Thr	Thr	Ala	240	Val	Pro	Arg	Arg	245	Lys	Ala	Asp	Gly	Thr	Gly	Tyr
Val	Ile	Pro	Phe	255	Val	Pro	Arg	Arg	260	Leu	Val	Lys	Ser	Ala	Arg	Pro
Leu	Leu	Ile	Leu	265	Glu	Asp	Ile	Ser	270	Asp	Thr	Leu	Gln	Gly	Gly	Asp
Ala	Ser	Val	Ala	280	Thr	Gln	Met	Asn	285	Arg	Ala	Ile	Glu	Arg	Ala	Val
Met	Ala	Pro	Glu	290	Gln	Tyr	Met	Trp	295	Leu	His	Arg	Arg	Phe	Lys	Thr
Pro	Glu	Gly	Gln	300	Pro	Asp	Arg	Tyr	305	Lys	Arg	Lys	Lys	Gln	Val	Ala
Thr	Ala	Arg	Thr	310	Leu	Ser	Ala	Ser	315	Asp	Ile	Ser	Asp	Arg	Ser	Ser
Gln	Gln			325					330							335

<210> 8715

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 8715

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Phe Ile Asn Arg Gly Tyr His Leu Leu Glu Gln Ile Met Ser Pro Phe
1      5      10      15
Leu Ser Ala Tyr Phe Ala Arg Thr Gly Trp Gln Gln Pro Val Gln Val
20      25      30
Asn Ile Asp Thr Leu Arg Gly Leu His Leu His His Asn Cys Ala Ile
35      40      45
Pro Phe Glu Asn Ile Asp Val Val Leu Pro Arg Glu Ile His Leu Asp
50      55      60
Asp Gly Cys Leu Val Asp Lys Leu Val Thr Ala Arg Arg Gly Gly Tyr
65      70      75      80
Cys Phe Glu Gln Asn Gly Leu Phe Glu Arg Val Leu Arg Glu Val Gly
85      90      95
Phe Thr Val Arg Ser Val Leu Gly Arg Val Val Leu Ala Asn Pro Ser
100     105     110
Gln Met Pro Pro Arg Thr His Arg Leu Leu Leu Val Glu Leu Asn Gly
115     120     125
Glu Arg Trp Ile Ala Asp Val Gly Phe Gly Gly Gln Thr Leu Thr Ala
130     135     140
Pro Ile Arg Leu Ile Ala Asn Glu Glu Gln Glu Thr Pro His Gly Arg
145     150     155     160
Tyr Arg Leu Leu Ser Glu Gly Asn Asp Trp Ile Leu Gln Phe Arg His
165     170     175
His Asp His Trp Gln Ser Met Tyr His Phe Asp Leu Ala Thr Gln Tyr
180     185     190
Phe Asn Asp Tyr Val Met Gly Asn Phe Trp Ser Ala His Trp Pro Gln
195     200     205
Ser His Phe Arg His His Leu Met Cys Arg His Leu Pro Asp Gly
210     215     220
Gly Lys Leu Thr Leu Thr Asn Phe Asn Phe Thr His Trp Gln Asn Gly
225     230     235
His Val Glu Glu Gln Ile His Leu Pro Asp Ala Glu Ala Leu Tyr Gln
245     250     255
Leu Met Gln Ala Arg Phe Gly Leu Gly Val Asp Asp Pro Lys His Gly
260     265     270
Phe Thr Leu Ala Glu Leu Thr Ala Val Met Ala Gly Phe Asp Thr His
275     280     285
Pro Gln Ala Gly Glu
290

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<210> 8716

<211> 704

<212> PRT

<213> Enterobacter cloacae

<400> 8716

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Gly Asn Ile Met Pro Arg Pro Ile Pro Leu Glu Arg Tyr Arg Asn Ile
1      5      10      15
Gly Ile Ser Ala His Ile Asp Ala Gly Lys Thr Thr Thr Thr Glu Arg
20      25      30
Ile Leu Phe Tyr Thr Gly Met Ser His Lys Leu Gly Glu Val His Asp
35      40      45
Gly Ala Ala Thr Thr Asp Trp Met Ala Gln Glu Gln Glu Arg Gly Ile
50      55      60
Thr Ile Thr Ser Ala Ala Val Ser Cys Phe Trp Pro Gly Met Asp Arg
65      70      75      80

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Gly Phe Glu Pro His Arg Ile Asn Ile Ile Asp Thr Pro Gly His Val
 85 90 95
 Asp Phe Thr Ile Glu Val Glu Arg Ser Met Arg Val Leu Asp Gly Ala
 100 105 110
 Val Met Val Tyr Asp Ser Val Gly Gly Val Gln Pro Gln Ser Glu Thr
 115 120 125
 Val Trp Arg Gln Ala Asn Lys Tyr His Val Pro Arg Leu Ala Phe Val
 130 135 140
 Asn Lys Met Asp Arg Pro Gly Ala Asp Phe Phe Arg Val Val Arg Met
 145 150 155 160
 Met Gln Glu Arg Leu Lys Ala Asn Pro Val Pro Ile Val Ile Pro Val
 165 170 175
 Gly Ala Glu Glu His Phe Thr Gly Val Val Asp Leu Ile Lys Met Arg
 180 185 190
 Thr Ile Leu Trp Asp Asp Ala Thr Gln Gly Met Ala Phe Ser Tyr Ala
 195 200 205
 Pro Val Pro Asp Asp Leu Leu Ser Thr Ala Gln Thr Trp Arg Glu Lys
 210 215 220
 Met Val Ser Ser Ala Ala Glu Ala Ser Asp Glu Leu Met Asp Lys Tyr
 225 230 235 240
 Leu Glu Thr Gly Glu Leu Asp Glu Ala Glu Ile Ile Lys Gly Leu Arg
 245 250 255
 Ile Arg Thr Ile Ser Gly Glu Ile Gln Pro Met Leu Cys Gly Ser Ala
 260 265 270
 Phe Lys Asn Lys Gly Val Gln Arg Met Leu Asp Ala Val Ile Glu Leu
 275 280 285
 Met Pro Ser Pro Leu Asp Val Pro Ala Ile Asp Gly Val Asp Glu Asp
 290 295 300
 Gly Gln His Ala Glu Arg His Pro Ser Asp Asp Glu Pro Phe Ser Ala
 305 310 315 320
 Leu Ala Phe Lys Leu Met Ser Asp Pro Tyr Val Gly Gln Leu Thr Phe
 325 330 335
 Ile Arg Val Tyr Ser Gly Ile Leu Arg Lys Gly Asp Ala Val Tyr Asn
 340 345 350
 Pro Val Lys Gly Lys Lys Glu Arg Ile Gly Arg Ile Val Leu Met His
 355 360 365
 Ala Asn Asp Arg His Glu Val Asp Glu Leu Arg Ala Gly Asp Ile Ala
 370 375 380
 Ala Cys Val Gly Leu Lys Asp Val Thr Thr Gly Asp Thr Leu Thr Asp
 385 390 395 400
 Pro Asn Ala Val Ile Thr Leu Glu Arg Met Glu Phe Pro Asp Pro Val
 405 410 415
 Ile Ser Leu Ala Ile Glu Pro Lys Thr Lys Ala Asp Gln Glu Lys Met
 420 425 430
 Gly Ile Ala Leu Gln Arg Leu Ala Ala Glu Asp Pro Ser Phe Arg Leu
 435 440 445
 His Thr Asp Glu Glu Ser Gly Gln Thr Ile Ile Ser Gly Met Gly Glu
 450 455 460
 Leu His Leu Glu Ile Ile Val Asp Arg Met Lys Arg Glu Phe Gly Val
 465 470 475 480
 Glu Ala Asn Ile Gly Arg Pro Gln Val Thr Tyr Arg Glu Thr Leu Arg
 485 490 495
 Lys Ala Val Lys Asp Ile Glu Gly Lys Phe Val Arg Gln Ser Gly Gly
 500 505 510
 Lys Gly Gln Tyr Gly His Val Val Leu Ser Leu Glu Pro Leu Ala Ala
 515 520 525
 Gly Ser Gly Phe Val Phe Glu Asp Ala Thr Lys Gly Gly Val Val Pro
 530 535 540
 Arg Glu Tyr Ile Pro Ser Val Glu Lys Gly Leu Arg Glu Ala Met Asn
 545 550 555 560
 Thr Gly Val Leu Ala Gly Tyr Pro Val Val Asp Val Lys Ala Thr Leu

565 570 575
 Thr Phe Gly Ser Tyr His Asp Val Asp Ser Ser Glu Met Ala Phe Arg
 580 585 590
 Met Ala Ala Ile Leu Gly Phe Lys Glu Gly Ala Arg Arg Ala Asp Pro
 595 600 605
 Val Ile Leu Glu Pro Val Met His Val Glu Val Glu Thr Pro Glu Glu
 610 615 620
 Tyr Ala Gly Asn Ile Met Gly Asp Leu Ser Ser Arg Arg Gly Leu Val
 625 630 635 640
 Gln Gly Met Ala Glu Gln Tyr Gly Ser Gln Ile Ile Arg Ala Asp Val
 645 650 655
 Pro Leu Ala Glu Met Phe Gly Tyr Ala Thr Thr Leu Arg Ser Met Ser
 660 665 670
 Gln Gly Arg Ala Thr Tyr Thr Met Glu Phe His His Phe Ala Glu Ala
 675 680 685
 Pro Arg Asn Val Ala Glu Glu Ile Ile Ala Lys Arg Val Lys Ser
 690 695 700

<210> 8717

<211> 358

<212> PRT

<213> *Enterobacter cloacae*

<400> 8717

Lys Gly Ile Val Met Ser Leu Arg His Leu Cys Ser Pro Arg Leu Arg
 1 5 10 15
 Gly Ser Leu Leu Leu Gly Ser Leu Leu Phe Ala Gly Thr Phe Gln Val
 20 25 30
 His Ala Ala Glu Glu Met Leu Arg Lys Ala Val Gly Lys Gly Ala Tyr
 35 40 45
 Glu Met Ala Val Ser Gln Gln Glu Asn Ala Leu Trp Val Ala Thr Ser
 50 55 60
 Gln Ser Arg Lys Thr Asp Lys Gly Gly Val Val Tyr Arg Leu Asp Pro
 65 70 75 80
 Val Thr Leu Glu Val Thr Gln Ala Ile His Asn Asp Leu Lys Pro Phe
 85 90 95
 Gly Ala Thr Ile Asp Asn Ala Thr Gln Thr Leu Trp Phe Gly Asn Thr
 100 105 110
 Val Asn Ser Ala Val Thr Ala Ile Asp Ala Lys Thr Ser Glu Val Lys
 115 120 125
 Gly Arg Leu Val Leu Asp Asp Arg Lys Arg Ser Asp Thr Val Lys Pro
 130 135 140
 Leu Gln Pro Arg Gln Leu Val Ala Asp Asp Thr Thr Asn Thr Val Tyr
 145 150 155 160
 Ile Thr Gly Ile Gly Lys Glu Ser Val Ile Trp Val Val Asp Gly Ala
 165 170 175
 Thr Leu Lys Leu Lys Asp Thr Ile Thr Asn Thr Gly Thr Phe Ser Thr
 180 185 190
 Gly Leu Ala Leu Asp Ala Lys Ala Lys Arg Leu Tyr Thr Thr Asn Ala
 195 200 205 210
 Asp Gly Glu Leu Val Thr Ile Asp Thr Ala Thr Asn Lys Ile Leu Ser
 215 220 225
 Arg Lys Lys Val Gln Asp Asp Gly Lys Glu His Phe Tyr Leu Asn Leu
 230 235 240
 Ser Leu Asp Thr Val Gly Gln Arg Ala Phe Val Thr Asp Ser Lys Gln
 245 250 255
 Pro Glu Val Leu Val Val Asn Leu Lys Asp Gly Ser Val Met Gln Lys
 260 265 270
 Ile Ala Ala Pro Glu Ser Leu Ala Val Leu Phe Asn Pro Ala Arg Asn
 275 280 285
 Glu Ala Tyr Val Thr His Arg Glu Ala Gly Lys Val Ser Val Ile Asp

290 295 300
 Ala Lys Thr Tyr Lys Val Thr Lys Thr Tyr Asp Thr Pro Val Tyr Pro
 305 310 315 320
 Asn Ser Leu Ala Leu Ser Ala Asp Gly Lys Thr Leu Tyr Val Thr Val
 325 330 335
 Lys Gln Lys Ser Thr Arg Gln Gln Glu Ala Thr Gln Pro Asp Asp Val
 340 345 350
 Ile Arg Ile Ala Leu
 355

<210> 8718

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 8718

Phe Asp Pro Phe Ser Ser Ala Phe Ala Gly Gly Thr Val Lys Ile Asn
 1 5 10 15
 Ile Ile Gly Thr Ser Gly Ser Gly Lys Ser Thr Phe Gly Arg Arg Ile
 20 25 30
 Ala Glu Ala Leu Ala Ile Pro Tyr Ile Glu Met Asp Arg Leu Tyr Trp
 35 40 45
 Arg Ala Asn Trp Gln Gly Thr Pro Asp Asp Glu Phe Leu Ala Thr Leu
 50 55 60
 Glu Lys Ala Leu Ala Ala Ser Pro Asp Trp Val Leu Asp Gly Asn Tyr
 65 70 75 80
 Asn Arg Thr Arg Asp Val Lys Trp Arg Asp Val Asp Leu Val Val Trp
 85 90 95
 Ile Asp Arg Gly Phe Ile Arg Trp Leu Trp Gln Ala Val Thr Arg Ala
 100 105 110
 Ser Arg Arg Ala Trp His Lys Gln Glu Leu Trp Pro Gly Thr Gly Asn
 115 120 125
 Arg Glu Ser Phe Arg Arg Ser Phe Leu Ser Lys Asp Ser Ile Ile Ile
 130 135 140
 Trp Thr Ile Lys Thr Trp Arg Ser Asn Arg Lys Arg Tyr Gln Ala Asp
 145 150 155 160
 Met Gln Asn Pro Gln Tyr Lys His Ile Arg Phe Leu Arg Ile Thr Arg
 165 170 175
 Arg Gln Asp Ala Glu Arg Leu Ile Ala Ser Leu Lys Ser Arg Arg
 180 185 190

<210> 8719

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 8719

Gln Gly Gly Tyr Arg Met Ser Phe Ser Glu Gln Leu Ile Ala Trp Arg
 1 5 10 15
 Arg Glu Leu His Gln Asn Pro Glu Leu Ser Gly Gln Glu Val Glu Thr
 20 25 30
 Thr Ala Arg Leu Arg Glu Trp Leu Thr Ala Ala Gly Ile Ala Pro Leu
 35 40 45
 Pro Tyr Asp Leu Gln Thr Gly Leu Val Ala Glu Ile Gly Thr Gly Asn
 50 55 60
 Ala Leu Val Ala Leu Arg Ala Asp Ile Asp Ala Leu Pro Ile Asp Glu
 65 70 75 80
 Arg Ser Gly Val Pro Phe Ser Ser Arg Arg Ala Gly Val Met His Ala
 85 90 95
 Cys Gly His Asp Ile His Thr Ser Val Ile Leu Gly Ala Ala Leu Lys
 100 105 110

Leu Lys Glu Arg Glu Ala Ser Leu Asn Gly Arg Val Arg Ile Leu Phe
 115 120 125
 Gln Pro Ala Glu Glu Asn Phe Gly Gly Ala Lys Ser Met Val Arg Ala
 130 135 140
 Gly Ala Leu Arg Asp Val Arg Ala Ile Phe Gly Met His Asn Glu Pro
 145 150 155 160
 Ser Leu Pro Val Gly Glu Phe Ala Thr Arg Gly Gly Pro Phe Tyr Ala
 165 170 175
 Asn Val Asp Arg Phe Val Ile His Val Thr Gly Lys Gly Ala His Ala
 180 185 190
 Ala Arg Pro His Glu Gly Asn Asp Ala Ile Val Leu Ala Ser Gln Leu
 195 200 205
 Val Thr Ala Leu Gln Ser Val Ala Ser Arg Asn Val Asn Thr Leu Asp
 210 215 220
 Ser Val Val Leu Ser Val Thr Arg Ile Ala Gly Gly Asn Thr Trp Asn
 225 230 235 240
 Val Leu Pro Glu Ser Val Glu Leu Glu Gly Thr Leu Arg Thr His Arg
 245 250 255
 Thr Glu Val Gln Gln Asn Val Lys Ala Arg Val Gly Glu Ile Ala Ala
 260 265 270
 Gly Phe Ala Ser Ala Phe Ser Ala Gln Ile Asn Ile Thr Trp Tyr Ala
 275 280 285
 Gly Pro Thr Ala Leu Val Asn Asp Glu His Trp Ala Val Phe Ala Thr
 290 295 300
 Ser Val Ala Arg Glu Ala Gly Tyr Glu Thr Arg His Ala Glu Leu His
 305 310 315 320
 Met Gly Gly Glu Asp Phe Ala Val Tyr Leu Gln Asn Ile Pro Gly Ala
 325 330 335
 Phe Val Ser Ile Gly Ser Asn Ser Pro Phe Gly Leu His His Pro Ala
 340 345 350
 Phe Asn Pro Asp Glu Ala Leu Ile Glu Pro Ala Ala Arg Tyr Phe Ala
 355 360 365
 Gln Leu Ala Glu Lys Ala Leu Gln His Phe
 370 375

<210> 8720

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 8720

Pro Gly Gly Ala Arg Phe Thr Gly Ala Trp Pro Val Pro His Arg Leu
 1 5 10 15
 Ser Arg His His Ala Ala Arg Lys Ser Gly Leu Arg Arg Ala Gln Lys
 20 25 30
 Ser Val His Thr Thr Ile Lys Glu Lys Asn Ala Met Gln Lys Ser Ser
 35 40 45
 Leu Ile Leu Ala Leu Ala Leu Ala Phe Thr Pro Ala Val Trp Ala Glu
 50 55 60
 Asn Val Asn Ile Asn Gly Thr Gly Val Ser Ile Glu Ala Asn Lys Thr
 65 70 75 80
 Pro Ile Asn Thr Ala Lys Asn Ser Asp Ala Ile Ala Gln Leu Pro Lys
 85 90 95
 Asp Tyr Arg Phe Ala Val Pro Gly Lys Phe Thr Val Ala Val Ala Gly
 100 105 110
 Leu Asn Gln Pro Pro Leu Thr Val Phe Ser Asp Asp Asn Lys Thr Leu
 115 120 125
 Leu Gly Ser Glu Val Asp Ile Ala Arg Leu Val Ala Asp Ser Leu Gly
 130 135 140
 Leu Glu Leu Asn Val Val Pro Thr Ser Trp Glu Asp Trp Pro Leu Gly
 145 150 155 160

Val Ala Ser Gly Lys Tyr Asp Ala Ala Ile Ser Asn Ile Thr Val Thr
 165 170 175
 Lys Ala Arg Lys Lys Glu Lys Phe Asp Phe Ala Thr Tyr Arg Lys Asp Ser
 180 185 190
 Leu Gly Phe Tyr Val Lys Ser Thr Ser Pro Ile Asn Ser Leu Val Lys
 195 200 205
 Ala Glu Asp Ile Ala Gly Leu Arg Ile Ile Val Gly Ser Gly Thr Asn
 210 215 220
 Gln Glu Ala Ile Leu Leu Ala Trp Asn Glu Glu Asn Leu Lys Lys Gly
 225 230 235 240
 Leu Lys Pro Phe Thr Pro Ile Tyr Thr Lys Asp Asp Ala Ala Gln Thr
 245 250 255
 Leu Ala Leu Gln Ser Gly Arg Ala Asp Ala Tyr Phe Gly Pro Asn Val
 260 265 270
 Ile Gly Ala Trp Lys Ala Ala Leu Asn Gly Lys Thr Lys Leu Val Gly
 275 280 285
 Ser Val Asp Gly Gly Trp Pro Lys Ala Ala His Ile Ala Val Thr Leu
 290 295 300
 Lys Lys Gly Ser Gly Leu Ala Glu Pro Val Gln Thr Ala Leu Asn Gly
 305 310 315 320
 Ala Ile Lys Asn Gly Asp Tyr Asp Lys Val Leu Asn Arg Trp Gly Glu
 325 330 335
 Gly Val Glu Arg Ile Pro Ser Ser Glu Val Asn Pro Ala Gly Leu Gly
 340 345 350

Asp

<210> 8721

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 8721

Gly Gly Ala Met Arg Glu Gln Phe Arg Asp Val Ser Pro Glu Asp Thr
 1 5 10 15
 Asp Leu Gln Pro Ile Ile Glu Gly Leu Phe Gly Glu Tyr Ala Ala Arg
 20 25 30
 Tyr Gly Asp Tyr Phe Ser Lys Asp Ala Glu Val Glu Leu Thr Glu Trp
 35 40 45
 Tyr Leu Ala Pro Gln Gly Leu Phe Ile Val Leu Glu Arg Asp Gly Glu
 50 55 60
 Ile Ile Ala Thr Gly Ala Tyr Lys Pro Phe Asp Glu His Thr Ala Glu
 65 70 75 80
 Ile Lys Arg Ile Trp Thr Asn Lys Thr Leu Arg Gln Gln Gly Leu Ala
 85 90 95
 Ala Arg Val Val Gln Glu Leu Glu Arg Arg Ala Val Leu Ala Gly Tyr
 100 105 110
 Ser His Ile Tyr Leu Thr Thr Gly Phe Arg Gln Pro Glu Ala Val Arg
 115 120 125
 Leu Tyr Leu Ser Gln Gly Tyr Gln Pro Gln Phe Asp Leu Asn Arg Asp
 130 135 140
 Pro Glu Glu Tyr Ser Gln Pro Pro Phe Asp Gly Arg Leu Arg Phe Thr
 145 150 155 160
 Lys Thr Leu Ile Arg Glu Ala Leu Ser Lys Thr Ala
 165 170

<210> 8722

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 8722

Gly Ala Thr Met Ser Asn Val Glu Thr Ile Lys Val Val Pro Ala Arg
 1 5 10 15
 Tyr Pro Leu Arg Ala Ala Gly Ala Val Val Ala Leu Phe Val Leu Ala
 20 25 30
 Val Val Ile Gln Ser Val Ala Phe Asn Pro Arg Trp Glu Trp Ala Val
 35 40 45
 Phe Ala Arg Trp Phe Phe Asp Pro Val Ile Leu Glu Gly Val Gly Gln
 50 55 60
 Thr Leu Leu Leu Thr Leu Ile Ser Thr Val Leu Ser Val Val Ile Gly
 65 70 75 80
 Gly Met Leu Ala Leu Ala Arg Leu Ser Ser Ser Trp Leu Leu Ser Ser
 85 90 95
 Leu Ala Trp Gly Tyr Ile Trp Leu Phe Arg Ser Leu Pro Leu Ile Val
 100 105 110
 Val Leu Ile Ile Leu Tyr Asn Phe Ser Tyr Leu Tyr Asp Thr Leu Ser
 115 120 125
 Leu Gly Val Pro Phe Thr Gly Ile Thr Trp Gly Ser Phe Glu Thr Ile
 130 135 140
 Asn Val Leu Gly Gln Phe Ser Thr Ala Ile Val Gly Leu Thr Leu Val
 145 150 155 160
 Gln Ser Ala Tyr Thr Ala Glu Ile Ile Arg Gly Gly Phe Leu Gly Val
 165 170 175
 Asp His Gly Gln Tyr Glu Ala Ala Ala Leu Gly Leu Pro Ala Trp
 180 185 190
 Arg Arg Thr Val Arg Ile Ile Leu Pro Gln Ala Leu Arg Thr Ile Leu
 195 200 205
 Pro Ser Gly Phe Asn Glu Ile Ile Ser Leu Ala Lys Gly Thr Ala Met
 210 215 220
 Val Tyr Val Leu Ala Met Pro Glu Leu Phe Tyr Thr Ile Gln Met Ile
 225 230 235 240
 Tyr Asn Arg Thr Gln Asp Val Ile Pro Leu Leu Met Val Gly Ala Val
 245 250 255
 Trp Tyr Leu Val Ile Thr Thr Val Leu Ser Ala Ile Gln His Val Ile
 260 265 270
 Glu Arg Gly Leu Ala Arg Ser Glu Arg Arg Ser Ala Val Asn Gln Asn
 275 280 285
 Arg Ala Ala Ser Arg Ser Arg Ser Val Thr Thr Ser Pro Ala Gln Glu
 290 295 300
 Pro Val His Ala Ser Leu Ser
 305 310

<210> 8723

<211> 209

<212> PRT

<213> *Enterobacter cloacae*

<400> 8723

Gly Gly Asn Met Ile Lys Leu Tyr Gly Val Pro Gly Trp Gly Ser Ala
 1 5 10 15
 Ile Ser Glu Val Met Leu Thr Leu Ala Asp Ile Pro Tyr Gln Phe Val
 20 25 30
 Asn Val Asp Gly Phe Asp Gln Pro Gly Pro Gln Arg Glu Leu Leu Leu
 35 40 45
 Lys Leu Asn Pro Leu Cys Gln Val Pro Thr Leu Glu Leu Glu Asn Gly
 50 55 60
 Ala Ile Val Thr Glu Thr Ala Ala Ile Ala Leu Met Val Leu Asp Arg
 65 70 75 80
 Arg Pro Asp Leu Ala Pro Pro Val Gly Gln Ala Glu Arg Gln Gln Phe
 85 90 95
 Gln Arg Leu Leu Ile Trp Phe Val Ala Asn Val Tyr Pro Thr Phe Thr

```

          100          105          110
Tyr Ala Asp Tyr Pro Glu Arg Trp Val Pro Asp Ala Pro Glu Gln Leu
          115          120          125
Lys Lys Asn Cys Ile Glu Tyr Arg Lys Ser Leu Tyr Leu Trp Phe Asp
          130          135          140
Ser Gln Leu Ser Ala Ser Pro Phe Ala Phe Gly Lys Gln Leu Thr Leu
          145          150          155          160
Leu Asp Val Tyr Ile Ala Val Ala Arg Thr Trp Gly Pro Arg His Glu
          165          170          175
Trp Phe Ala Thr Asn Thr Pro Asn Phe Thr Ala Val Ala Asp Ala Val
          180          185          190
Cys Ala Leu Pro Glu Leu His Lys Val Leu Lys Ala Asn Asp Ile Ile
          195          200          205

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<210> 8724

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 8724

```

Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser
1          5          10          15
Asp Phe Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
          20          25          30
Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
          35          40          45
Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
          50          55          60
Thr Ser Lys Gly Asp Ser Arg Leu Ile Arg Arg Pro Ser Val Ala Ile
          65          70          75          80
Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
          85          90          95
Tyr Ala

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<210> 8725

<211> 465

<212> PRT

<213> Enterobacter cloacae

<400> 8725

```

Ser Met Thr Leu Gly Ala Ser Gly Lys Glu Leu Leu Trp Ile Ile Asp
1          5          10          15
Ile Tyr Ser Leu Val Met Ala Gly Met Val Leu Pro Met Gly Ala Met
          20          25          30
Gly Asp Arg Ile Gly Phe Lys Arg Leu Leu Met Ile Gly Ser Val Leu
          35          40          45
Phe Gly Leu Ser Ser Leu Ala Ala Ala Phe Ala Pro Ser Ala Gly Trp
          50          55          60
Leu Ile Ala Ala Arg Ala Ser Leu Ala Ile Gly Ala Ala Met Ile Ile
          65          70          75          80
Pro Ala Thr Leu Ala Gly Ile Arg Thr Leu Phe Ile Asp Ala Arg His
          85          90          95
Arg Asn Ile Ala Leu Gly Val Trp Ala Ala Val Gly Ser Gly Gly Ala
          100          105          110
Ala Phe Gly Pro Leu Ile Gly Gly Met Leu Leu Glu His Phe Tyr Trp
          115          120          125
Gly Ser Val Phe Leu Ile Asn Val Pro Ile Val Leu Met Val Val Ser
          130          135          140

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Leu Ala Ala Arg Phe Val Pro Ala Gln Gln Gly Arg Pro Glu Gln Pro
 145 150 155 160
 Leu Asn Ile Ser His Ala Ile Met Leu Ile Val Ala Ile Leu Leu Leu
 165 170 175
 Val Tyr Ser Ala Lys Thr Ala Leu Lys Gly Val Leu Ser Pro Trp Met
 180 185 190
 Val Thr Ile Thr Leu Leu Thr Gly Ala Val Met Leu Phe Ile Phe Val
 195 200 205
 Arg Ile Gln Leu Arg Ala Arg Val Pro Met Ile Asp Met Arg Leu Phe
 210 215 220
 Cys His Arg Ile Ile Leu Ser Gly Val Val Met Ala Met Thr Ala Met
 225 230 235 240
 Ile Ala Leu Val Gly Phe Glu Leu Leu Met Ala Gln Glu Leu Gln Phe
 245 250 255
 Val His Gly Phe Thr Pro Phe Glu Ala Gly Ile Phe Met Leu Pro Val
 260 265 270
 Met Val Ala Ser Gly Phe Ser Gly Pro Ile Ala Gly Val Leu Val Gly
 275 280 285
 Arg Leu Gly Leu Arg Ile Val Ala Ala Gly Gly Met Gly Leu Ser Ala
 290 295 300
 Val Ser Phe Ile Gly Leu Ser Met Leu Asp Phe Ser Thr Gln Gln Trp
 305 310 315 320
 Gln Ala Trp Ser Leu Met Val Leu Leu Gly Phe Ser Ala Ala Ser Ala
 325 330 335
 Leu Leu Thr Ser Thr Ser Ala Ile Met Ala Ala Pro Lys Glu Lys
 340 345 350
 Ala Ala Ala Ala Gly Ala Ile Glu Thr Met Ser Tyr Glu Leu Gly Ala
 355 360 365
 Gly Leu Gly Ile Ala Ile Phe Gly Leu Leu Leu Thr Arg Ser Phe Ser
 370 375 380
 Ala Ser Ile Val Leu Pro Gln Gly Leu Ser Ala Ser Leu Thr Asp Lys
 385 390 395 400
 Ala Ser Ser Ser Ile Gly Glu Ala Met Lys Val Ala Gln Glu Leu Thr
 405 410 415
 Pro Ser Leu Ala Glu Pro Val Met Thr Ala Ala Lys Thr Ala Phe Ile
 420 425 430
 Thr Ser His Ser Val Ala Leu Gly Ser Ala Gly Gly Met Leu Leu Ile
 435 440 445
 Leu Ala Val Gly Ile Trp Phe Ser Leu Ala Lys Val Gly Gly Gln Gln
 450 455 460

465

<210> 8726

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 8726

Gln Ile Leu Glu Leu Val Gly Gln Thr Tyr Ser His Asp Val Val Gly
 1 5 10 15
 Ser His Phe Gly Ile Phe Gly Glu Leu Ala Val Ile His Glu Val Asp
 20 25 30
 Phe Val Ile Asn Val Gly Gly His Val Phe Val Glu Val Val Ala Arg
 35 40 45
 Ala Asn Val Asn Val Phe Asn Gln Ile Leu Val Ala Ile Arg Thr Asp
 50 55 60
 Val Ser Thr Ser Arg Cys Gln
 65 70

<210> 8727

<211> 262
 <212> PRT
 <213> Enterobacter cloacae

<400> 8727

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Gln Arg Gln Ser Ile Ile Lys Ile Ser Lys Leu Val Asn Asn Ala Arg
1      5      10      15
His Val Asn Cys Val Glu Gly Asn Thr Thr Leu Tyr Ala Leu Pro Arg
      20      25      30
Ala Glu Ile Val Glu Arg Trp Arg Glu Gln Thr Thr Asp Asp Phe Arg
      35      40      45
Phe Cys Phe Lys Phe Pro Ala Thr Ile Ser His Asn Ala Ala Leu Arg
      50      55      60
Asn Cys Asp Asp Leu Thr His Glu Phe Phe Thr Arg Met Ser Pro Leu
      65      70      75
Ala Asn Arg Ile Gly Gln Tyr Trp Leu Gln Leu Pro Ala Ala Phe Gly
      85      90      95
Pro Arg Asp Leu Pro Ala Leu Trp Gln Phe Leu Glu Ala Leu Pro Leu
      100     105     110
Asp Phe Thr Tyr Gly Val Glu Val Arg His Pro Glu Phe Phe Ala Lys
      115     120     125
Gly Asp Ala Glu Lys Ala Leu Asn Arg Gly Leu His Glu Arg Ser Val
      130     135     140
Asn Arg Val Ile Leu Asp Ser Arg Pro Val His Ser Ala Ile Pro His
      145     150     155
Ser Glu Ala Val Val Asp Ala Gln Arg Lys Lys Pro Lys Val Pro Val
      165     170     175
His Ala Ile Val Thr Ala Gln Asn Pro Met Val Arg Phe Ile Gly Ser
      180     185     190
Asp Asn Met Gln Gln Asn Glu Glu Met Phe Ala Val Trp Leu Gln Thr
      195     200     205
Leu Ala Lys Trp Glu His Thr Thr Thr Pro Tyr Leu Phe Leu His Thr
      210     215     220
Pro Asp Ile Ala Gln Ala Pro Glu Leu Val Asp Ala Leu Trp Gln Ala
      225     230     235
Leu Gln Gln Ala Val Pro Ser Val Gly Pro Ala Pro Ser Ile Pro Gln
      245     250     255
Gln Ser Ser Leu Phe
      260

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<210> 8728
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 8728

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Arg Arg Ala Ile Cys Gln Lys Gln Gly Val Ser Met Val Ser Ala Leu
1      5      10      15
Tyr Ala Val Leu Gly Ala Leu Leu Leu Ile Lys Phe Ser Phe Asp Val
      20      25      30
Val Arg Leu Arg Met Gln Tyr Arg Val Ser Tyr Gly Asp Gly Gly Phe
      35      40      45
Ser Glu Leu Gln Ser Ala Ile Arg Ile His Gly Asn Ala Val Glu Tyr
      50      55      60
Ile Pro Val Ala Leu Ile Leu Leu Leu Met Glu Met Asp Gly Ala
      65      70      75
Glu Thr Trp Met Val His Val Cys Gly Leu Leu Ile Ala Gly Arg
      85      90      95
Leu Met His Tyr Tyr Gly Phe His His Arg Leu Ile Arg Trp Arg Arg
      100     105     110
Ser Gly Met Ser Ala Thr Trp Cys Ser Leu Leu Leu Met Val Leu Ala

```

115 120 125
 Asn Leu Trp Tyr Met Pro Trp Glu Leu Val Phe Ser Ser Phe His
 130 135 140

<210> 8729

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 8729

Leu Trp Phe Ser Gly Gly Ala Glu Ser Arg Arg Arg Ser Met Ile Glu
 1 5 10 15
 Phe Gly Asn Phe Tyr Gln Leu Ile Ala Lys Asn His Leu Ser His Trp
 20 25 30
 Leu Glu Thr Leu Pro Ala Gln Ile Ala Thr Trp Gln Arg Asp Gln Gln
 35 40 45
 His Gly Leu Leu Lys Gln Trp Ser Asn Ala Val Glu Phe Leu Pro Glu
 50 55 60
 Leu Thr Pro His Arg Leu Asp Leu Leu His Ser Val Thr Ala Glu Ser
 65 70 75 80
 Glu Glu Pro Leu Pro Ala Gly Gln Ile Asn Arg Ile Glu Thr Leu Met
 85 90 95
 Arg Asn Leu Met Pro Trp Arg Lys Gly Pro Phe Ser Leu Tyr Gly Val
 100 105 110
 Asn Ile Asn Thr Glu Trp Arg Ser Asp Trp Lys Trp Asp Arg Val Leu
 115 120 125
 Pro His Leu Ser Asp Leu Thr Gly Arg Thr Ile Leu Asp Val Gly Cys
 130 135 140
 Gly Ser Gly Tyr His Met Trp Arg Met Ile Gly Ala Gly Ala His Leu
 145 150 155 160
 Val Val Gly Ile Asp Pro Met Gln Leu Phe Leu Cys Gln Phe Glu Ala
 165 170 175
 Val Arg Lys Leu Leu Gly Asn Asp Gln Arg Ala His Leu Leu Pro Leu
 180 185 190
 Gly Ile Glu Gln Leu Pro Ala Leu Lys Ala Phe Asp Thr Val Phe Ser
 195 200 205
 Met Gly Val Leu Tyr His Arg Arg Ser Pro Leu Glu His Leu Trp Gln
 210 215 220
 Leu Lys Asp Gln Leu Val Ser Gly Gly Glu Leu Val Leu Glu Thr Leu
 225 230 235 240
 Val Ile Glu Gly Asp Glu His Ala Val Leu Val Pro Gly Asp Arg Tyr
 245 250 255
 Ala Gln Met Arg Asn Val Tyr Phe Ile Pro Ser Ala Leu Ala Leu Lys
 260 265 270
 Asn Trp Leu Glu Lys Cys Gly Phe Val Asp Val Arg Ile Ala Asp Val
 275 280 285
 Cys Val Thr Ser Ile Glu Glu Gln Arg Arg Thr Asp Trp Met Ile Thr
 290 295 300
 Glu Ser Leu Glu Gln Phe Leu Asp Pro Asp Asp His Ser Lys Thr Ile
 305 310 315 320
 Glu Gly Tyr Pro Ala Pro Met Arg Ala Val Leu Ile Ala Thr Lys Pro
 325 330 335

<210> 8730

<211> 581

<212> PRT

<213> Enterobacter cloacae

<400> 8730

Gly Ile Gln Val Asn Ile Gln Ala Leu Leu Ser Glu Lys Val Ser Gln
 1 5 10 15
 Ala Leu Ile Ala Ala Gly Ala Pro Ala Asp Cys Glu Pro Gln Val Arg
 20 25 30
 Gln Ser Ala Lys Val Gln Phe Gly Asp Tyr Gln Ala Asn Gly Val Met
 35 40 45
 Ala Val Ala Lys Lys Leu Gly Met Pro Pro Arg Gln Leu Ala Glu Gln
 50 55 60
 Val Leu Thr His Leu Asp Leu Thr Gly Ile Ala Ser Lys Thr Glu Ile
 65 70 75 80
 Ala Gly Pro Gly Phe Ile Asn Ile Phe Leu Glu Pro Ala Phe Leu Ala
 85 90 95
 Ser His Val Asp Ala Ala Leu Lys Ser Asp Arg Leu Gly Val Ala Gln
 100 105 110
 Pro Glu Ala Gln Thr Val Val Val Asp Tyr Ser Ala Pro Asn Val Ala
 115 120 125
 Lys Glu Met His Val Gly His Leu Arg Ser Thr Ile Ile Gly Asp Ala
 130 135 140
 Ala Val Arg Thr Leu Glu Phe Leu Gly His Lys Val Ile Arg Ala Asn
 145 150 155 160
 His Val Gly Asp Trp Gly Thr Gln Phe Gly Met Leu Ile Ala Tyr Leu
 165 170 175
 Glu Lys Gln Gln Gln Glu Asn Ala Gly Glu Met Ala Leu Ala Asp Leu
 180 185 190
 Glu Gly Phe Tyr Arg Glu Ala Lys Lys His Tyr Asp Glu Asp Glu Ala
 195 200 205
 Phe Ala Glu Arg Ala Arg Ser Tyr Val Val Lys Leu Gln Gly Gly Asp
 210 215 220
 Pro Tyr Phe Leu Glu Met Trp Arg Lys Leu Val Asp Ile Thr Met Ser
 225 230 235 240
 Gln Asn Gln Leu Thr Tyr Asn Arg Leu Asn Val Thr Leu Thr Arg Asp
 245 250 255
 Asp Val Met Gly Glu Ser Leu Tyr Asn Pro Met Leu Pro Gly Ile Val
 260 265 270
 Ala Asp Leu Lys Ala Lys Asn Leu Ala Val Glu Ser Glu Gly Ala Thr
 275 280 285
 Val Val Phe Leu Asp Glu Tyr Lys Asn Lys Glu Gly Glu Pro Met Gly
 290 295 300
 Val Ile Val Gln Lys Lys Asp Gly Gly Tyr Leu Tyr Thr Thr Thr Asp
 305 310 315 320
 Ile Ala Cys Ala Lys Tyr Arg Tyr Glu Thr Leu His Ala Asp Arg Val
 325 330 335
 Leu Tyr Tyr Ile Asp Ser Arg Gln His Gln His Leu Met Gln Ala Trp
 340 345 350
 Thr Ile Val Arg Lys Ala Gly Tyr Val Pro Asp Ser Val Pro Leu Glu
 355 360 365
 His His Met Phe Gly Met Met Leu Gly Lys Asp Gly Lys Pro Phe Lys
 370 375 380
 Thr Arg Ala Gly Gly Thr Val Lys Leu Ser Asp Leu Leu Asp Glu Ala
 385 390 395 400
 Leu Glu Arg Ala Arg Arg Leu Val Ala Glu Lys Asn Pro Asp Met Pro
 405 410 415
 Ala Asp Glu Leu Glu Lys Leu Ala Asn Ala Val Gly Ile Gly Ala Val
 420 425 430
 Lys Tyr Ala Asp Leu Ser Lys Asn Arg Thr Thr Asp Tyr Ile Phe Asp
 435 440 445
 Trp Asp Asn Met Leu Ala Phe Glu Gly Asn Thr Ala Pro Tyr Met Gln
 450 455 460
 Tyr Ala Tyr Thr Arg Val Leu Ser Val Phe Arg Lys Ala Asn Ile Asp
 465 470 475 480
 Glu Ser Val Leu Ala Asn Ala Thr Val Ser Ile Thr Glu Asp Arg Glu

485 490 495
 Ala Gln Leu Ala Ala Arg Leu Leu Gln Phe Glu Glu Thr Leu Ser Val
 500 505 510
 Val Ala Arg Asp Gly Thr Pro His Val Met Cys Ala Tyr Leu Tyr Asp
 515 520 525
 Leu Ala Gly Leu Phe Ser Gly Phe Tyr Glu His Cys Pro Ile Leu Ser
 530 535 540
 Ala Glu Ser Glu Ala Val Arg His Ser Arg Leu Lys Leu Ala Gln Leu
 545 550 555 560
 Thr Ala Lys Thr Leu Lys Leu Gly Leu Asp Thr Leu Gly Ile Glu Thr
 565 570 575
 Val Glu Arg Met
 580

<210> 8731

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 8731

Ser His Ile Ala Leu Gly Arg Leu Glu Glu Ser Met Asp Arg Val Thr
 1 5 10 15
 Tyr Pro Thr Gly Val Glu Asn His Gly Gly Thr Leu Arg Ile Trp Phe
 20 25 30
 Asn Phe Lys Gly Lys Arg Val Arg Glu Ser Leu Gly Val Pro Asp Thr
 35 40 45
 Ala Lys Asn Arg Lys Ile Ala Gly Glu Leu Arg Thr Ser Val Cys Phe
 50 55 60
 Ala Ile Arg Thr Gly Thr Phe Glu Tyr Ala Ala Gln Phe Pro Asp Ser
 65 70 75 80
 Pro Asn Leu Lys Thr Phe Gly Val Gly Lys Lys Glu Ile Thr Val Ser
 85 90 95
 Glu Leu Ala Glu Lys Trp Leu Asp Leu Lys Arg Met Glu Ile Cys Ala
 100 105 110
 Asn Ala Leu Asn Arg Tyr Glu Ser Val Thr Arg Asn Met Val Pro Arg
 115 120 125
 Ile Gly Gly Asn Arg Leu Val Ser Ala Val Thr Lys Glu Glu Leu Leu
 130 135 140
 Tyr Ile Arg Lys Asp Leu Leu Thr Gly His Gln Met Pro Met Lys Gly
 145 150 155 160
 Lys Val Pro Ala Lys Gly Ile Ser Val Val Thr Val Asn Tyr Tyr Met
 165 170 175
 Thr Thr Ile Ala Gly Met Phe Gln Phe Ala Ala Asp His Gly Tyr Leu
 180 185 190
 Glu Ala Asn Pro Phe Asp Gly Ile Lys Pro Leu Lys Lys Ala Arg Ala
 195 200 205
 Glu Pro Asp Pro Leu Thr Arg Asp Glu Phe Ile Arg Leu Ile Asp Ala
 210 215 220
 Cys Arg His Gln Gln Thr Lys Asn Leu Trp Ser Leu Ala Val Tyr Thr
 225 230 235 240
 Gly Val Arg His Gly Glu Leu Thr Ser Leu Ala Trp Glu Asp Ile Asp
 245 250 255
 Leu Glu Ala Gly Thr Ile Thr Ile Arg Arg Asn Tyr Thr Lys Leu Gly
 260 265 270
 Glu Phe Thr Leu Pro Lys Thr Glu Ala Ser Thr Asn Arg Val Ile His
 275 280 285
 Leu Ile Gln Pro Ala Ile Ser Val Leu Arg Asn Gln Ala Glu Met Thr
 290 295 300
 Arg Phe Gly Lys Lys His Gln Ile Asp Val Gln Leu Arg Glu Tyr Gly
 305 310 315 320
 Arg Thr Glu Ser His Glu Cys Thr Phe Val Phe Asn Pro Gln Leu Val

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          325          330          335
Arg Arg Cys Gln Gln Val Gly Ile Ile Tyr Lys Val Asp Ser Ile Gly
          340          345          350
Asp Leu Trp Asp Ala Ala Met Lys Arg Ala Gly Ile Arg His Arg Lys
          355          360          365
Ala Tyr Gln Ser Arg His Thr Tyr Ala Cys Trp Ser Leu Ser Ala Gly
          370          375          380
Ala Asn Pro Ser Phe Ile Ala Ser Gln Met Gly His Ala Ser Ala Gln
          385          390          395          400
Met Val Phe Asn Val Tyr Gly Ala Trp Met Ala Asp Ser Ser Ser Glu
          405          410          415
Gln Ile Ala Met Leu Asn Gln Arg Leu Ala Asp Phe Ala Pro Gln Met
          420          425          430
Pro Gln Ser Ile His Ser Ser Ala Arg Ala Leu Leu Lys Ser Val Ser
          435          440          445

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<210> 8732

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 8732

```

Trp Cys Trp Leu Thr Phe Gly Ile Cys Arg Gly Ser Trp Phe Ser Pro
1          5          10          15
Ser Ile Ser Ala Gln Tyr Ala Pro Leu Phe Phe Pro Asp Phe Tyr Val
          20          25          30
Met Ser Asp Arg Asp Thr Leu Phe Ser Ala Pro Ile Ala Ser Leu Gly
          35          40          45
Asp Trp Thr Phe Asp Glu Arg Val Ala Glu Val Phe Pro Asp Met Ile
          50          55          60
Gln Arg Ser Val Pro Gly Tyr Ser Asn Ile Ile Ser Met Ile Gly Met
          65          70          75          80
Leu Ala Glu Arg Phe Val Gln Pro Gly Thr Gln Val Tyr Asp Leu Gly
          85          90          95
Cys Ser Leu Gly Ala Ala Thr Leu Ser Ile Arg Arg Asn Val His His
          100          105          110
Glu Gly Cys Lys Ile Val Ala Val Asp Asn Ser Pro Ala Met Val Glu
          115          120          125
Arg Cys Arg Arg His Ile Asp Ala Tyr Lys Ala Pro Thr Pro Val Glu
          130          135          140
Val Val Glu Gly Asp Ile Arg Asp Ile Asp Ile Gln Asn Ala Ser Met
          145          150          155          160
Val Val Leu Asn Phe Thr Leu Gln Phe Leu Val Pro Asp Asp Arg Gln
          165          170          175
Arg Leu Leu Asp Lys Ile Tyr Gln Gly Leu Asn Pro Gly Gly Ala Leu
          180          185          190
Val Leu Ser Glu Lys Phe Ser Phe Glu Asp Ala Ser Val Gly Glu Leu
          195          200          205
Leu Phe Asn Met His His Asp Phe Lys Arg Ala Asn Gly Tyr Ser Glu
          210          215          220
Leu Glu Ile Ser Gln Lys Arg Ser Met Leu Glu Asn Val Met Leu Thr
          225          230          235          240
Asp Ser Val Glu Thr His Lys Ala Arg Leu Arg Lys Ala Gly Phe Glu
          245          250          255
His Ser Glu Leu Trp Phe Gln Cys Phe Asn Phe Gly Ser Leu Val Ala
          260          265          270
Leu Lys Ala Gly Asp Ala Ala
          275          280

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<210> 8733

<211> 439

<212> PRT

<213> *Enterobacter cloacae*

<400> 8733

```

Ile Lys Ile Leu Tyr Ala Ser Thr Gln Glu Thr Leu Leu Ala His Arg
1      5      10      15
Gly Phe Phe Val Ala Ser Ala Asn Lys Leu Thr Leu Phe Ile Val Ile
      20      25      30
Phe Met Leu Ala Gly Ile Leu Ser Gly Ala Ala Ile His Glu Tyr Ala
      35      40      45
Ser Ser Asp Ala Ile Gln Ala Trp Ser Glu Asn Ile Thr Leu Leu Thr
      50      55      60
Asp Ile Phe Leu Arg Leu Ile Lys Met Val Ile Ala Pro Leu Val Phe
      65      70      75      80
Ser Thr Leu Thr Val Gly Ile Met Lys Leu Gly Glu Thr Ser Thr Ile
      85      90      95
Gly Arg Val Gly Gly Lys Ala Met Val Trp Phe Ile Ser Ser Ser Val
      100      105      110
Leu Ser Ile Leu Val Gly Leu Phe Ile Val Thr Leu Glu Gln Pro Gly
      115      120      125
Ser Gly Leu Asn Leu Ser Ile Pro Thr Glu Thr Val Asp Thr Gly Leu
      130      135      140
Ala Val Ser Gly Met Ser Leu Lys Ala Phe Leu Ser His Thr Ile Pro
      145      150      155      160
Thr Ser Ile Ala Gly Ala Met Ala Asn Asn Glu Ile Leu Gln Ile Val
      165      170      175
Val Phe Ser Met Phe Phe Gly Ile Gly Gly Ala Ser Leu Gly Gln Lys
      180      185      190
Phe Asn Ala Pro Leu Val Ala Ala Leu Asp Val Val Ser His Ile Met
      195      200      205
Leu Lys Val Thr Gly Tyr Val Met Tyr Val Ala Pro Leu Ala Ile Phe
      210      215      220
Ala Ala Ile Ser Ser Val Ile Ala Thr Gln Gly Leu Gly Ile Leu Leu
      225      230      235      240
Asn Tyr Ala Ser Phe Ile Gly Gly Tyr Tyr Val Ala Ile Leu Leu Thr
      245      250      255
Cys Leu Val Leu Leu Ala Val Gly Tyr Met Val Leu Lys Lys Glu Ile
      260      265      270
Phe Arg Leu Val Ala Met Leu Lys Asp Pro Val Leu Val Ala Phe Thr
      275      280      285
Thr Ser Ser Ser Glu Ala Ala Tyr Pro Lys Thr Leu Glu Gln Leu Ala
      290      295      300
Arg Phe Gly Cys Ser Arg Asn Ile Ala Ser Phe Val Leu Pro Ile Gly
      305      310      315      320
Tyr Ser Phe Asn Leu Val Gly Ser Met Val Tyr Cys Ser Phe Ala Ser
      325      330      335
Met Phe Ile Ala Gln Ala Tyr Asn Ile His Leu Ser Phe Thr Glu Val
      340      345      350
Thr Val Leu Met Leu Thr Leu Met Leu Ala Ser Lys Gly Ile Ala Gly
      355      360      365
Val Pro Arg Ser Ser Leu Val Val Leu Ala Ala Thr Ile Pro Ser Phe
      370      375      380
Asn Ile Pro Val Ala Gly Ile Leu Leu Leu Met Gly Ile Asp His Phe
      385      390      395      400
Leu Asp Met Gly Arg Ser Ala Ile Asn Val Leu Gly Asn Gly Ile Ala
      405      410      415
Thr Ala Met Leu Ser Gln Asn Glu Gly Ala Arg Glu Ala Glu Ala Glu
      420      425      430
Leu Val Glu Gln Glu Ala

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435

<210> 8734
 <211> 147
 <212> PRT
 <213> Enterobacter cloacae

<400> 8734
 Lys Glu Cys Val Met Ser Tyr Ser His Leu Leu Val Ser Val Ala Val
 1 5 10 15
 Ser Pro Glu Ser His Gln Leu Val Ala Arg Ala Val Ser Ile Ala Arg
 20 25 30
 Pro Asn Asn Ala Arg Ile Ser Leu Ile Thr Leu Ala Ala Glu Pro Glu
 35 40 45
 Met Tyr Asn Gln Leu Ala Ala Pro Met Leu Glu Asp Ile Arg Glu Val
 50 55 60
 Leu Gln Glu Glu Thr Gln Gln Phe Leu Arg Glu Leu Val Glu Arg Ala
 65 70 75 80
 Asn Tyr Pro Val His Gln Thr Val Ile Ala Thr Gly Glu Leu Ser Glu
 85 90 95
 His Ile Leu Asp Ile Cys Arg Lys Gln Asn Ile Asp Leu Val Ile Cys
 100 105 110
 Gly Asn His Asn Gln Ser Phe Phe Ser Arg Ala Ala Cys Ser Ala Lys
 115 120 125
 Ser Ile Val Ser Ser Ser Gln Val Asp Val Leu Leu Val Pro Leu Gly
 130 135 140
 Gly Asn
 145

<210> 8735
 <211> 312
 <212> PRT
 <213> Enterobacter cloacae

<400> 8735
 Gly Arg Met Lys Asn Gln Ser His Pro Ile Val Ile Val Lys Lys Arg
 1 5 10 15
 Lys His Lys Ala His Gly His Gly Ser His Gly Ser Trp Lys Ile Ala
 20 25 30
 Tyr Ala Asp Phe Met Thr Ala Met Met Ala Phe Phe Leu Val Met Trp
 35 40 45
 Leu Ile Ser Ile Ser Ser Pro Lys Glu Leu Ile Gln Ile Ala Glu Tyr
 50 55 60
 Phe Arg Thr Pro Leu Ala Thr Ala Val Thr Gly Gly Pro Arg Ile Ser
 65 70 75 80
 Asn Ser Asp Ser Pro Ile Pro Gly Gly Gly Asp Asp Tyr Thr Gln Gln
 85 90 95
 Gln Gly Glu Val Lys Lys Gln Pro Asn Ile Asp Glu Leu Lys Lys Arg
 100 105 110
 Met Glu Gln Ala Arg Leu Lys Lys Leu Arg Gly Asp Leu Asp Gln Leu
 115 120 125
 Ile Glu Ala Asp Pro Lys Leu Arg Ala Leu Arg Pro His Leu Lys Ile
 130 135 140
 Asp Leu Val Gln Glu Gly Leu Arg Ile Gln Ile Ile Asp Ser Gln Asn
 145 150 155 160
 Arg Pro Met Phe Lys Thr Gly Ser Ala Asp Val Glu Pro Tyr Met Arg
 165 170 175
 Asp Ile Leu Arg Ala Ile Ala Pro Val Leu Asn Gly Ile Pro Asn Arg
 180 185 190
 Ile Ser Leu Ser Gly His Thr Asp Asp Phe Pro Tyr Ala Thr Gly Glu
 195 200 205

Lys Gly Tyr Ser Asn Trp Glu Leu Ser Ala Asp Arg Ala Asn Ala Ser
 210 215 220
 Arg Arg Glu Leu Val Ala Gly Gly Leu Asp Asp Gly Lys Val Leu Arg
 225 230 235 240
 Val Val Gly Met Ala Ala Thr Met Arg Leu Thr Asp Arg Gly Pro Asp
 245 250 255
 Asp Ala Ile Asn Arg Arg Ile Ser Leu Leu Val Leu Asn Gln Gln Ala
 260 265 270
 Glu Gln Ala Ile Leu His Glu Asn Ala Glu Ser Gln Asn Glu Ser Leu
 275 280 285
 Asp Asp Leu Lys Gln Pro Gly Ala Val Pro Ser Ala Ala Val Pro Thr
 290 295 300
 Ser Pro Pro Ala Asn Pro Arg
 305 310

<210> 8736

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8736

Pro Cys His Gly Arg Lys Gly Arg Thr Ser Met Lys Pro Phe Phe Arg
 1 5 10 15
 Arg Ser Gly Leu Val Gly Leu Leu Gly Ala Thr Ala Leu Ala Ala Gly
 20 25 30
 Gln Ala Gln Ala Ala Ala Thr Ile Leu Leu Trp Pro Ile Asp Pro Trp
 35 40 45
 Leu Ser Ala Glu Ala Arg Ala Thr Glu Leu Trp Ile Gln Asn Gln Gly
 50 55 60
 Asn Ser Ala Thr Thr Met Gln Ile Arg Ile Val Arg Trp Lys Gln Glu
 65 70 75 80
 Gly Gly Tyr Glu Arg Tyr Thr Ala Gln Gln Asp Val Val Ala Ser Pro
 85 90 95
 Pro Ile Val Thr Ile Ala Lys Gly Ser Lys Gln Leu Ile Arg Leu Ile
 100 105 110
 Lys Gln Gly Thr Ile Pro Ser Gly Val Glu Gln Ala Tyr Arg Ile Ile
 115 120 125
 Val Asp Glu Ile Pro Gln Pro Asp Ala Lys Ala Glu Pro Ser Met Gly
 130 135 140
 Leu Lys Leu Gln Met Arg Tyr Ser Ile Pro Leu Phe Val Tyr Gly Gln
 145 150 155 160
 Gly Ile Pro Thr Leu Asn Glu Gly Ala His Ala Leu Ala Asn Thr
 165 170 175
 Gln Gln Leu Ser Trp Arg Val Val Gln Glu Gly Gly Lys Pro Ala Leu
 180 185 190
 Gln Val Arg Asn Gln Gly Asp Val His Val Arg Leu Ser Gln Val Ala
 195 200 205
 Val Glu Gln Gly Gly Gln Lys Arg Thr Val Ala Glu Gly Leu Leu Gly
 210 215 220
 Tyr Val Leu Pro Gly Ser Thr Arg Ser Trp Pro Leu Pro Ala Gly Ile
 225 230 235 240
 Tyr Gln Pro Asn Arg Met Ser Ala Gln Ile Asn Ala Arg Asp Thr Gln
 245 250 255
 Trp Gln Ser Thr Pro Val Asn
 260

<210> 8737

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 8737

Pro Gly Lys Pro Ala Asp Ala Gly Glu Asn Gln Cys Arg Thr Gly Asn
 1 5 10 15
 Thr Tyr Leu Thr Gln Glu Tyr Tyr Phe Met Ala Asp Lys Glu Leu Lys
 20 25 30
 Phe Leu Val Val Asp Asp Phe Ser Thr Met Arg Arg Ile Val Arg Asn
 35 40 45
 Leu Leu Lys Glu Leu Gly Phe Asn Asn Val Glu Glu Ala Glu Asp Gly
 50 55 60
 Val Asp Ala Leu Asn Lys Leu Gln Ala Gly Gly Phe Gly Phe Val Ile
 65 70 75 80
 Ser Asp Trp Asn Met Pro Asn Met Asp Gly Leu Glu Leu Leu Lys Thr
 85 90 95
 Ile Arg Ala Asp Ala Gly Met Ala Ser Leu Pro Val Leu Met Val Thr
 100 105 110
 Ala Glu Ala Lys Lys Glu Asn Ile Ile Ala Ala Ala Gln Ala Gly Ala
 115 120 125
 Ser Gly Tyr Val Val Lys Pro Phe Thr Ala Ala Thr Leu Glu Glu Lys
 130 135 140
 Leu Gly Lys Ile Phe Glu Lys Leu Gly Met
 145 150 155

<210> 8738

<211> 477

<212> PRT

<213> Enterobacter cloacae

<400> 8738

Lys Ala Ile Gly His Leu Leu Val Val Ser Asn Arg Ile Ala Pro Pro
 1 5 10 15
 Asp Asp Lys Lys Ala Ser Ala Gly Gly Leu Ala Val Gly Val Leu Gly
 20 25 30
 Ala Leu Lys Ala Ala Gly Gly Leu Trp Phe Gly Trp Ser Gly Glu Ile
 35 40 45
 Ser Asn Glu Glu Lys Pro Leu Lys Lys Val Ser Arg Gly Asn Ile Thr
 50 55 60
 Trp Ala Ser Phe Ala Leu Ser Glu Lys Asp Tyr Asp Glu Tyr Tyr Ser
 65 70 75 80
 Glu Phe Ser Asn Ala Val Leu Trp Pro Ala Phe His Tyr Arg Leu Asp
 85 90 95
 Leu Val Lys Phe Gln Arg Glu Ser Tyr Glu Gly Tyr Met Arg Val Asn
 100 105 110
 Ala Leu Leu Ala Asp Lys Leu Leu Pro Leu Ile Glu Glu Asp Asp Ile
 115 120 125
 Leu Trp Ile His Asp Tyr His Leu Leu Pro Phe Ala Arg Glu Leu Arg
 130 135 140
 Lys Arg Gly Val Asn Asn Arg Ile Gly Phe Phe Leu His Ile Pro Phe
 145 150 155 160
 Pro Thr Pro Glu Ile Phe Thr Ala Leu Pro Gln His Glu Glu Ile Leu
 165 170 175
 Glu Ala Leu Ser Asp Tyr Asp Leu Leu Gly Phe Gln Thr Glu Asn Asp
 180 185 190
 Arg Leu Ala Phe Leu Asp Ser Val Ser Gly Lys Thr Arg Leu Val Thr
 195 200 205
 His Gly Gly Lys Ser His Thr Ala Trp Gly Arg Asn Phe His Thr Glu
 210 215 220
 Val Tyr Pro Ile Gly Ile Glu Pro Asp Glu Ile Ala Glu Gln Ala Ser
 225 230 235 240
 Gly Pro Leu Pro Pro Lys Leu Ala Gln Leu Lys Asp Glu Leu Lys His
 245 250 255
 Val Lys Asn Ile Phe Ser Val Glu Arg Leu Asp Tyr Ser Lys Gly Leu

260 265 270
 Pro Glu Arg Phe Leu Ala Tyr Glu Thr Leu Leu Asp Lys Phe Pro Gln
 275 280 285
 His His Gly Lys Ile Arg Tyr Thr Gln Ile Ala Pro Thr Ser Arg Gly
 290 295 300
 Glu Val Gln Ala Tyr Gln Asp Ile Arg His Gln Leu Glu Thr Glu Ala
 305 310 315 320
 Gly Arg Ile Asn Gly Arg Tyr Gly Gln Leu Gly Trp Thr Pro Leu Phe
 325 330 335
 Tyr Leu Asn Gln His Phe Glu Arg Lys Ile Leu Met Lys Val Phe Arg
 340 345 350
 Tyr Ala Asp Val Gly Leu Val Thr Pro Leu Arg Asp Gly Met Asn Leu
 355 360 365
 Val Ala Lys Glu Tyr Val Ala Ala Gln Asp Pro Ala Asp Pro Gly Val
 370 375 380
 Leu Val Leu Ser Gln Phe Ala Gly Ala Ala Asn Glu Leu Thr Ser Ala
 385 390 395 400
 Leu Val Val Asn Pro Tyr Asp Arg Asp Asp Val Ala Asn Ala Leu Asn
 405 410 415
 Arg Ala Leu Thr Met Pro Leu Ala Glu Arg Ile Ser Arg His Ser Glu
 420 425 430
 Met Met Glu Thr Ile Val Lys Asn Asp Ile Asn Arg Trp Gln Ala Arg
 435 440 445
 Phe Ile Asp Asp Leu Arg Ala Ile Gln Pro Gln Ser Gln Glu Gly Asp
 450 455 460
 Leu Gln Lys Lys Ile Ala Thr Phe Pro Lys Leu Ala
 465 470 475

<210> 8739

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 8739

Arg Ser Pro Glu Glu Lys Gly Leu Thr Met Ser Glu Lys Ser Ile Val
 1 5 10 15
 Gln Glu Ala Arg Asp Ile Gln Leu Ala Met Glu Leu Ile Thr Leu Gly
 20 25 30
 Ala Arg Leu Gln Met Leu Glu Ser Glu Thr Gln Leu Ser Arg Gly Arg
 35 40 45
 Leu Ile Lys Leu Tyr Lys Glu Leu Arg Gly Ser Pro Pro Pro Lys Gly
 50 55 60
 Met Leu Pro Phe Ser Thr Asp Trp Phe Met Thr Trp Glu Gln Asn Ile
 65 70 75 80
 His Ala Ser Met Phe Cys Asn Ala Trp Gln Tyr Leu Leu Lys Thr Gly
 85 90 95
 Leu Cys Ser Gly Val Asp Ala Val Ile Lys Ala Tyr Lys Leu Tyr Leu
 100 105 110
 Glu Gln Cys Pro Gln His Glu Glu Gly Pro Leu Leu Ala Leu Thr Arg
 115 120 125
 Ala Trp Thr Leu Val Arg Phe Val Glu Ser Gly Met Leu Glu Leu Ser
 130 135 140
 Arg Cys Asn Cys Asp Gly Asn Phe Ile Thr His Ala His Gln Pro
 145 150 155 160
 Ala Gly Ser Phe Ala Cys Ser Leu Cys Gln Pro Pro Ser Arg Ala Val
 165 170 175
 Lys Arg Arg Lys Leu Ser Arg Asp Ala Ala Asp Ile Ile Pro Gln Leu
 180 185 190
 Leu Asp Glu Gln Ile Glu His Ala Val
 195 200

<210> 8740
 <211> 301
 <212> PRT
 <213> Enterobacter cloacae

<400> 8740
 Arg Lys Asp Asp Val Val Leu Ile Leu Leu Gly Tyr Leu Val Val Leu
 1 5 10 15
 Gly Thr Val Phe Gly Gly Tyr Met Met Thr Gly Gly His Leu Gly Ala
 20 25 30
 Leu Tyr Gln Pro Ala Glu Leu Val Ile Ile Gly Gly Ala Gly Val Gly
 35 40 45
 Ala Phe Ile Val Gly Asn Asn Gly Lys Ser Ile Lys Gly Thr Leu Lys
 50 55 60
 Ala Ile Pro Leu Leu Phe Arg Arg Ser Lys Tyr Thr Lys Ser Met Tyr
 65 70 75 80
 Met Asp Leu Leu Ala Leu Leu Tyr Arg Leu Met Ala Lys Ser Arg Gln
 85 90 95
 Gln Gly Met Phe Ser Leu Glu Arg Asp Ile Glu Asn Pro Lys Glu Ser
 100 105 110
 Glu Ile Phe Ala Ser Tyr Pro Arg Ile Leu Ala Asp Ala Met Met Leu
 115 120 125
 Asp Phe Ile Val Asp Tyr Leu Arg Leu Ile Ile Ser Gly Asn Met Asn
 130 135 140
 Thr Phe Glu Ile Glu Ala Leu Met Asp Glu Glu Ile Glu Thr His Glu
 145 150 155 160
 Ser Glu Ser Glu Val Pro Ala Asn Ser Leu Ala Leu Val Gly Asp Ser
 165 170 175
 Leu Pro Ala Phe Gly Ile Val Ala Ala Val Met Gly Val Val His Ala
 180 185 190
 Leu Ala Ser Ala Asp Arg Pro Ala Ala Glu Leu Gly Ala Leu Ile Ala
 195 200 205
 His Ala Met Val Gly Thr Phe Leu Gly Ile Leu Leu Ala Tyr Gly Phe
 210 215 220
 Ile Ser Pro Leu Ala Ser Val Leu Arg Gln Lys Ser Ala Glu Thr Thr
 225 230 235 240
 Lys Met Met Gln Cys Val Lys Ile Thr Leu Leu Ser Asn Leu Asn Gly
 245 250 255
 Tyr Ala Pro Pro Ile Ala Val Glu Phe Gly Arg Lys Thr Leu Tyr Ser
 260 265 270
 Ser Glu Arg Pro Ser Phe Ile Glu Leu Glu Glu His Val Arg Ala Val
 275 280 285
 Lys Asn Pro Asn Gln Gln Thr Thr Thr Glu Asp Ala
 290 295 300

<210> 8741
 <211> 692
 <212> PRT
 <213> Enterobacter cloacae

<400> 8741
 Asn Ser Leu Gly Pro Ser Leu Arg Leu Pro Phe Gln His Arg His Gln
 1 5 10 15
 Pro Ile Arg Gly Asp Ser Val Ser Met Asp Ile Thr Asp Phe Tyr Gln
 20 25 30
 Thr Phe Phe Asp Glu Ala Asp Glu Leu Leu Ala Asp Met Glu Gln His
 35 40 45
 Leu Leu Asp Leu Val Pro Glu Ala Pro Asp Ser Glu Gln Leu Asn Ala
 50 55 60
 Ile Phe Arg Ala Ala His Ser Ile Lys Gly Gly Ala Gly Thr Phe Gly
 65 70 75 80

Phe Thr Ile Leu Gln Glu Thr Thr His Leu Met Glu Asn Leu Leu Asp
 85 90 95
 Glu Ala Arg Arg Gly Glu Met Gln Leu Asn Thr Asp Ile Ile Asn Leu
 100 105 110
 Phe Leu Glu Thr Thr Lys Asp Ile Met Gln Glu Gln Leu Asp Ala Tyr Lys
 115 120 125
 Ser Ser Ala Glu Pro Asp Ala Ala Ser Phe Glu Tyr Ile Cys Asn Ala
 130 135 140
 Leu Arg Gln Leu Ala Leu Glu Ala Lys Gly Glu Ala Ser Ala Pro Ala
 145 150 155 160
 Val Pro Ala Ala Lys Leu Ser Val Val Asp Ala Val Ala Glu Pro Ala
 165 170 175
 Thr Ala Pro Asp Ala Pro Ala Gly Lys Leu Arg Val Val Leu Ser Arg
 180 185 190
 Leu Lys Glu Asn Glu Val Asn Leu Leu Glu Glu Glu Leu Gly Asn Leu
 195 200 205
 Ala Thr Leu Ser Asn Val Val Lys Gly Lys Asp Ser Leu Ala Ala Thr
 210 215 220
 Leu Asp Gly Gly Ile Gly Gln Asp Asp Ile Val Ala Val Leu Cys Phe
 225 230 235 240
 Val Ile Glu Ala Asp Gln Ile Ala Phe Glu Thr Glu Ala Gly Ala Val
 245 250 255
 Glu Ala Pro Ala Pro Ala Glu Asn Thr Pro Ala Val Val Ala Ala Ala
 260 265 270
 Pro Ala Leu Lys Ala Val Pro Lys Glu Thr Ala Ala Pro Ala Arg Gly
 275 280 285
 Glu Lys Pro Ala Ala Arg Ser Ser Glu Ser Thr Ser Ile Arg Val Ala
 290 295 300
 Val Glu Lys Val Asp Gln Leu Ile Asn Leu Val Gly Glu Leu Val Ile
 305 310 315 320
 Thr Gln Ser Met Leu Ala Gln Arg Ser Asn Glu Leu Asp Pro Val Thr
 325 330 335
 His Gly Asp Leu Ile Thr Ser Met Gly Gln Leu Gln Arg Asn Ala Arg
 340 345 350
 Asp Leu Gln Glu Ser Val Met Ser Ile Arg Met Met Pro Met Glu Tyr
 355 360 365
 Val Phe Ser Arg Phe Pro Arg Leu Val Arg Asp Leu Ala Gly Lys Leu
 370 375 380
 Asn Lys Gln Ile Glu Leu Thr Leu Met Gly Ser Ser Thr Glu Leu Asp
 385 390 395 400
 Lys Ser Leu Ile Glu Arg Ile Ile Asp Pro Leu Thr His Leu Val Arg
 405 410 415
 Asn Ser Leu Asp His Gly Ile Glu Leu Pro Glu Asn Arg Val Ala Ala
 420 425 430
 Gly Lys Ser Pro Val Gly Asn Leu Ile Leu Ser Ala Glu His Gln Gly
 435 440 445
 Gly Asn Ile Cys Ile Glu Val Thr Asp Asp Gly Ala Gly Leu Asn Arg
 450 455 460
 Glu Arg Ile Leu Ala Lys Ala Ile Ser Gln Gly Met Ala Val Asn Glu
 465 470 475 480
 Asn Met Thr Asp Glu Glu Val Gly Met Leu Ile Phe Ala Pro Gly Phe
 485 490 495
 Ser Thr Ala Glu Gln Val Thr Asp Val Ser Gly Arg Gly Val Gly Met
 500 505 510
 Asp Val Val Lys Arg Asn Ile Gln Glu Met Gly Gly His Val Glu Ile
 515 520 525
 Gln Ser Lys Gln Gly Ala Gly Thr Thr Ile Arg Ile Leu Leu Pro Leu
 530 535 540
 Thr Leu Ala Ile Leu Asp Gly Met Ser Val Lys Val Ala Asp Glu Val
 545 550 555 560
 Phe Ile Leu Pro Leu Asn Ala Val Met Glu Ser Leu Gln Pro Arg Glu

565 570 575
 Glu Asp Leu His Pro Leu Ala Gly Gly Glu Arg Val Leu Glu Val Arg
 580 585 590
 Gly Glu Tyr Leu Pro Leu Val Glu Leu Trp Lys Val Phe Glu Val Asp
 595 600 605
 Gly Ala Lys Thr Glu Ala Thr Gln Gly Ile Val Val Ile Leu Gln Ser
 610 615 620
 Ala Gly Arg Arg Tyr Ala Leu Leu Val Asp Gln Leu Ile Gly Gln His
 625 630 635 640
 Gln Val Val Val Lys Asn Leu Glu Ser Asn Tyr Arg Lys Val Pro Gly
 645 650 655
 Ile Ser Ala Ala Thr Ile Leu Gly Asp Gly Ser Val Ala Leu Ile Val
 660 665 670
 Asp Val Ser Ala Leu Gln Gly Leu Asn Arg Glu Gln Arg Val Ala Asn
 675 680 685
 Thr Ala Ala
 690

<210> 8742

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 8742

Met Lys Arg Lys Leu Leu Phe Ile Cys Ala Gly Thr Val Leu Thr Ala
 1 5 10 15
 Ala Thr Val Gly Gln Ala Leu Ala Val Thr Ser Ser Gly Thr Ile Gly
 20 25 30
 Ala Thr Leu Thr Leu Thr Asn Gly Cys Leu Ile Asn Gly Ser Pro Thr
 35 40 45
 Gln Asn Gly Ile Asn Phe Gly Thr Leu Asp Phe Gly Thr His Pro Ala
 50 55 60
 Thr Phe Ser Thr Leu Thr Thr Gln Leu Thr Gly Ala Ser Gly Asn
 65 70 75 80
 Thr Phe Thr Ile Gln Cys Thr Thr Ala Ser Tyr Thr Val Ala Ile Thr
 85 90 95
 Gly Asn Thr Asn Ala Thr Ala Pro Gly Thr Val Val Gly Thr Pro Gly
 100 105 110
 Thr Pro Ala Arg Tyr Leu Val Asn Thr Ala Asn Ala Ala Gln Gly Val
 115 120 125
 Ala Tyr Ser Leu Tyr Ser Asp Ser Gly Tyr Asn Asn Val Ile Ala Asn
 130 135 140
 Asn Ala Ala Leu Pro Val Ala Ser Thr Ala Gly Gly Val Asn Ser Tyr
 145 150 155 160
 Thr Leu Tyr Gly Arg Ile Thr Gly Gly Gly Asn Ser Val Thr Val Val
 165 170 175
 Pro Gly Thr Tyr Thr Asp Thr Ile Asn Val Ser Val Thr Tyr
 180 185 190

<210> 8743

<211> 545

<212> PRT

<213> Enterobacter cloacae

<400> 8743

Thr Ala Ala Ala Cys Arg Leu Met Gly Ala Trp Met Leu Asn Arg Ile
 1 5 10 15
 Arg Ile Ser Thr Thr Leu Phe Leu Ile Leu Ile Leu Cys Gly Val Leu
 20 25 30
 Gln Val Gly Ser Asn Gly Leu Ser Phe Trp Ala Phe Arg Asp Gly Tyr
 35 40 45

Gln Asn Leu Gln Glu Val Glu Thr Ser Asn Gln Gln Arg Ser Ala Leu
 50 55 60
 Ala Gln Thr Arg Ala Val Leu Leu Gln Ala Ser Thr Ala Leu Asn Lys
 65 70 75 80
 Ala Gly Thr Leu Thr Ala Leu Ser Tyr Pro Pro Glu Asp Ile Lys Ala
 85 90 95
 Leu Met Val Val Ala Arg Ser Ser Leu Lys Gln Ala Asp Ala Gln Phe
 100 105 110
 Lys Ala Phe Thr Ala Gln Glu Ala Val Ser Glu Lys Glu Lys Ala Leu
 115 120 125
 Lys Val Ala Met Lys Lys Thr Phe Asp Val Trp Tyr Gly Asp Leu Asp
 130 135 140
 His Gln Ala Thr Trp Leu Glu Asn Asn Gln Leu Ser Asp Phe Leu Thr
 145 150 155 160
 Ala Pro Val Gln Ala Ser Gln Ala Ala Phe Asp Asp Ser Phe Asn Ala
 165 170 175
 Trp Gln Gln Asp Ile Asn Gln Phe Val Ala Arg Ala Gly Ala Asp Ser
 180 185 190
 Arg Thr Ser Tyr Arg Met Ser Gly Val Ile Phe Leu Thr Met Val Ile
 195 200 205
 Leu Ala Ala Leu Leu Thr Gly Gly Ser Leu Trp Trp Ser Arg Lys Met
 210 215 220
 Ile Val Gln Pro Leu Ala Ile Val Ser Ser His Phe Asp Ser Ile Ala
 225 230 235 240
 Lys Gly Asp Leu Ala Arg Pro Val Ala Val Tyr Gly Arg Asn Glu Ile
 245 250 255
 Ser Ala Ile Phe Ala Ser Leu Lys Ala Met Gln Ser Ser Leu Arg Glu
 260 265 270
 Thr Val Ser Asn Val Arg Gln Gly Ser Tyr Ala Met His Thr Gly Ile
 275 280 285
 Ser Glu Ile Ala Ala Gly Asn Asn Asp Leu Ser Ser Arg Thr Glu Gln
 290 295 300
 Gln Ala Ala Ser Leu Ala Gln Thr Ala Ala Ser Met Glu Gln Leu Thr
 305 310 315 320
 Ala Thr Val Ser Gln Asn Ala Asp Asn Ala Arg Gln Ala Ser Asp Leu
 325 330 335
 Ser Lys Gln Ala Ala Met Thr Ala Lys Arg Gly Gly Asp Gln Ala Ser
 340 345 350
 His Val Ala Ser Thr Met Gln Glu Ile Ala Ala Ser Ser Gln Lys Ile
 355 360 365
 Gly Asp Ile Ile Ser Val Ile Asp Gly Ile Ala Phe Gln Thr Asn Ile
 370 375 380
 Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg Ala Gly Glu Gln Gly
 385 390 395 400
 Arg Gly Phe Ala Val Val Ala Gly Glu Val Arg Asn Leu Ala Ser Arg
 405 410 415
 Ser Ala Asn Ala Ala Lys Glu Ile Lys Gly Leu Ile Glu Glu Ser Val
 420 425 430
 Ser Arg Val Gln Gln Gly Ser Ala Leu Val Asp Thr Ala Ala Gln Thr
 435 440 445
 Met His Glu Ile Val Thr Ser Val Thr Arg Val Asn Asp Ile Met Gly
 450 455 460
 Glu Ile Ala Ser Ala Ser Asp Glu Gln Arg Arg Gly Ile Glu Gln Val
 465 470 475 480
 Ala Gln Ala Val Thr Gln Met Asp Gln Val Thr Gln Gln Asn Ala Ser
 485 490 495
 Leu Val Glu Glu Ala Ala Ala Ala Thr Asp Gln Leu Ala Asn Gln Ala
 500 505 510
 Asp His Leu Thr Gly Leu Val Ala Val Phe Asn Val Lys Glu His Val
 515 520 525
 Glu Ala Val Thr Glu Val Gly Arg Ser Gln Ala Val Pro Val Val Ser

530

535

540

545

<210> 8744

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 8744

Gly Lys Ser Met Ser Lys Ile Arg Val Leu Ser Val Asp Asp Ser Ala
 1 5 10 15
 Leu Met Arg Gln Ile Met Thr Glu Ile Asn Ser His Ser Asp Met
 20 25 30
 Glu Met Val Ala Thr Ala Pro Asp Pro Leu Val Ala Arg Asp Leu Ile
 35 40 45
 Lys Lys Tyr Asn Pro Asp Val Leu Thr Leu Asp Val Glu Met Pro Arg
 50 55 60
 Met Asp Gly Ile Asp Phe Leu Glu Lys Leu Met Arg Leu Arg Pro Met
 65 70 75 80
 Pro Val Val Met Val Ser Ser Leu Thr Gly Lys Gly Ser Glu Ile Thr
 85 90 95
 Leu Arg Ala Leu Glu Leu Gly Ala Val Asp Phe Val Thr Lys Pro Gln
 100 105 110
 Leu Gly Ile Arg Glu Gly Met Leu Ala Tyr Ser Glu Met Ile Ala Glu
 115 120 125
 Lys Ile Arg Thr Ala Ser Arg Ala Lys Leu Ala Ala His Lys Pro Thr
 130 135 140
 Ala Ala Pro Ala Thr Leu Lys Ala Gly Pro Leu Leu Ser Ser Glu Lys
 145 150 155 160
 Leu Leu Val Ile Gly Ala Ser Thr Gly Gly Thr Glu Ala Ile Arg His
 165 170 175
 Val Leu Gln Pro Leu Pro Leu Ser Ser Pro Gly Ile Leu Ile Thr Gln
 180 185 190
 His Met Pro Pro Gly Phe Thr Arg Ser Phe Ala Glu Arg Leu Asn Lys
 195 200 205
 Leu Cys Gln Ile Ser Val Lys Glu Ala Glu Asp Gly Glu Arg Val Leu
 210 215 220
 Pro Gly His Ala Tyr Ile Ala Pro Gly Asp Lys His Met Glu Leu Ala
 225 230 235 240
 Arg Ser Gly Ala Asn Tyr Gln Ile Lys Ile His Asp Gly Pro Pro Val
 245 250 255
 Asn Arg His Arg Pro Ser Val Asp Val Leu Phe His Ser Val Ala Lys
 260 265 270
 His Ala Gly Arg Asn Ala Val Gly Val Ile Leu Thr Gly Met Gly Asn
 275 280 285
 Asp Gly Ala Ala Gly Met Leu Ala Met His Gln Ala Gly Ala Trp Thr
 290 295 300
 Ile Ala Gln Asn Glu Ala Ser Cys Val Val Phe Gly Met Pro Arg Glu
 305 310 315 320
 Ala Ile Asn Met Ser Gly Val Ser Glu Val Val Asp Leu Ser Gln Val
 325 330 335
 Ser Gln Gln Met Leu Ala Lys Ile Ser Ala Gly Gln Ala Ile Arg Ile
 340 345 350

<210> 8745

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 8745

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Ser His Ser Pro Arg Leu Trp Lys Arg Ser Ser Gly Arg Ser Ser
1      5      10      15
Arg Asn Ser Ala Cys Glu Val Met Asp Met Leu Gln Pro Ala Met Lys
20      25      30
Pro Val Glu Glu His Ser Pro Ser Asp Ile Ile Ala Arg Ile Gly Ser
35      40      45
Leu Thr Arg Met Leu Arg Asp Ser Leu Arg Glu Leu Gly Leu Asp Gln
50      55      60
Ala Ile Ala Glu Ala Ala Glu Ala Ile Pro Asp Ala Arg Asp Arg Leu
65      70      75      80
Asp Tyr Val Val Gln Met Thr Ala Gln Ala Ala Glu Arg Ala Leu Asn
85      90      95
Ser Val Glu Ala Ser Gln Pro His Gln Asp Ala Met Glu Lys Gly Ala
100     105     110
Lys Ala Leu Ser Lys Arg Trp Asp Glu Trp Phe Glu Asn Pro Ile Glu
115     120     125
Leu Ala Asp Ala Arg Glu Leu Val Thr Asp Thr Arg Gln Tyr Leu Gly
130     135     140
Asp Val Pro Gly His Thr Ser Phe Thr Asn Ala Gln Leu Leu Asp Ile
145     150     155     160
Met Met Ala Gln Asp Phe Gln Asp Leu Thr Gly Gln Val Ile Lys Arg
165     170     175
Met Met Asp Val Ile Gln Glu Ile Glu Arg Gln Leu Leu Met Val Leu
180     185     190
Leu Glu Asn Ile Pro Glu Pro Ala Ala Arg Pro Lys Arg Glu Asn Glu
195     200     205
Ser Leu Leu Asn Gly Pro Gln Leu Asp Thr Ser Lys Ala Gly Val Val
210     215     220
Ala Ser Gln Asp Gln Val Asp Asp Leu Leu Asp Ser Leu Gly Phe
225     230     235     240

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<210> 8746

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 8746

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Ile Asn Gly Leu Arg Ala Gly Thr Val Ala Glu Glu Asn Asp Asp Lys
1      5      10      15
Thr Glu Ala Pro Thr Pro His Arg Leu Glu Lys Ala Arg Glu Asp Gly
20      25      30
Gln Ile Pro Arg Ser Arg Glu Leu Thr Ser Leu Leu Ile Leu Val Val
35      40      45
Gly Val Cys Ile Ile Trp Trp Gly Gly Glu Met Leu Ala Arg Arg Leu
50      55      60
Ala Gly Met Leu Ser Ala Gly Leu Arg Phe Asp His Ser Met Val Asn
65      70      75      80
Asp Pro Asn Leu Ile Leu Ile Gln Ile Ile Asn Leu Val Lys Ser Ala
85      90      95
Met Ile Ala Leu Leu Pro Leu Ile Ala Gly Val Val Ile Val Ala Leu
100     105     110
Val Ser Pro Val Met Leu Gly Gly Leu Val Phe Ser Gly Lys Ser Leu
115     120     125
Gln Pro Lys Phe Ser Lys Leu Asn Pro Leu Pro Gly Ile Ala Lys Met
130     135     140
Phe Ser Ala Gln Thr Gly Ala Glu Leu Leu Lys Ala Ile Leu Lys Ser
145     150     155     160
Leu Leu Met Gly Ser Thr Ala Gly Phe Phe Leu Trp His His Trp Pro
165     170     175

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Glu Met Met Arg Leu Ile Ser Glu Ser Pro Met Thr Ala Met Lys Asn
 180 185 190
 Ala Leu Asn Leu Val Gly Leu Cys Ser Leu Leu Val Val Leu Ser Ile
 195 200 205
 Ile Pro Met Val Ala Phe Asp Val Ile Phe Gln Ile Tyr Ser His Ile
 210 215 220
 Lys Lys Leu Arg Met Ser Arg Gln Asp Ile Arg Asp Glu Tyr Lys Gln
 225 230 235 240
 Met Glu Gly Asp Pro His Val Lys Gly Arg Ile Arg Gln Met Gln Arg
 245 250 255
 Ala Ala Ala Arg Arg Arg Met Met Glu Asp Val Pro Lys Ala Asp Val
 260 265 270
 Ile Val Thr Asn Pro Thr His Tyr Ser Val Ala Leu Gln Tyr Asp Glu
 275 280 285
 Asn Lys Met Ser Ala Pro Lys Val Val Ala Lys Gly Ala Gly Leu Ile
 290 295 300
 Ala Leu Arg Ile Arg Glu Ile Ala Thr Glu Asn Arg Val Pro Ile Leu
 305 310 315 320
 Glu Ala Pro Pro Leu Ala Arg Ala Leu Tyr Arg His Ala Glu Ile Gly
 325 330 335
 Gln Gln Ile Pro Gly Gln Leu Tyr Ala Ala Val Ala Glu Val Leu Ala
 340 345 350
 Trp Val Trp Gln Leu Lys Arg Trp Arg Leu Ala Gly Gly Gln Arg Pro
 355 360 365
 Val Lys Pro Glu Asn Leu Pro Val Pro Glu Ala Leu Asp Phe Leu Asn
 370 375 380
 Glu Lys Asp Thr Asp Gly
 385 390

<210> 8747

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 8747

Pro Gln Tyr Ser His Asp Gly Asp His Arg Arg Glu Ile Met Arg Lys
 1 5 10 15
 Trp Leu Trp Ile Leu Leu Phe Pro Leu Ala Ala Gln Ala Ala Gly Glu
 20 25 30
 Gly Ala Trp Gln Ala Ser Ser Ile Gly Leu Thr Leu Asn His Arg Gly
 35 40 45
 Glu Ser Ile Ser Ser Arg Pro Leu Ser Ala Ser Glu Pro Val Ser Gly
 50 55 60
 Gln Met Thr Leu Val Ala Trp Asn Tyr Thr Leu Thr Gly Pro Thr Pro
 65 70 75 80
 Ala Gly Leu Arg Val Arg Leu Cys Ser Leu Thr Arg Cys Ala Glu Ile
 85 90 95
 Glu Gly Gln Ser Gly Thr Thr Gln Ala Phe Asn Gly Val Ser Ala Gln
 100 105 110
 Glu Pro Leu Arg Phe Ile Trp Glu Val Pro Gly Gly Gly Arg Leu Ile
 115 120 125
 Pro Ala Leu Lys Val Gln Arg Asn Glu Val Leu Val Asn Tyr Arg
 130 135 140

<210> 8748

<211> 533

<212> PRT

<213> Enterobacter cloacae

<400> 8748

Leu Gly Leu Thr Ala Met Lys Thr Arg Lys Ile Gly Leu Ala Asn Tyr

1	5	10	15
Leu Ala Tyr Gly Ser Gly Asp Phe Leu Gly Ala Gly Thr Thr Ala Leu			
Thr Ala Ala Trp Leu Leu Tyr Phe Tyr Thr Thr Phe Cys Gly Leu Thr	20	25	30
Pro Ile Glu Ala Thr Phe Ile Phe Ala Ala Ala Arg Val Leu Asp Ala	35	40	45
Val Val Ser Pro Leu Met Gly Phe Leu Thr Asp Asn Phe Gly Thr Thr	50	55	60
Trp Leu Gly Lys Arg Phe Gly Arg Arg Lys Phe Phe Ile Leu Leu Gly	65	70	75
Ile Pro Cys Val Phe Ser Tyr Ser Leu Met Trp Val Gly Asp Met Ser	85	90	95
Phe Trp Tyr Tyr Leu Leu Thr Tyr Leu Ile Phe Asp Ile Val Tyr Thr	100	105	110
Met Ile Leu Val Pro Tyr Glu Thr Leu Val Pro Glu Met Thr Asp Asp	115	120	125
Phe Lys Gln Lys Thr Lys Phe Ser Gly Ala Arg Ile Ser Met Ala Gln	130	135	140
Met Ser Ala Ile Leu Ala Ser Phe Leu Pro Gly Ile Leu Leu Thr His	145	150	155
Phe Gly Lys Asp Asn Ala Ile Ser Phe Phe Tyr Ala Ser Leu Val Phe	165	170	175
Ser Val Leu Cys Ala Leu Met Leu Thr Phe Val Trp Phe Phe Thr Trp	180	185	190
Glu Arg Pro Arg Glu Glu Trp Ser Glu Ala Ala Leu Arg Ala Glu Glu	195	200	205
Glu Lys Lys Lys Leu Thr Leu Gly Gln Ser Leu Asn Arg Leu Phe Val	210	215	220
Glu Leu Ser Ser Thr Leu Arg Ile Lys Ile Phe Arg Gln His Leu Gly	225	230	235
Met Tyr Leu Gly Gly Tyr Ile Ala Gln Asp Val Phe Asn Ala Val Phe	245	250	255
Thr Tyr Tyr Val Val Phe Val Leu Met Gln Glu Ala Ser Met Ala Ser	260	265	270
Asn Leu Leu Gly Thr Met Ala Ile Phe Gln Phe Leu Ala Val Ile Gly	275	280	285
Met Ile Pro Leu Cys Ile Arg Phe Gly Pro Ala Pro Ser Tyr Arg Met	290	295	300
Val Val Val Leu Phe Gly Leu Ala Ser Leu Ser Tyr Ala Val Leu Tyr	305	310	315
Tyr Ala Gly Leu Ser Asp Val Tyr Ala Leu Leu Leu Ile Ser Ala	325	330	335
Val Ala Gly Leu Gly Arg Gly Gly Ile Asn Tyr Val Pro Trp Asn Thr	340	345	350
Tyr Thr Tyr Ile Ala Asp Val Asp Glu Val Ile Thr Gly Gln Arg Arg	355	360	365
Glu Gly Ile Phe Ala Gly Ile Met Thr Leu Thr Arg Lys Ala Ser Gln	370	375	380
Ala Gly Ala Val Met Leu Val Gly Ile Val Met Gln Met Ser Gly Phe	385	390	395
Val Ser Gly Gln Lys Val Gln Pro Ala Glu Val Ser His Thr Ile Leu	405	410	415
Met Ile Leu Ser Val Gly Thr Ile Leu Val Leu Phe Cys Gly Phe Leu	420	425	430
Val Ser Leu Arg Phe Lys Leu Asn Leu Gln Thr His Ser Thr Leu Arg	435	440	445
Glu Glu Thr Ala Lys Met Arg Glu Ser Gly His Ala Met Pro Glu Ala	450	455	460
Val Thr Pro Gln Ala Arg Ala Thr Val Glu Met Leu Ala Gly Met Pro	465	470	475
	485	490	495

Tyr Glu Ser Leu Trp Gly Asn Asn Ile Gly Tyr Leu Asn Arg Asn
 500 505 510
 Lys Pro Ala Ala Pro Ser Leu Lys Asp Arg Ala Val Leu Asn Ser Thr
 515 520 525
 Tyr Asn Arg Gly
 530

<210> 8749

<211> 188

<212> PRT

<213> *Enterobacter cloacae*

<400> 8749

Pro Met Ala Asn Trp His Thr Ile Asp Glu Leu His Asp Ile Ser Ala
 1 5 10 15
 Asp Leu Pro Arg Phe Thr Gln Ala Phe Thr Glu Leu Ala Thr Arg Leu
 20 25 30
 Gly Leu Asp Ile Ala Pro Leu Glu Ala Asp His Ile Ser Leu Arg Cys
 35 40 45
 His Gln Asn Ala Thr Ala Glu Arg Trp Arg Arg Gly Phe Glu Gln Cys
 50 55 60
 Gly Glu Leu Leu Ser Glu Asn Ile Ile Asn Gly Arg Pro Ile Cys Leu
 65 70 75 80
 Phe Lys Leu His Ala Pro Val Thr Val Ala His Trp Gln Phe Thr Val
 85 90 95
 Val Glu Leu Pro Trp Pro Gly Glu Lys Arg Tyr Pro His Glu Gly Trp
 100 105 110
 Glu His Ile Glu Ile Val Leu Pro Gly Glu Pro Glu Thr Leu Asn Ala
 115 120 125
 Arg Ala Leu Thr Leu Leu Ser Asp Glu Gly Leu Ser Gln Pro Gly Ile
 130 135 140
 Phe Val Lys Thr Ser Ser Pro Lys Gly Glu Arg Glu Arg Leu Pro Asn
 145 150 155 160
 Pro Thr Leu Ala Val Thr Asp Gly Asn Val Thr Val Lys Phe His Pro
 165 170 175
 Trp Thr Ile Glu Gln Ile Val Ala Ser Glu Ala
 180 185

<210> 8750

<211> 255

<212> PRT

<213> *Enterobacter cloacae*

<400> 8750

Val Lys Phe Lys Glu Asp Asp Met Ala Leu Leu Glu Ile Cys Cys Tyr
 1 5 10 15
 Ser Val Glu Cys Ala Val Thr Ala Gln Arg His Gly Ala Asp Arg Ile
 20 25 30
 Glu Leu Cys Ala Ala Pro Lys Glu Gly Gly Leu Thr Pro Ser Ser Gly
 35 40 45
 Val Leu Lys Ser Ala Arg Gln Ala Ile Thr Ile Pro Val His Pro Ile
 50 55 60
 Ile Arg Pro Arg Gly Gly Asp Phe Cys Tyr Thr Ala Gly Glu Phe Ser
 65 70 75 80
 Ala Met Leu Glu Asp Ile Ala Leu Val Arg Asp Leu Gly Phe Pro Gly
 85 90 95
 Leu Val Ile Gly Val Leu Asp Glu Asp Gly Asn Ile Asp Leu Pro Arg
 100 105 110
 Met Arg Gln Val Met Arg Ala Ala Arg Gly Met Ala Val Thr Phe His
 115 120 125
 Arg Ala Phe Asp Met Cys Gln Asp Pro Ile Gln Ala Phe Asp Thr Leu

130		135		140
Ala Glu Leu Gly Val	Ala Arg Val Leu Thr Ser Gly Gln Gln Ser Ser			
145	150	155	160	
Ala Glu Lys Gly Leu Lys Leu Ile Thr Glu Leu Lys Ala His Ser Gly				
	165	170	175	
Val Pro Ile Ile Met Ala Gly Ala Gly Val Arg Ala Ser Asn Leu Glu				
	180	185	190	
Leu Phe Leu Asn Ala Gly Val Glu Glu Leu His Ser Ser Ala Gly Lys				
	195	200	205	
Trp Ile Pro Ser Pro Met Arg Tyr Arg Asn Thr Gly Leu Ser Met Ser				
	210	215	220	
Thr Asp Ala Glu Ala Asp Glu Tyr Ser Arg Tyr Gly Val Asp Gly Glu				
225	230	235	240	
Ser Val Ala Val Met Lys Ser Leu Ile Glu Arg His His Val				
	245	250	255	

<210> 8751

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 8751

Ile Gln Leu Cys Ile Trp Pro Phe Leu Phe Ile Pro Gly Asp Phe Pro	
1	5
Ala Thr Ser Arg Gly Ala Val Phe Pro His Lys Asn Asn Ser Trp Leu	
	20
Phe Gly Met Gly Lys Met His Thr Ser Glu Leu Leu Lys His Ile Tyr	
	35
Asp Ile Asn Leu Ser Tyr Leu Leu Leu Ala Gln Arg Leu Ile Ser Gln	
	50
Asp Lys Pro Ser Ala Met Phe Arg Leu Gly Val Asn Glu Glu Met Ala	
65	70
Thr Met Leu Gly Gly Leu Thr Leu Pro Gln Met Val Lys Leu Ala Glu	
	85
Thr Asn Gln Leu Val Cys Gln Phe Arg Phe Asp Asn Pro Gln Thr Ile	
	100
Thr Arg Leu Thr Gln Glu Ser Arg Val Asp Asp Leu Gln Gln Ile His	
	115
Thr Gly Ile Leu Leu Ser Thr Arg Leu Leu Asn Glu Ile Ser Gln Pro	
	130
Asp Asp Val Ala Arg Lys Lys Arg Ala	
145	150

<210> 8752

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 8752

Val Lys Gly Asn Asn Met Thr Gly Met Ser Asn Val Thr Lys Leu Ala	
1	5
Gly Glu Pro Ser Gly Gln Glu Phe Leu Val Phe Thr Leu Gly Asp Glu	
	20
Glu Tyr Gly Ile Asp Ile Leu Lys Val Gln Glu Ile Arg Gly Tyr Asp	
	35
Gln Val Thr Arg Ile Ala Asn Thr Pro Ala Phe Ile Lys Gly Val Thr	
	50
Asn Leu Arg Gly Val Ile Val Pro Ile Val Asp Leu Arg Val Lys Phe	
65	70
Ser Gln Gly Asp Val Glu Tyr Asn Asp Asn Thr Val Val Ile Val Leu	
	85
	90
	95

Asn Leu Gly Gln Arg Val Val Gly Ile Val Val Asp Gly Val Ser Asp
 100 105 110
 Val Leu Ser Leu Thr Ala Asp Gln Ile Arg Pro Ala Pro Glu Phe Ala
 115 120 125
 Val Thr Leu Ser Thr Glu Tyr Leu Thr Gly Leu Gly Ala Leu Gly Glu
 130 135 140
 Arg Met Leu Ile Leu Val Asn Ile Glu Lys Leu Leu Asn Ser Glu Glu
 145 150 155 160
 Met Ala Leu Leu Asp Ile Ala Ala Asn His Val Ala
 165 170

<210> 8753

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 8753

Arg Leu Tyr Arg Glu Pro Ile Pro Thr Arg Leu Thr Ser Ala Ser Pro
 1 5 10 15
 Thr Asp Ser Ala Met Lys Ala Leu Cys Leu Arg Glu Ser Ala
 20 25 30
 Glu Gly Val Val His Pro Phe Leu Ala Leu Ile Val Gly Leu Met Met
 35 40 45
 Ile Cys Asp Ala Arg Ala Val Thr Ser Gln Ser Phe Arg Val Ser Ala
 50 55 60
 Thr Val Val Pro Gly Cys Ser Val Ser Thr Gly Thr Gly Arg Phe
 65 70 75 80
 Gly Thr Leu Asp Phe Gly Thr Arg Asn Gly Val Asp Asn Thr Pro Val
 85 90 95
 Ser Thr Ser Phe Val Ala Asp Gly Ala Leu Ser Ile Ala Cys Thr Pro
 100 105 110
 Gly Val Ala Leu Ser Met Ser Ile Asn Gly Gly Gln Asn Tyr Ser Ser
 115 120 125
 Val Arg Arg Met Thr Arg Ser Gly Gly Thr Glu Val Val Gly Tyr Arg
 130 135 140
 Leu Tyr Ser Ser Ser Ser Leu Ala Ala Asn Ser Glu Ile Gly Val Asn
 145 150 155 160
 Gln Ala Ile Pro Ile Thr Tyr Thr Asn Ser Asn Asn Ile Ala Leu Pro
 165 170 175
 Leu Phe Gly Val Ala Leu Leu Thr Gly Phe Ser Leu Pro Gly Thr Tyr
 180 185 190
 Ser Asp Gln Leu Thr Val Thr Leu Ser Trp
 195 200

<210> 8754

<211> 800

<212> PRT

<213> Enterobacter cloacae

<400> 8754

Cys Gln Gly Tyr Ala Met Ala Ile Asp Ala Arg Gln Leu Lys Pro Ala
 1 5 10 15
 Met Met Ile Leu Leu Cys Val Ser Thr Ser Ala Phe Ala Gly Thr Gly
 20 25 30
 Asp Asp Ser Leu Pro Pro Pro Asp Ala Arg Thr Met Asn Gly Glu
 35 40 45
 Ala Val Phe Gln Leu Ala Leu Val Leu Asn His Tyr Asp Thr Gly Leu
 50 55 60
 Val Val Pro Val Thr Gln Arg Glu Gly Ala Trp Phe Ile Ser Gly Ala
 65 70 75 80
 Asp Leu Leu Arg Ala Gly Leu Pro Pro Ala His Val Pro Ala Gly Glu

Val	Asn	Leu	Ser	Thr	Leu	Thr	Ser	Val	Arg	Ala	Glu	Tyr	Asp	Ser	Thr
Ala	Gln	Arg	Leu	Leu	Leu	Thr	Val	Pro	Arg	Asp	Trp	Val	Ala	Ala	Arg
Ile	Thr	Pro	Phe	Ser	Glu	Gln	Asn	Thr	His	Ser	Lys	Pro	His	Tyr	Gly
Arg	Gly	Ala	Leu	Leu	Asn	Tyr	Asp	Val	Tyr	Thr	Asn	His	Ser	Glu	His
Thr	Gly	Gly	Gln	Ala	Ser	Val	Trp	His	Glu	Phe	Arg	Tyr	Phe	Asn	Glu
Asp	Tyr	Ser	Phe	Ser	Ser	Thr	Gly	Tyr	Ala	Arg	Gln	Asn	Phe	Thr	Gly
Asn	Ser	Gly	Gln	Gln	Glu	Gly	Tyr	Val	Arg	Tyr	Asp	Ser	Thr	Phe	Leu
Ile	Thr	Asn	Glu	Glu	Asp	Ala	Thr	Thr	Trp	Thr	Val	Gly	Asp	Val	Ile
Ser	Asp	Ala	Leu	Ser	Trp	Ser	Thr	Asn	Val	Arg	Met	Gly	Gly	Ile	Ser
Tyr	Gly	Arg	Asp	Phe	Ser	Leu	Arg	Pro	Asp	Leu	Val	Thr	Trp	Pro	Leu
Pro	Ala	Phe	Ser	Gly	Glu	Ala	Ala	Val	Pro	Thr	Ser	Val	Asp	Leu	Phe
Ile	Asn	Gly	Tyr	Arg	Ser	Gly	Ser	Thr	Arg	Leu	Gln	Pro	Gly	Pro	Phe
Thr	Leu	Thr	Asn	Leu	Pro	Tyr	Ile	Asn	Gly	Ala	Gly	Asp	Ala	Val	Leu
Val	Thr	Thr	Asp	Ala	Leu	Gly	Arg	Gln	Val	Ser	Thr	Thr	Leu	Pro	Phe
Tyr	Val	Ser	Ser	Ser	Leu	Leu	Lys	Gln	Gly	Leu	Ser	Asp	Gly	Ala	Val
Thr	Leu	Gly	Ser	Leu	Arg	Arg	Asn	Tyr	Gly	Ile	Glu	Asn	Phe	Asp	Tyr
Gly	Pro	Ala	Ala	Gly	Ser	Gly	Ser	Tyr	Arg	Tyr	Gly	Val	Thr	Asp	Trp
Leu	Thr	Leu	Glu	Gly	His	Ala	Glu	Gly	Ala	Glu	Ser	Leu	Ala	Leu	Gly
Gly	Ala	Gly	Thr	Val	Leu	Lys	Leu	Gly	Arg	Phe	Gly	Val	Val	Asn	Thr
Ser	Trp	Thr	Gln	Ser	Arg	Met	Arg	Gly	Asp	Ser	Gly	Gly	Gln	Ile	Asn
Trp	Gly	Tyr	Gln	Tyr	Asn	Thr	Ser	Glu	Phe	Ser	Val	Ala	Thr	Gln	His
Thr	Arg	Arg	Asp	Arg	Gly	Phe	Gly	Asn	Leu	Ala	Leu	Tyr	Asp	Gln	Pro
Thr	Val	Tyr	Asp	Glu	Asn	Asp	Asn	Pro	Val	Ala	Ser	Leu	Ser	Arg	Asn
Thr	Asp	Gln	Tyr	Ser	Leu	Thr	Phe	Asn	Leu	Gly	Gly	Tyr	Gly	Asn	Ile
Gly	Ala	Ala	Trp	Ile	Gly	Val	Glu	Ser	Phe	Asp	Ser	Lys	Lys	Thr	Glu
Leu	Leu	Asn	Leu	Ser	Trp	Ser	Arg	Asn	Leu	Trp	Gly	Ser	Ser	Ser	Ile
Tyr	Leu	Ala	Ala	Ser	Arg	Asp	Gln	Gln	Arg	Gly	Asp	Trp	Thr	Val	Ala
Leu	Ser	Leu	Gln	Val	Pro	Leu	Gly	Glu	Arg	Asp	Ser	Ala	Ala	Val	Thr
Phe	Glu	Asn	Thr	Pro	Asp	Ala	Gly	Ser	Thr	Gln	Arg	Ile	Asn	Tyr	Asn
His	Ser	Met	Pro	Ser	Asp	Gly	Gly	Phe	Ser	Trp	Asn	Met	Ala	Trp	Ala

Asn Gln Ser Arg Ser Ser Asn Tyr Gln Gln Ala Thr Leu Gly Trp Arg
 580 585 590
 Asn Asn Asn Val Glu Leu Gln Gly Gly Gly Tyr Gly Glu Lys Gly Met
 595 600
 Met Thr Trp Trp Gly Glu Ala Met Gly Ser Val Val Leu Met Asp Gly
 610 615 620
 Glu Leu Phe Ala Ala Asn Lys Ile Asn Asp Ala Phe Val Val Ile Ser
 625 630 635 640
 Thr Asp Gly His Pro Asp Val Pro Val Ser Tyr Glu Asn Gln Pro Val
 645 650 655
 Gly Lys Thr Asn Asn Lys Gly Tyr Leu Leu Val Ser Gly Val Ser Ala
 660 665 670
 Tyr Tyr Pro Ala Ser Tyr Arg Ile Asp Thr Leu Asn Leu Pro Ala Asp
 675 680 685
 Thr Arg Leu Lys Glu Thr Glu Arg Arg Val Ala Ile Arg Arg His Asn
 690 695 700
 Gly Tyr Leu Val Asp Phe Pro Met Glu Gln Glu Arg Val Ala Ser Val
 705 710 715 720
 Ile Leu His Asp Ala Gln Gly Asn Ala Ile Pro Val Gly Ser Gln Val
 725 730 735
 Arg Arg Ala Ser Arg Ser Ser Ala Val Val Gly Tyr Asp Gly Leu Ala
 740 745 750
 Trp Leu Glu Asn Leu Asn Asp Val Asn Pro Leu Glu Val Ile Thr Pro
 755 760 765
 Glu Gly Lys Arg Cys Thr Ala Thr Leu Thr Val Gly Ala Asn Pro Glu
 770 775 780
 His Lys Leu Gln Thr Tyr Gly Pro Leu Thr Cys Arg Glu Ala Pro
 785 790 795 800

<210> 8755

<211> 591

<212> PRT

<213> Enterobacter cloacae

<400> 8755

Leu Ser Thr Ser His Ser Asp Ser Arg Ala Phe Pro Phe Arg Lys Cys
 1 5 10 15
 Lys Val Pro Val Ala Cys Ala Asp Asn Thr Val Asn Lys Ser Met Arg
 20 25 30
 Arg Cys Cys Met Leu Asn Arg Ile Arg Val Val Thr Met Leu Met Met
 35 40 45
 Val Leu Val Ile Phe Ala Leu Leu Gln Leu Thr Ser Gly Gly Leu Phe
 50 55 60
 Phe Ser Ser Leu Lys Gln Asn Gln Asp Ser Phe Ala Ala Ser Asn Asp
 65 70 75 80
 Leu Arg Met Gln Gln Ser Glu Leu Thr Thr Thr Trp Asp Leu Met Leu
 85 90 95
 Gln Thr Arg Ile Asn Leu Ser Arg Ser Ser Ala Arg Met Met Met Asp
 100 105 110
 Pro Asn Asn Gln Gln Ser Ser Ala Lys Thr Glu Leu Leu Lys Asn Ala
 115 120 125
 Arg Ala Thr Leu Ala Asp Ala Ala Lys His Tyr Asp Ala Phe Lys Lys
 130 135 140
 Ile Ala Pro Gln Pro Ala Met Ala Gln Ala Ser Ala Asn Ile Asp Glu
 145 150 155 160
 Lys Tyr Gln Ala Tyr Phe Ala Gly Leu Thr Glu Leu Val Gln Phe Leu
 165 170 175
 Glu Lys Gly Asn Met Asp Ala Tyr Phe Ala Gln Pro Thr Gln Gly Met
 180 185 190
 Gln Asn Ala Leu Gly Ala Ala Leu Gly Glu Tyr Ala Lys Ala Ser Gly
 195 200 205

Glu Leu Tyr His Ser Ala Phe Thr Gln Ser Gln Asn Asp Tyr Arg Phe
 210 215 220
 Ala Lys Trp Gln Met Ala Val Leu Ala Leu Ala Leu Val Ile Val Leu
 225 230 235 240
 Val Ala Val Trp Tyr Gly Ile Arg His Ile Leu Leu Asn Pro Leu Gly
 245 250 255
 Arg Val Ile Ala His Ile Arg Asp Ile Gly Arg Gly Asp Leu Thr Lys
 260 265 270
 Thr Leu Ser Val Ser Gly Arg Asn Glu Ile Thr Glu Leu Ala Thr Ser
 275 280 285
 Val Asp His Met Gln Arg Ser Leu Ile Asp Thr Val Ala Asn Val Arg
 290 295 300
 Glu Gly Ala Asp Ala Ile Tyr Thr Gly Thr Ser Glu Ile Ala Met Gly
 305 310 315 320
 Asn Asn Asp Leu Ser Ser Arg Thr Glu Gln Gln Ala Ser Ala Leu Glu
 325 330 335
 Glu Thr Ala Ala Ser Met Glu Gln Leu Thr Ala Thr Val Lys Gln Asn
 340 345 350
 Ala Asp Asn Ala Arg Gln Ala Ser Gln Leu Ala Glu Ser Ala Ser Asp
 355 360 365
 Thr Ala Gln Arg Gly Gly Arg Val Val Asp Gly Val Val Lys Thr Met
 370 375 380
 His Asp Ile Ala Asp Ser Ser Lys Lys Ile Ala Asp Ile Ile Ser Val
 385 390 395 400
 Ile Asp Gly Ile Ala Phe Gln Thr Asn Ile Leu Ala Leu Asn Ala Ala
 405 410 415
 Val Glu Ala Ala Arg Ala Gly Glu Gln Gly Arg Gly Phe Ala Val Val
 420 425 430
 Ala Gly Glu Val Arg Asn Leu Ala Ser Arg Ser Ala Asn Ala Ala Lys
 435 440 445
 Glu Ile Lys Ala Leu Ile Glu Asp Ser Val Ser Arg Val Asp Thr Gly
 450 455 460
 Ser Val Leu Val Glu Ser Ala Gly Glu Thr Met Asn Asp Ile Val Asn
 465 470 475 480
 Ala Val Thr Arg Val Thr Asp Ile Met Gly Glu Ile Ala Ser Ala Ser
 485 490 495
 Asp Glu Gln Ser Arg Gly Ile Asp Gln Val Ala Leu Ala Val Ser Glu
 500 505 510
 Met Asp Arg Val Thr Gln Gln Asn Ala Ala Leu Val Gln Glu Ser Ala
 515 520 525
 Ala Ala Ala Ala Ala Leu Glu Asp Gln Ala Ser Arg Leu Lys Met Ala
 530 535 540
 Val Ser Ala Phe Arg Leu Thr Ser Lys Thr Thr Asn Thr Val Ser Ser
 545 550 555 560
 Arg Ser Val Tyr Gly Glu Ala Ala Pro Ala Pro Val Thr Ala Arg Thr
 565 570 575
 Arg Ala Ala Val Thr Gly Gln Asp Glu Asn Trp Glu Thr Phe
 580 585 590

<210> 8756

<211> 292

<212> PRT

<213> *Enterobacter cloacae*

<400> 8756

Glu Gly Ala Met Thr Ser Pro Met Pro Ser Gly Gln Thr Ser Leu Leu
 1 5 10 15
 Leu Gln Met Thr Gln Arg Leu Ala Leu Ser Asp Ala His Phe Arg Arg
 20 25 30
 Ile Cys Gln Leu Ile Tyr Gln Arg Ala Gly Ile Val Leu Ala Asp His
 35 40 45

Lys Arg Asp Met Val Tyr Asn Arg Leu Val Arg Arg Leu Arg Thr Leu
 50 55 60
 Gly Leu Tyr Asp Phe Gly Arg Tyr Leu Ser Met Leu Glu Ala Asn Gln
 65 70 75 80
 Asn Ser Ala Glu Trp Gln Ala Phe Ile Asn Ser Leu Thr Thr Asn Leu
 85 90 95
 Thr Ala Phe Phe Arg Glu Ala His His Phe Pro Val Leu Ala Glu His
 100 105 110
 Ala Arg Arg Arg Gly Gly Glu Tyr Arg Val Trp Ser Ala Ala Ser
 115 120 125
 Thr Gly Glu Glu Pro Tyr Ser Leu Ala Ile Thr Leu Ala Asp Thr Leu
 130 135 140
 Gly Met Ala Pro Gly Arg Trp Lys Val Tyr Ala Ser Asp Ile Asp Thr
 145 150 155 160
 Glu Val Leu Glu Lys Ala Arg Asn Gly Val Tyr Arg Gln Asp Glu Leu
 165 170 175
 Lys Thr Leu Ser Pro Gln Gln Leu Gln Arg Tyr Phe Met Arg Gly Thr
 180 185 190
 Gly Pro His Glu Gly Leu Val Arg Val Arg Gln Glu Leu Ala Asn Cys
 195 200 205
 Val Glu Phe Ala Pro Val Asn Leu Leu Asp Lys Gln Tyr Asn Val Pro
 210 215 220
 Gly Pro Phe Asp Ala Ile Phe Cys Arg Asn Val Met Ile Tyr Phe Asp
 225 230 235 240
 Lys Thr Thr Gln Gln Asp Ile Leu Arg Arg Phe Val Pro Leu Leu Lys
 245 250 255
 Pro Asp Gly Leu Leu Phe Ala Gly His Ser Glu Asn Phe Ser Asn Leu
 260 265 270
 Val Arg Glu Phe Ser Leu Arg Gly Gln Thr Val Tyr Ala Leu Ser Lys
 275 280 285
 Glu Lys Ala
 290

<210> 8757

<211> 698

<212> PRT

<213> Enterobacter cloacae

<400> 8757

Thr Arg Arg Thr Leu Met Ala Asn Leu Val Ala Met Leu Arg Leu Pro
 1 5 10 15
 Gly Asn Leu Lys Ser Thr Gln Trp Gln Ile Leu Ala Gly Pro Ile Leu
 20 25 30
 Ile Leu Leu Ile Leu Ser Met Met Val Leu Pro Leu Pro Ala Phe Ile
 35 40 45
 Leu Asp Leu Leu Phe Thr Phe Asn Ile Ala Leu Ser Ile Met Val Leu
 50 55 60
 Leu Val Ala Met Phe Thr Gln Arg Thr Leu Glu Phe Ala Ala Phe Pro
 65 70 75 80
 Thr Ile Leu Leu Phe Thr Thr Leu Leu Arg Leu Ala Leu Asn Val Ala
 85 90 95
 Ser Thr Arg Ile Ile Leu Met Glu Gly His Thr Gly Ala Ala Ala Ala
 100 105 110
 Gly Lys Val Val Glu Ala Phe Gly His Phe Leu Val Gly Gly Asn Phe
 115 120 125
 Ala Ile Gly Ile Val Val Phe Val Ile Leu Val Ile Ile Asn Phe Met
 130 135 140
 Val Ile Thr Lys Gly Ala Gly Arg Ile Ala Glu Val Gly Ala Arg Phe
 145 150 155 160
 Val Leu Asp Gly Met Pro Gly Lys Gln Met Ala Ile Asp Ala Asp Leu
 165 170 175

Asn Ala Gly Leu Ile Ala Glu Asp Glu Ala Lys Lys Arg Arg Ala Glu
 180 185 190
 Val Thr Gln Glu Ala Asp Phe Tyr Gly Ser Met Asp Gly Ala Ser Lys
 195 200 205
 Phe Val Arg Gly Asp Ala Ile Ala Gly Ile Leu Ile Met Val Ile Asn
 210 215 220
 Val Val Gly Gly Leu Leu Val Gly Val Leu Gln His Gly Met Asp Met
 225 230 235 240
 Gly His Ala Ala Glu Ser Tyr Thr Leu Leu Thr Ile Gly Asp Gly Leu
 245 250 255
 Val Ala Gln Ile Pro Ala Leu Val Ile Ser Thr Ala Ala Gly Val Ile
 260 265 270
 Val Thr Arg Val Ser Thr Asp Gln Asp Val Gly Glu Gln Met Val Gly
 275 280 285
 Gln Leu Phe Ser Asn Pro Arg Val Met Leu Leu Ser Ala Ala Val Leu
 290 295 300
 Gly Leu Leu Gly Met Val Pro Gly Met Pro Asn Leu Val Phe Leu Leu
 305 310 315 320
 Phe Thr Ala Ala Leu Leu Gly Leu Ala Trp Trp Met Arg Gly Arg Glu
 325 330 335
 Thr Gln Pro Lys Ala Glu Pro Ala Pro Val Lys Met Pro Glu Asn Thr
 340 345 350
 Gln Ala Val Glu Ala Thr Trp Asn Asp Val Gln Leu Glu Asp Ser Leu
 355 360 365
 Gly Met Glu Val Gly Tyr Arg Leu Ile Pro Met Val Asp Phe Gln Gln
 370 375 380
 Asp Gly Glu Leu Leu Gly Arg Ile Arg Ser Ile Arg Lys Lys Phe Ala
 385 390 395 400
 Gln Asp Met Gly Phe Leu Pro Pro Val Val His Ile Arg Asp Asn Met
 405 410 415
 Asp Leu Pro Pro Ala Arg Tyr Arg Ile Leu Met Lys Gly Val Glu Ile
 420 425 430
 Gly Ser Gly Asp Ala Tyr Pro Gly Arg Trp Leu Ala Ile Asn Pro Gly
 435 440 445
 Thr Ala Ala Gly Thr Leu Pro Gly Glu Gln Thr Thr Asp Pro Ala Phe
 450 455 460
 Gly Leu Ala Ala Ile Trp Ile Glu Ser Ala Leu Lys Glu Gln Ala Gln
 465 470 475 480
 Ile Gln Gly Tyr Thr Val Val Glu Ala Ser Thr Val Val Ala Thr His
 485 490 495
 Leu Asn His Leu Ile Gly Gln Phe Ser Ala Glu Leu Phe Gly Arg Gln
 500 505 510
 Glu Ala Gln Gln Leu Leu Asp Arg Val Thr Gln Glu Met Pro Lys Leu
 515 520 525
 Thr Glu Asp Leu Val Pro Gly Val Leu Thr Leu Thr Thr Leu His Lys
 530 535 540
 Val Leu Gln Asn Leu Leu Asp Glu Lys Val Pro Ile Arg Asp Met Arg
 545 550 555 560
 Thr Ile Leu Glu Thr Leu Ala Glu His Ala Pro Leu Gln Ser Asp Pro
 565 570 575
 His Glu Leu Thr Ala Val Val Arg Val Ala Leu Gly Arg Ala Ile Thr
 580 585 590
 Gln Gln Trp Phe Pro Gly Thr Gly Glu Val Gln Val Ile Gly Leu Asp
 595 600 605
 Thr Pro Leu Glu Arg Leu Leu Leu Gln Ala Leu Gln Gly Gly Gly Gly
 610 615 620
 Leu Glu Pro Gly Leu Ala Asp Arg Leu Leu Ala Gln Thr Gln Glu Ala
 625 630 635 640
 Leu Ala Arg Gln Glu Met Leu Gly Ala Pro Pro Val Leu Leu Val Asn
 645 650 655
 His Ala Leu Arg Pro Leu Leu Ser Arg Phe Leu Arg Arg Ser Leu Asn

660
 Gln Leu Val Val Leu Ser Asn Met
 675
 665
 Glu Leu Ser Asp Asn Arg Asn Ile
 680
 670
 Arg Met Thr Ala Thr Ile Gly Gly Lys
 690
 685

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<210> 8758
<211> 389
<212> PRT
<213> Enterobacter cloacae
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400> 8758	Ile	Arg	His	Thr	Thr	Glu	Val	Lys	Met	Lys	Val	Trp	Pro	Val	Lys
1	His	Ser	Pro	Leu	Leu	Arg	Gln	Pro	Glu	Arg	Phe	Ile	Ala	Arg	Glu
				20					25				30		
Leu	Lys	Ser	Leu	Ile	Gln	Lys	Val	Thr	His	Asn	Leu	Val	Asn	Ile	His
			35				40					45			
Asp	Lys	Thr	Gly	Glu	Phe	Leu	Leu	Arg	Leu	Asp	Asp	Gly	Arg	Val	Ile
			50			55					60				
Asp	Thr	Lys	Gly	Trp	Ala	Gly	Trp	Glu	Trp	Thr	His	Gly	Val	Gly	Leu
65				70						75					80
Tyr	Gly	Ile	Trp	Gln	Tyr	Tyr	Cys	Gln	Thr	Gly	Asp	Glu	Gly	Met	Arg
				85					90					95	
Glu	Val	Ile	Asp	Ser	Trp	Phe	Thr	Asp	Arg	Phe	Ala	Glu	Gly	Ala	Thr
				100				105					110		
Thr	Lys	Asn	Val	Asn	Thr	Met	Ser	Pro	Phe	Leu	Thr	Leu	Ala	Tyr	Arg
			115				120					125			
Tyr	Glu	Glu	Thr	Lys	Asn	Pro	Ala	Trp	Leu	Pro	Trp	Leu	Glu	Ser	Trp
			130			135					140				
Ala	Glu	Trp	Ala	Met	Asn	Asp	Met	Pro	Arg	Thr	Glu	His	Gly	Gly	Met
145					150					155					160
Gln	His	Ile	Thr	Leu	Ala	Glu	Glu	Asn	His	Gln	Gln	Met	Tyr	Asp	Asp
				165					170					175	
Thr	Leu	Met	Met	Thr	Val	Leu	Pro	Leu	Ala	Lys	Ile	Gly	Lys	Leu	Leu
			180					185					190		
Asn	Lys	Pro	Glu	Tyr	Val	Glu	Glu	Ala	Ile	Tyr	Gln	Phe	Leu	Leu	His
			195			200						205			
Val	Gln	Asn	Leu	Met	Asp	Arg	Glu	Thr	Gly	Leu	Trp	Phe	His	Gly	Trp
			210			215					220				
Asn	Tyr	Asp	Gly	Asn	His	Asn	Phe	Val	Arg	Ala	Arg	Trp	Ala	Arg	Gly
				230						235				240	
225															
Asn	Ser	Trp	Leu	Thr	Ile	Val	Ile	Pro	Asp	Phe	Leu	Glu	Val	Val	Asp
				245					250					255	
Leu	Pro	Glu	Asn	Asn	Ala	Val	Arg	Arg	Tyr	Leu	Val	Gln	Val	Leu	Asn
			260					265				270			
Ala	Gln	Thr	Ala	Ala	Leu	Ala	Lys	Phe	Gln	Asp	Glu	Ser	Gly	Leu	Trp
			275				280					285			
His	Thr	Leu	Leu	Asp	Asp	Pro	Glu	Ser	Tyr	Leu	Glu	Ala	Ser	Ala	Thr
			290			295					300				
Ala	Gly	Phe	Ala	Tyr	Gly	Ile	Leu	Lys	Ala	Val	Arg	Lys	Arg	Tyr	Val
				310						315				320	
305															
Gly	Ala	Glu	Tyr	Ala	Glu	Val	Ala	Glu	Lys	Ala	Ile	Arg	Gly	Ile	Val
				325					330					335	
Lys	Asn	Ile	Ser	Pro	Glu	Gly	Glu	Leu	Leu	Gln	Thr	Ser	Phe	Gly	Thr
			340												

385

<210> 8759

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 8759

Gln	Lys	Tyr	Val	Gln	Lys	Asn	Leu	Phe	Pro	Leu	Asp	Asp	Val	Ile	Asp	
1				5				10					15			
Asn	Val	Gln	Glu	Glu	Thr	Lys	Asp	Leu	Asp	Ile	Gly	Asp	Leu	Gln	Val	
		20						25					30			
Ala	Gln	Lys	Val	Val	Met	Glu	Lys	Ile	Thr	Gln	Ser	Val	Glu	Ser	Val	
		35				40						45				
Cys	Glu	Lys	Thr	Tyr	Ser	Thr	Lys	Trp	Glu	Thr	Ser	Asp	Leu	Ile	Thr	
	50					55					60					
Phe	Asp	Asn	Lys	Asp	Lys	Tyr	Ala	Arg	Ile	Ser	Lys	Asn	Asn	Thr	Gly	
65				70					75					80		
Arg	Lys	Ile	Arg	Ser	Glu	Phe	Asn	Arg	Ile	Asn	Ala	Gly	Phe	Ile	Lys	
				85					90				95			
Glu	Leu	Glu	Glu	Phe	Ile	Lys	Glu	Thr	Leu	Lys	Val	Ser	Glu			
			100					105					110			

<210> 8760

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 8760

Tyr	Leu	Gln	Glu	Asn	His	Met	Val	Leu	Val	Thr	Arg	Pro	Ala	Pro	Asp	
1				5				10					15			
Phe	Thr	Ala	Ala	Ala	Val	Leu	Gly	Asn	Gly	Glu	Ile	Val	Glu	Asn	Phe	
		20						25					30			
Asn	Phe	Lys	Gln	His	Thr	Asn	Gly	Lys	Ala	Thr	Val	Leu	Phe	Phe	Trp	
		35				40					45					
Pro	Met	Asp	Phe	Thr	Phe	Val	Cys	Pro	Ser	Glu	Leu	Ile	Ala	Phe	Asp	
	50					55				60						
Lys	Arg	Tyr	Glu	Glu	Phe	Gln	Lys	Arg	Gly	Val	Glu	Val	Val	Gly	Val	
65				70				75						80		
Ser	Phe	Asp	Ser	Glu	Phe	Val	His	Asn	Ala	Trp	Arg	Asn	Thr	Pro	Val	
			85					90					95			
Glu	Asn	Gly	Gly	Ile	Gly	Ala	Val	Lys	Tyr	Ala	Met	Val	Ala	Asp	Ile	
		100						105					110			
Lys	Arg	Glu	Ile	Gln	Gln	Ala	Tyr	Gly	Ile	Glu	His	Pro	Asp	Ala	Gly	
		115				120						125				
Val	Ala	Leu	Arg	Gly	Ser	Phe	Leu	Ile	Asp	Ala	Asn	Gly	Ile	Val	Arg	
		130				135					140					
His	Gln	Val	Val	Asn	Asp	Leu	Pro	Leu	Gly	Arg	Asn	Ile	Asp	Glu	Met	
145				150					155					160		
Leu	Arg	Met	Val	Asp	Ala	Leu	Gln	Phe	His	Glu	Glu	His	Gly	Glu	Val	
				165				170					175			
Cys	Pro	Ala	Gln	Trp	Glu	Lys	Gly	Lys	Glu	Gly	Met	Ala	Ala	Ser	Pro	
		180						185					190			
Asp	Gly	Val	Ala	Lys	Tyr	Leu	Ser	Glu	Asn	Val	Ser	Ser	Leu			
		195					200					205				

<210> 8761

<211> 1049

<212> PRT

<213> Enterobacter cloacae

<400> 8761

Arg Gly Arg Lys Arg Met Lys Ile Leu Ser Leu Arg Leu Lys Asn Leu
 1 5 10 15
 Asn Ser Leu Lys Gly Glu Trp Lys Ile Asp Phe Thr Ala Glu Pro Phe
 20 25 30
 Ala Ser Asn Gly Leu Phe Ala Ile Thr Gly Ala Thr Gly Ala Gly Lys
 35 40 45
 Thr Thr Leu Leu Asp Ala Ile Cys Leu Ala Leu Tyr His Glu Thr Pro
 50 55 60
 Arg Leu Asn Lys Val Ser Gln Ala Gln Asn Asp Leu Met Thr Arg Asp
 65 70 75 80
 Thr Ala Glu Cys Leu Ala Glu Val Glu Phe Glu Val Lys Gly Val Ala
 85 90 95
 Tyr Arg Ala Phe Trp Ser Gln Asn Arg Ala Arg Asn Gln Pro Asp Gly
 100 105 110
 Asn Leu Gln Ala Pro Arg Val Glu Leu Ala Arg Cys Glu Asp Gly Lys
 115 120 125
 Ile Leu Ala Asp Lys Val Thr Asp Lys Leu Glu Gln Thr Ala Ala Leu
 130 135 140
 Thr Gly Leu Asp Tyr Gly Arg Phe Thr Arg Ser Met Leu Leu Ser Gln
 145 150 155 160
 Gly Gln Phe Ala Ala Phe Leu Asn Ala Lys Pro Ser Asp Arg Ala Glu
 165 170 175
 Leu Leu Glu Glu Leu Thr Gly Thr Glu Ile Tyr Gly Gln Ile Ser Ala
 180 185 190
 Met Val Phe Glu Lys His Lys Ala Ala Arg Asn Ala Leu Glu Met Cys
 195 200 205
 Glu Ala Gln Ala Ala Gly Val Val Leu Leu Ser Glu Glu Gln Gln Gln
 210 215 220
 His Leu Gln Gln Ser Leu Gln Ala Leu Thr Asp Glu Glu Lys Ile Leu
 225 230 235 240
 Leu Ala Gln Gln Gln Ser Gln Gln Lys Asp Phe Gln Trp Leu Thr Arg
 245 250 255
 Asn Asp Glu Leu Ile Arg Glu Gln Gln Arg Ala Ala Ala Ser Gln Gln
 260 265 270
 Gln Ala Gln Gln Ala Leu Thr Asp Ala Ala Pro Gln Leu Ala Lys Leu
 275 280 285
 Gln Leu Ala Gln Pro Ala Ala Gln Leu Arg Pro Leu Trp Glu His Gln
 290 295 300
 Gln Glu Gln Thr Ala Arg Leu Ser Gln Thr Ala Glu Arg Ile Val Glu
 305 310 315 320
 Val Asn Thr Arg Leu Leu Asp Arg Ala Ala Gln Arg Ala Cys Ile Arg
 325 330 335
 Asn Gly Ala Gln Arg Asn Arg Glu Gln Leu Gln Thr Glu His Thr Ala
 340 345 350
 Leu Thr Gln Trp Leu Thr Glu His Asp Arg Phe Arg Gln Trp Gly Gln
 355 360 365
 Glu Ile Ala Gly Trp Arg Ala His Phe Thr Gln Leu Asn Arg Asp Lys
 370 375 380
 Asn Gln Leu Val Ala Lys Ala Ala Arg Met Ala Glu Leu Arg Gln Lys
 385 390 395 400
 Leu Ala Glu Met Pro Glu Ser Thr Leu Thr Leu Thr Ala Glu Asp Leu
 405 410 415
 Ala Thr Ala Met Glu Gln Gln Ala Gln Ser Arg Ala Leu Arg Gln Arg
 420 425 430
 Leu Thr Ala Leu His Ala Arg Tyr Gln Pro Leu Gln Lys Arg Leu Arg
 435 440 445
 Gln Asn Ala Glu Ser Val Gln Lys Ala Gln Ala Glu Gln Gly Lys Leu
 450 455 460
 Asn Glu Thr Leu Ile Leu Arg Arg Gln Gln Phe Lys Glu Lys Asn Gln
 465 470 475 480

His Tyr Ala Asp Leu Lys Ala Leu Cys Glu Arg Glu Ala Thr Ile Lys
 485 490 495
 Asp Leu Glu Asn Tyr Arg Ala Gln Leu Glu Ala Gly Lys Pro Cys Pro
 500 505 510
 Leu Cys Gly Ser Arg Glu His Pro Ala Val Val Gln Tyr Gln Ala Leu
 515 520 525
 Glu Leu Thr Asp Asn Gln Arg Arg Arg Ala Leu Glu Lys Glu Val
 530 535 540
 Ala Ala Leu Lys Glu Glu Gly Leu Leu Val Leu Gly Gln Val Asn Ala
 545 550 555 560
 Leu Thr Gln Gln Ile Gln Arg Glu Thr Glu Glu Ala Gln Ala Leu Ser
 565 570 575
 Gln Glu Glu Gln Ala Leu Thr Lys Glu Trp Leu Glu Val Cys Thr Ser
 580 585 590
 Leu Asn Ile Ala Leu Asn Ile Gln Asp Asp Ile Ala Leu Trp Met Ser
 595 600 605
 Ala Gln Glu Gln Tyr Glu Arg Gln Leu Tyr Gln Leu Ser Gln Arg Leu
 610 615 620
 Thr Leu Gln Asn Gln Leu Ile Glu Gln Glu Gly Gln Ala Arg Gln Tyr
 625 630 635 640
 Gln Gln Gln Leu Thr Ala Thr Arg Gln Ala Leu Ala Ala Ser Leu Glu
 645 650 655
 Ser Leu Ser Leu Ser Val Pro Asp Glu Gly Ala Glu Ser Ala Trp Leu
 660 665 670
 Ser Ala Arg Glu Ser Glu Tyr Thr Leu Trp Gln Glu Lys Gln Ala Gln
 675 680 685
 His Gly Thr Ile Gln Glu Arg Ile Asn Ala Leu Met Pro Ile Leu Glu
 690 695 700
 Thr Leu Pro Val Thr Asp Asp Thr Glu Ala Asp Ala Val Ile Pro Glu
 705 710 715 720
 Lys Trp Arg Gly Ile His Asp Glu Cys Val Ser Leu Gln Ser Gln Leu
 725 730 735
 Thr Thr Leu Gln Gln Gln Glu Thr Leu Glu Arg Glu Arg Leu Gln Gln
 740 745 750
 Ser Gln Ala Gln Phe Asn Ala Ala Leu Thr Ala Ser Cys Phe Ala Asp
 755 760 765
 Arg Glu Ala Phe Leu Ser Ala Leu Leu Asp Glu Ala Ser Ile Arg Gln
 770 775 780
 Leu Glu Gln Gln Lys Gln Thr Leu Glu Asn Gln Leu Gln Gln Thr Thr
 785 790 795 800
 Ala Leu Ser Val Gln Ala Ser Gln Gln Leu Gln Ala His Gln Ala Gln
 805 810 815
 Arg Pro Glu Gly Leu Glu Thr Asp Ala Ala Thr Leu Gln Ala Gln Leu
 820 825 830
 His Gln Leu Ala Gln Gln Leu Arg Asp Asn Thr Thr His Gln Gly Glu
 835 840 845
 Ile Arg Gln Gln Leu Lys Gln Asp Ala Asp Asn Arg Leu His Gln Gln
 850 855 860
 Ala Leu Met Gln Gln Ile Glu Glu Ala Ala Arg Gln Ala Asp Asp Trp
 865 870 875 880
 Gly Tyr Leu Asn Ala Leu Ile Gly Ser Ser Thr Gly Asp Lys Phe Arg
 885 890 895
 Lys Phe Ala Gln Gly Leu Thr Leu Asp Asn Leu Val Trp Leu Ala Asn
 900 905 910
 Gln Gln Leu Asn Arg Leu His Gly Arg Tyr Leu Leu Gln Arg Lys Ala
 915 920 925
 Ser Asp Ala Leu Glu Leu Glu Val Val Asp Thr Trp Gln Ala Asp Ala
 930 935 940
 Ile Arg Asp Thr Arg Thr Leu Ser Gly Gly Glu Ser Phe Leu Val Ser
 945 950 955 960
 Leu Ala Leu Ala Leu Ala Leu Ser Asp Leu Val Ser His Lys Thr Arg

965 970 975
 Ile Asp Ser Leu Phe Leu Asp Glu Gly Phe Gly Thr Leu Asp Ser Glu
 980 985 990
 Thr Leu Asp Thr Ala Leu Asp Ala Leu Asp Ala Leu Asn Ala Thr Gly
 995 1000 1005
 Lys Thr Ile Gly Val Ile Ser His Val Glu Ala Met Lys Glu Arg Ile
 1010 1015 1020
 Pro Val Gln Ile Lys Val Lys Lys Ile Asn Gly Leu Gly Tyr Ser Arg
 1025 1030 1035 1040
 Leu Asp Arg Glu Phe Ala Val Asn
 1045

<210> 8762

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 8762

Phe Asn Asp Lys Ala Val Glu Ile Ile Met Leu Trp Phe Lys Asn Leu
 1 5 10 15
 Met Val Tyr Arg Leu Ser Arg Asp Val Ser Leu His Ala Glu Met
 20 25 30
 Glu Lys Gln Leu Ala Ala Tyr Ser Phe Thr Pro Cys Gly Ser Gln Asp
 35 40 45
 Met Ala Lys Thr Gly Trp Val Pro Met Gly Ser Gln Ser Asp Ala
 50 55 60
 Leu Thr His Ala Ser Ser Thr Gly Gln Ile Ile Val Cys Ala Arg Lys
 65 70 75 80
 Glu Glu Lys Ile Leu Pro Thr Pro Val Val Lys Gln Ala Leu Glu Ala
 85 90 95
 Lys Ile Phe Lys Leu Glu Ala Glu Gln Gly Arg Lys Leu Lys Lys Thr
 100 105 110
 Glu Lys Asp Ser Leu Lys Asp Glu Val Leu His Ser Leu Leu Pro Arg
 115 120 125
 Ala Phe Ser Arg Phe Ser Gln Thr Met Met Trp Ile Asp Thr Val Asn
 130 135 140
 Gly Leu Ile Met Val Asp Cys Ala Ser Ala Lys Lys Ala Glu Asp Thr
 145 150 155 160
 Leu Ala Leu Leu Arg Lys Ser Leu Gly Ser Leu Pro Val Val Pro Leu
 165 170 175
 Ala Leu Glu Thr Pro Ile Glu Leu Thr Leu Thr Glu Trp Val Arg Ser
 180 185 190
 Gly Thr Ala Ala Gln Gly Phe Gln Ile Leu Asp Glu Ala Glu Leu Lys
 195 200 205
 Ala Leu Leu Glu Asp Gly Gly Val Ile Arg Ala Lys Lys Gln Glu Leu
 210 215 220
 Val Ser Asp Glu Ile Ala Val His Ile Glu Ala Gly Lys Val Val Thr
 225 230 235 240
 Lys Leu Ala Leu Asp Trp Gln Gln Arg Ile Gln Phe Val Met Cys Asp
 245 250 255
 Asp Gly Ser Val Lys Arg Leu Lys Phe Cys Asp Glu Leu Arg Asp Gln
 260 265 270
 Asn Glu Asp Ile Asp Arg Glu Asp Tyr Ala Gln Arg Phe Asp Ala Asp
 275 280 285
 Phe Ile Leu Met Thr Gly Glu Leu Ala Ala Leu Ile Gln Asn Leu Val
 290 295 300
 Glu Gly Leu Gly Gly Glu Ala Gln Arg
 305 310

<210> 8763

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 8763

Arg Arg Asp Val Met Asp Lys Lys Ile Gly Phe Ile Gly Cys Gly Asn
 1 5 10 15
 Met Gly Lys Ala Ile Leu Gly Gly Leu Ile Ala Ser Gly Gln Val Leu
 20 25 30
 Pro Gly Gln Ile Trp Val Tyr Thr Pro Ser Pro Asp Lys Val Ala Ala
 35 40 45
 Leu Arg Asp Glu Tyr Gly Val Asn Ala Ala Glu Ser Ala Gln Glu Val
 50 55 60
 Ala Gln Val Ala Asp Ile Val Phe Gly Ala Val Lys Pro Asn Ile Met
 65 70 75 80
 Ile Lys Val Leu Ser Glu Ile Thr Ser Ser Leu Asn Lys Glu Thr Leu
 85 90 95
 Val Val Ser Ile Ala Ala Gly Val Thr Leu Asp Gln Leu Ala Arg Ala
 100 105 110
 Leu Gly His Asp Arg Lys Ile Val Arg Ala Met Pro Asn Thr Pro Ser
 115 120 125
 Leu Val Asn Ala Gly Met Thr Ser Val Thr Pro Asn Ala Leu Val Thr
 130 135 140
 Ser Glu Asp Val Ala Asp Val Leu Asn Ile Phe Arg Cys Phe Gly Glu
 145 150 155 160
 Ala Glu Val Ile Ala Glu Pro Met Ile His Pro Val Val Gly Val Ser
 165 170 175
 Gly Ser Ala Pro Ala Tyr Val Phe Met Phe Ile Glu Ala Met Ala Asp
 180 185 190
 Ala Ala Val Leu Gly Gly Met Pro Arg Ala Gln Ala Tyr Lys Phe Ala
 195 200 205
 Ala Gln Ala Val Met Gly Ser Ala Lys Met Val Leu Glu Thr Gly Lys
 210 215 220
 His Pro Gly Glu Leu Lys Asp Met Val Cys Ser Pro Gly Gly Thr Thr
 225 230 235 240
 Ile Glu Ala Val Arg Val Leu Glu Asp Arg Gly Phe Arg Ser Ala Val
 245 250 255
 Ile Glu Ala Met Glu Lys Cys Met Glu Lys Ser Glu Lys Leu Ser Lys
 260 265 270
 Ser

<210> 8764

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 8764

Thr Ser Gly Met Ile Met Lys Lys Thr Leu Leu Ala Ala Gly Ala Val
 1 5 10 15
 Leu Ala Leu Ser Ser Ser Phe Thr Val Asn Ala Ala Glu Asn Asp Lys
 20 25 30
 Pro Gln Tyr Leu Ser Asp Trp Trp His Gln Ser Val Asn Val Val Gly
 35 40 45
 Ser Tyr His Thr Arg Phe Gly Pro Gln Ile Arg Asn Asp Thr Tyr Leu
 50 55 60
 Glu Tyr Glu Ala Phe Ala Lys Lys Asp Trp Phe Asp Phe Tyr Gly Tyr
 65 70 75 80
 Met Asp Ala Pro Val Phe Phe Gly Gly Asn Thr Asp Ala Lys Gly Ile
 85 90 95
 Trp Asn His Gly Ser Pro Leu Phe Met Glu Ile Glu Pro Arg Phe Ser
 100 105 110

Ile Asp Lys Leu Thr Gly Thr Ser Leu Ala Phe Gly Pro Phe Lys Glu
 115 120 125
 Trp Tyr Phe Ala Asn Asn Tyr Ile Tyr Asp Met Gly Arg Asn Lys Ser
 130 135 140
 Gly Arg Gln Ser Thr Trp Tyr Met Gly Leu Gly Thr Asp Ile Glu Thr
 145 150 155 160
 Gly Leu Pro Met Ser Leu Ser Met Asn Val Tyr Ala Lys Tyr Gln Trp
 165 170 175
 Gln Asn Tyr Gly Ala Ala Asn Glu Asn Glu Trp Asp Gly Tyr Arg Phe
 180 185 190
 Lys Val Lys Tyr Phe Val Pro Ile Thr Gln Leu Trp Gly Gly Asn Leu
 195 200 205
 Ser Tyr Ile Gly Phe Thr Asn Phe Asp Trp Gly Ser Asp Leu Gly Asp
 210 215 220
 Asn Asp Phe Arg Asp Leu Asn Gly Arg Lys Ala Arg Thr Asn Asp Ser
 225 230 235 240
 Ile Ala Ser Ser His Ile Leu Ala Leu Asn Tyr Asp His Trp His Tyr
 245 250 255
 Ser Val Val Ala Arg Tyr Trp His Asn Gly Gly Gln Trp Asn Asp Asp
 260 265 270
 Ala Ser Leu Asn Phe Gly Asn Gly Asp Phe Ser Val Arg Ser Thr Gly
 275 280 285
 Trp Gly Gly Tyr Leu Val Val Gly Tyr Asn Phe
 290 295 300

<210> 8765

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 8765

Gln Ile Tyr Glu Lys His Tyr His Tyr Lys Trp Gln Thr Val Val Leu
 1 5 10 15
 Leu Gln Arg Leu Phe Ser Val Pro Arg Lys Phe Ile Ile Leu Leu Ser
 20 25 30
 Tyr Tyr Cys His Gly Ser Phe Met Arg Ile Leu His Thr Ser Asp Trp
 35 40 45
 His Leu Gly Gln Asn Phe Tyr Ser Lys Ser Arg Ala Ala Glu His Glu
 50 55 60
 Ala Phe Leu Asn Trp Leu Leu Glu Thr Ala Gln Ala His Glu Val Asp
 65 70 75 80
 Ala Ile Ile Val Ala Gly Asp Ile Phe Asp Thr Gly Ser Pro Pro Ser
 85 90 95
 Tyr Ala Arg Glu Leu Tyr Asn Arg Phe Val Val Asn Leu Gln Gln Thr
 100 105 110
 Gly Cys His Leu Val Ile Val Ala Gly Asn His Asp Ser Val Ala Thr
 115 120 125
 Leu Asn Glu Ser Arg Asp Ile Leu Ala Phe Leu Asn Thr Thr Val Val
 130 135 140
 Ala Ser Ala Gly His Ala Pro Gln Ile Leu Lys Lys Arg Asp Gly Thr
 145 150 155 160
 Pro Gly Ala Val Leu Cys Pro Ile Pro Phe Leu His Pro Arg Asp Ile
 165 170 175
 Val Gln Ser Gln Ala Gly Leu Ser Gly Ser Glu Lys Gln Gln His Leu
 180 185 190
 Leu Gln Ala Ile Thr Arg Tyr Tyr His Gln Gln His Thr Glu Ala Cys
 195 200 205
 Ala Leu Arg Gly Asp Gln Ala Ile Pro Ile Ile Ala Thr Gly His Leu
 210 215 220
 Thr Thr Val Gly Ala Ser Lys Ser Asp Ala Val Arg Glu Ile Tyr Ile
 225 230 235 240

Gly Thr Leu Asp Ala Phe Pro Ala Gln Asn Phe Pro Pro Ala Asp Tyr
 245 250 255
 Ile Ala Leu Gly His Ile His Arg Ala Gln Ile Ile Gly Cys Glu
 260 265 270
 His Ile Arg Tyr Cys Gly Ser Pro Ile Ser Leu Ser Phe Asp Glu Thr
 275 280 285
 Gly Lys Ala Lys Ser Val His Leu Val Ser Phe Thr Gly Gly Lys Leu
 290 295 300
 Ser Ala Val Glu Thr Leu Glu Val Pro Val Thr Gln Pro Leu Ala Val
 305 310 315 320
 Leu Lys Gly Asp Leu Ala Ala Ile Thr Ala Gln Leu Asp Gln Trp Arg
 325 330 335
 Gly Thr Ala Leu Asn Pro Pro Val Trp Leu Asp Ile Glu Ile Thr Thr
 340 345 350
 Asp Asp Tyr Leu Tyr Asp Met Gln Arg Lys Ile Gln Thr Leu Thr Glu
 355 360 365
 Asp Leu Pro Val Glu Val Leu Leu Val Arg Arg Ser Arg Glu Gln Arg
 370 375 380
 Glu Lys Ile Leu Leu Asn Ala Gln Arg Glu Thr Leu Ser Glu Leu Arg
 385 390 395 400
 Val Glu Glu Val Phe Ala Arg Arg Leu Ala His Glu Glu Val Asp Glu
 405 410 415
 Ala Arg Arg Thr Arg Leu Asn Glu Leu Phe Ala Gln Thr Leu His Ser
 420 425 430
 Leu His Asp Glu Asp Glu Asn Ala
 435 440

<210> 8766

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 8766

Ser Ser Ala His Thr Leu Leu Leu Gln Gln Leu Ala Ala Thr Gly Gln
 1 5 10 15
 Arg Lys Arg Met Asn Phe Leu Ala His Leu His Leu Ala His Leu Ala
 20 25 30
 Asp Ser Ser Leu Ser Gly Asn Leu Leu Ala Asp Phe Val Arg Gly Asn
 35 40 45
 Pro Ala Glu Ala Tyr Ser Pro Glu Val Val Asp Gly Ile Phe Met His
 50 55 60
 Arg Arg Ile Asp Val Leu Thr Asp Asn Leu Pro Glu Val Thr Glu Ala
 65 70 75 80
 Lys Thr Trp Phe Arg Pro Glu Thr Arg Arg Val Ala Pro Ile Thr Leu
 85 90 95
 Asp Val Met Trp Asp His Phe Leu Ser Arg His Trp Pro Gln Leu Ser
 100 105 110
 Pro Asp Met Ser Leu Pro Glu Phe Val Arg Tyr Ala His Ala Gln Val
 115 120 125
 Ser Ile Ile Leu Pro Asp Ser Pro Pro Arg Phe Val Asn Leu Asn Asn
 130 135 140
 Tyr Leu Trp Ser Glu Arg Trp Leu Glu Arg Tyr Arg Glu Met Asp Phe
 145 150 155 160
 Ile Gln Asn Val Leu Asn Gly Met Ala Ser Arg Arg Pro Arg Leu Asp
 165 170 175
 Ala Leu Arg Asp Ser Trp His Asp Leu Asp Glu His Tyr Asp Ala Leu
 180 185 190
 Glu Thr Arg Phe Trp Gln Phe Tyr Pro Arg Met Met Thr Gln Ala Lys
 195 200 205
 Asn Lys Glu Leu
 210

<210> 8767

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 8767

```

Gly Asn Ser Thr Met Lys Asn Leu Ile Ala Glu Leu Leu Val Lys Leu
1          5          10          15
Ala Gln Lys Glu Glu Glu Ser Lys Glu Leu Val Ala Gln Val Glu Ala
          20          25          30
Leu Glu Ile Val Val Thr Ala Leu Leu Arg Gln Met Ala Lys Pro Glu
          35          40          45
Gln Glu Ala Leu Ile Asp Asn Val Glu Gly Ala Leu Glu Lys Ala Arg
          50          55          60
Pro Asp Ser Gln Val Pro Ala Glu Asp Ala Glu Leu Leu Gln Gln Tyr
65          70          75          80
Val Lys Lys Leu Leu Arg His Pro Arg Ser
          85          90

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<210> 8768

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 8768

```

Ala Met Pro Thr Arg Pro Pro Tyr Pro Arg Glu Ala Arg Ile Val Thr
1          5          10          15
Val Glu Lys Gly Asn Gly Asp Gln Thr Val Thr Trp Tyr Gln Leu Arg
          20          25          30
Ala Asp His Pro Lys Pro Asp Ser Leu Ile Ser Glu His Glu Thr Glu
          35          40          45
Gln Glu Ala Leu Asp Ala Lys Arg Arg Tyr Glu Asp Pro Glu Lys Ser
          50          55          60

```

65

<210> 8769

<211> 369

<212> PRT

<213> Enterobacter cloacae

<400> 8769

```

Leu Phe Phe His Leu Phe Cys Met Gln Arg Asn Val Ala Ala Glu Thr
1          5          10          15
Val Asn His Gln Ile Phe Glu Pro Gln His Asp Asn Phe His Gly Leu
          20          25          30
Val Val Lys Ser Ala Gly Met Ile Thr Asn Cys Arg Ile Ala Cys Ile
          35          40          45
Ala Asn Arg Glu Ala Gly Phe Tyr Ser Val Asp Asn Gln Asn Asn Glu
          50          55          60
Glu Cys Leu Val Arg Ile Gly Ile Asp Leu Gly Gly Thr Lys Thr Glu
65          70          75          80
Val Ile Ala Leu Ser Glu Gln Gly Glu Gln Leu Phe Arg His Arg Leu
          85          90          95
Pro Thr Pro Arg Asp Asp Tyr His Gln Thr Ile Glu Thr Ile Ala Arg
          100          105          110
Leu Val Asp Met Ala Glu Gln Ala Thr Gly Glu Thr Gly Thr Val Gly
          115          120          125
Met Gly Ile Pro Gly Ser Ile Ser Pro Tyr Thr Gly Val Val Lys Asn
          130          135          140

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Ala Asn Ser Thr Trp Leu Asn Gly Gln Pro Phe Asp Lys Asp Leu Ser
 145 150 155 160
 Gln Arg Leu Asn Arg Glu Val Arg Leu Ala Asn Asp Ala Asn Cys Leu
 165 170 175
 Ala Val Ser Glu Ala Val Asp Gly Ala Ala Gly Ala Gln Thr Val
 180 185 190
 Phe Ala Val Ile Ile Gly Thr Gly Cys Gly Ala Gly Val Ala Phe Gly
 195 200 205
 Gly Arg Ser His Ile Gly Gly Asn Gly Thr Ala Gly Glu Trp Gly His
 210 215 220
 Asn Pro Leu Pro Trp Met Asp Glu Asp Glu Leu Lys Tyr Arg Ala Glu
 225 230 235 240
 Val Pro Cys Tyr Cys Gly Lys Gln Gly Cys Ile Glu Thr Phe Ile Ser
 245 250 255
 Gly Thr Gly Phe Ala Thr Asp Tyr His Arg Leu Ser Gly Gln Pro Leu
 260 265 270
 Lys Gly Asn Glu Ile Met Arg Leu Val Glu Glu Gln Asp Pro Val Ala
 275 280 285
 Glu Leu Ala Leu Ser Arg Tyr Glu Met Arg Leu Ala Lys Ser Leu Ala
 290 295 300
 His Val Ile Asn Ile Leu Asp Pro Asp Val Ile Val Leu Gly Gly Gly
 305 310 315 320
 Met Ser Asn Val Asp Arg Leu Tyr Ala Thr Val Pro Thr Leu Val Lys
 325 330 335
 Gln Trp Val Phe Gly Gly Glu Cys Glu Thr Pro Ile Arg Lys Ala Val
 340 345 350
 His Gly Asp Ser Ser Gly Val Arg Gly Ala Ala Trp Leu Trp Pro Glu
 355 360 365

<210> 8770

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 8770

Leu Lys Tyr Asp Lys Thr Gly Gln Ser Met Ala Arg Arg Ile Leu Val
 1 5 10 15
 Val Glu Asp Glu Ala Pro Ile Arg Glu Met Val Cys Phe Val Leu Glu
 20 25 30
 Gln Asn Gly Phe Gln Pro Val Glu Ala Glu Asp Tyr Asp Ser Ala Val
 35 40 45
 Asn Gln Leu Asn Glu Pro Trp Pro Asp Leu Ile Leu Asp Trp Met
 50 55 60
 Leu Pro Gly Gly Ser Gly Leu Gln Phe Ile Lys His Ile Lys Arg Glu
 65 70 75 80
 Ala Met Thr Arg Asp Ile Pro Val Val Met Leu Thr Ala Arg Gly Glu
 85 90 95
 Glu Glu Asp Arg Val Arg Gly Leu Glu Thr Gly Ala Asp Asp Tyr Ile
 100 105 110
 Thr Lys Pro Phe Ser Pro Lys Glu Leu Val Ala Arg Ile Lys Ala Val
 115 120 125
 Met Arg Arg Ile Ser Pro Met Ala Val Glu Glu Val Ile Glu Met Gln
 130 135 140
 Gly Leu Ser Leu Asp Pro Thr Ser His Arg Val Met Thr Gly Glu Asn
 145 150 155 160
 Pro Leu Asp Met Gly Pro Thr Glu Phe Lys Leu Leu His Phe Phe Met
 165 170 175
 Thr His Pro Glu Arg Val Tyr Ser Arg Glu Gln Leu Leu Asn Asn Val
 180 185 190

Trp Gly Thr Asn Val Tyr Val Glu Asp Arg Thr Val Asp Val His Ile
 195 200 205
 Arg Arg Leu Arg Lys Ala Leu Glu Leu Ser Gly His Asp Arg Met Val
 210 215 220
 Gln Thr Val Arg Gly Thr Gly Tyr Arg Phe Ser Thr Arg Phe
 225 230 235

<210> 8771

<211> 433

<212> PRT

<213> *Enterobacter cloacae*

<400> 8771

Arg Val Leu Glu Arg Leu Ser Trp Lys Arg Leu Val Phe Glu Leu Ile
 1 5 10 15
 Leu Cys Cys Ile Pro Ala Leu Ile Leu Gly Ala Ile Phe Gly Tyr Leu
 20 25 30
 Pro Trp Phe Leu Leu Val Ala Val Thr Gly Leu Leu Val Trp His Phe
 35 40 45
 Trp Asn Leu Leu Arg Leu Ser Trp Trp Leu Trp Val Asp Arg Ser Met
 50 55 60
 Thr Pro Pro Pro Gly Ser Gly Ser Trp Glu Pro Leu Leu Tyr Gly Leu
 65 70 75 80
 His Gln Met Gln Met Arg Asn Lys Lys Arg Arg Glu Leu Gly Ser
 85 90 95
 Leu Ile Lys Arg Phe Arg Ser Gly Ala Glu Ser Leu Pro Asp Ala Val
 100 105 110
 Ile Leu Thr Thr Glu Glu Gly Thr Ile Phe Trp Cys Asn Gly Leu Ala
 115 120 125
 Gln Gln Leu Leu Gly Leu Arg Trp Pro Asp Asp Asn Gly Gln Asn Ile
 130 135 140
 Leu Asn Leu Leu Arg Tyr Pro Glu Phe Thr Leu Tyr Leu Lys Lys Arg
 145 150 155 160
 Asp Phe Ser Arg Pro His Asn Leu Lys Leu Asn Asn Gly Arg His Leu
 165 170 175
 Glu Ile Arg Val Met Pro Tyr Ser Asp Arg Gln Trp Leu Met Val Ala
 180 185 190
 Arg Asp Val Thr Gln Met His Gln Leu Glu Gly Ala Arg Arg Asn Phe
 195 200 205
 Phe Ala Asn Val Ser His Glu Leu Arg Thr Pro Leu Thr Val Leu Gln
 210 215 220
 Gly Tyr Leu Glu Met Met Gln Glu Gln Thr Leu Glu Gly Ala Pro Arg
 225 230 235 240
 Glu Lys Ala Leu His Thr Met Arg Glu Gln Thr Phe Arg Met Glu Gly
 245 250 255
 Leu Val Lys Gln Leu Leu Thr Leu Ser Lys Ile Glu Ala Ala Pro Ser
 260 265 270
 Leu Ala Leu Asn Asp Ile Ile Asp Val Pro Met Met Leu Arg Val Val
 275 280 285
 Glu Arg Glu Ala Gln Thr Leu Ser His Asn Gln His Thr Leu Ser Phe
 290 295 300
 Asp Val Asp Asn Thr Leu Lys Val Leu Gly Ser Glu Asp Glu Leu Arg
 305 310 315 320
 Ser Ala Ile Ser Asn Leu Ile Tyr Asn Ala Val Asn His Thr Pro Lys
 325 330 335
 Gly Thr His Ile Ala Val Arg Trp Gln His Thr Pro Ala Gly Ala Glu
 340 345 350
 Phe Ser Val Glu Asp Asn Gly Pro Gly Ile Gly Pro Glu His Leu Pro
 355 360 365
 Arg Leu Thr Glu Arg Phe Tyr Arg Val Asp Lys Ala Arg Ser Arg Gln
 370 375 380

Thr Gly Gly Ser Gly Leu Gly Leu Ala Ile Val Lys His Ala Val Ser
 385 390 395 400
 His His Glu Ser Arg Leu Asn Ile Glu Ser Thr Leu Gly Lys Gly Thr
 405 410 415
 Arg Phe Ser Phe Val Ile Pro Glu Arg Leu Ile Ala Lys Lys Ser Ala
 420 425 430

<210> 8772

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 8772

Gly Phe Met Thr His His Leu Lys Ser Arg Asp Ile Ile Ala Leu Gly
 1 5 10 15
 Phe Met Thr Phe Ala Leu Phe Val Gly Ala Gly Asn Ile Ile Phe Pro
 20 25 30
 Pro Met Val Gly Leu Gln Ala Gly Glu His Val Trp Thr Ala Ala Phe
 35 40 45
 Gly Phe Leu Leu Thr Ala Val Gly Leu Pro Val Leu Thr Val Ile Ala
 50 55 60
 Leu Ala Lys Val Gly Gly Val Asp Ser Leu Ser Thr Pro Ile Gly
 65 70 75 80
 Lys Val Ala Gly Val Leu Leu Ala Thr Val Cys Tyr Leu Ala Val Gly
 85 90 95
 Pro Leu Phe Ala Thr Pro Arg Thr Ala Thr Val Ser Phe Glu Val Gly
 100 105 110
 Ile Ala Pro Leu Thr Gly Asp Gly Ala Met Pro Leu Phe Ile Tyr Ser
 115 120 125
 Leu Ile Tyr Phe Ala Ile Val Ile Leu Val Ser Leu Tyr Pro Gly Lys
 130 135 140
 Leu Leu Asp Thr Val Gly Asn Phe Leu Ala Pro Leu Lys Ile Val Ala
 145 150 155 160
 Leu Ile Val Leu Ala Val Ala Ala Ile Val Trp Pro Ala Gly Pro Ile
 165 170 175
 Ser Ser Ala Met Asp Ala Tyr Gln Asn Ala Ala Phe Ser Asn Gly Phe
 180 185 190
 Val Asn Gly Tyr Leu Thr Met Asp Thr Leu Gly Ala Met Val Phe Gly
 195 200 205
 Ile Val Ile Val Asn Ala Ala Arg Ser Arg Gly Val Thr Glu Ala Arg
 210 215 220
 Leu Leu Thr Arg Tyr Thr Ile Trp Ala Gly Leu Met Ala Gly Val Gly
 225 230 235 240
 Leu Thr Leu Leu Tyr Leu Ala Leu Phe Arg Leu Gly Ser Asp Ser Ala
 245 250 255
 Thr Leu Val Asp Gln Ser Ala Asn Gly Ala Ala Ile Leu His Ala Tyr
 260 265 270
 Val Gln His Thr Phe Gly Gly Ala Gly Ser Met Leu Leu Ala Ala Leu
 275 280 285
 Ile Phe Leu Ala Cys Leu Val Thr Ala Val Gly Leu Thr Cys Ala Cys
 290 295 300
 Ala Glu Phe Phe Ala Gln Tyr Leu Pro Leu Ser Tyr Arg Thr Leu Val
 305 310 315 320
 Phe Ile Leu Gly Ile Phe Ser Met Ala Val Ser Asn Leu Gly Leu Ser
 325 330 335
 His Leu Ile Gln Val Ser Ile Pro Val Leu Thr Ala Ile Tyr Pro Pro
 340 345 350
 Cys Ile Val Leu Val Val Leu Ser Phe Thr Arg Pro Trp Trp His Asn
 355 360 365

Ser Thr Arg Ile Ile Ala Pro Ala Met Phe Ile Ser Leu Ile Phe Gly
 370 375 380
 Ile Leu Asp Gly Ile Lys Ala Ser Ala Phe Ala Glu Ile Leu Pro Ala
 385 390 395 400
 Trp Thr Gln Arg Leu Pro Leu Ser Glu Gln Gly Leu Ala Trp Leu Met
 405 410 415
 Pro Ser Val Val Ala Leu Val Leu Ala Ile Ile Trp Asp Arg Ala Ala
 420 425 430
 Gly Arg Gln Val Thr Ser Asn Ala His
 435 440

<210> 8773

<211> 485

<212> PRT

<213> Enterobacter cloacae

<400> 8773

Ser Thr Ala Thr Asn Cys Leu Thr Thr Gly Leu Lys Ala Pro Trp Phe
 1 5 10 15
 Phe Val Phe Phe Val Leu Asn Gly Lys Ile Leu Met Glu Ser Thr Asn
 20 25 30
 Lys Leu Lys Arg Gly Leu Ser Thr Arg His Ile Arg Phe Met Ala Leu
 35 40 45
 Gly Ser Ala Ile Gly Thr Gly Leu Phe Tyr Gly Ser Ala Asp Ala Ile
 50 55 60
 Lys Met Ala Gly Pro Ser Val Leu Leu Ala Tyr Ile Ile Gly Gly Ala
 65 70 75 80
 Ala Ala Tyr Ile Ile Met Arg Ala Leu Gly Glu Met Ser Val His Asn
 85 90 95
 Pro Ser Ala Ser Ser Phe Ser Arg Tyr Ala Gln Glu Asn Leu Gly Pro
 100 105 110
 Leu Ala Gly Phe Ile Thr Gly Trp Thr Tyr Cys Phe Glu Ile Leu Ile
 115 120 125
 Val Ala Ile Ala Asp Val Thr Ala Phe Gly Ile Tyr Met Gly Val Trp
 130 135 140
 Phe Pro Ala Val Pro His Trp Ile Trp Val Leu Ser Val Val Leu Ile
 145 150 155 160
 Ile Cys Ala Val Asn Leu Met Ser Val Lys Val Phe Gly Glu Leu Glu
 165 170 175
 Phe Trp Phe Ser Phe Phe Lys Val Ala Thr Ile Ile Met Ile Leu
 180 185 190
 Ala Gly Phe Gly Ile Ile Ile Trp Gly Ile Gly Asn Gly Gly Gln Pro
 195 200 205
 Thr Gly Ile His Asn Leu Trp Ser Asn Gly Gly Phe Ser Asn Gly
 210 215 220
 Trp Leu Gly Met Val Met Ser Leu Gln Met Val Met Phe Ala Tyr Gly
 225 230 235 240
 Gly Ile Glu Ile Ile Gly Ile Thr Ala Gly Glu Ala Lys Asp Pro Glu
 245 250 255
 Lys Ser Ile Pro Arg Ala Ile Asn Ser Val Pro Met Arg Ile Leu Val
 260 265 270
 Phe Tyr Val Gly Thr Leu Phe Val Ile Met Ser Ile Tyr Pro Trp Asn
 275 280 285
 Gln Val Gly Thr Asn Gly Ser Pro Phe Val Leu Thr Phe Gln His Met
 290 295 300
 Gly Ile Ala Phe Ala Ala Ser Ile Leu Asn Phe Val Val Leu Thr Ala
 305 310 315 320
 Ser Leu Ser Ala Ile Asn Ser Asp Val Phe Gly Val Gly Arg Met Leu
 325 330 335
 His Gly Met Ala Glu Gln Gly Ser Ala Pro Lys Val Phe Ala Lys Thr
 340 345 350

Ser Arg Arg Gly Thr Pro Trp Val Thr Val Leu Val Met Thr Val Ala
 355 360 365
 Leu Leu Phe Ser Val Tyr Leu Asn Tyr Ile Met Pro Glu Asn Val Phe
 370 375 380
 Leu Val Ile Ala Ser Leu Ala Thr Phe Ala Thr Val Trp Val Trp Ile
 385 390 395 400
 Met Ile Leu Leu Ser Gln Ile Ala Phe Arg Arg Arg Leu Ser Pro Glu
 405 410 415
 Glu Ala Lys Ala Leu Lys Phe Lys Val Pro Gly Gly Val Pro Thr Thr
 420 425 430
 Ile Val Gly Leu Ile Phe Leu Val Phe Ile Ile Gly Leu Ile Gly Tyr
 435 440 445
 His Pro Asp Thr Arg Ile Ser Leu Tyr Val Gly Phe Ala Trp Ile Val
 450 455 460
 Leu Leu Leu Val Gly Trp Met Phe Lys Cys Arg Arg Asp Arg Gln Leu
 465 470 475 480
 Ala Glu Ala Gln
 485

<210> 8774

<211> 615

<212> PRT

<213> Enterobacter cloacae

<400> 8774

Arg Gln Phe His Gln Arg Gly Phe Val Met Leu Asn Ala Trp His Leu
 1 5 10 15
 Pro Val Ala Pro Phe Val Asn Gln Asn Lys Asp Asn Leu Val Ile Thr
 20 25 30
 Leu Trp Leu Ala Gly Asp Asn Gln Pro Glu Arg Val Thr Leu Arg Ala
 35 40 45
 Glu Val Asp Asn Glu Glu Thr Ser Leu Lys Met His Lys Val Arg Ser
 50 55 60
 Gln Pro Gln Pro Gly Val Thr Ala Trp Arg Ala Asn Ile Asp Leu Arg
 65 70 75 80
 Ser Gly Gln Pro Arg Arg Arg Tyr Gly Phe Lys Leu Leu Trp Asn Asn
 85 90 95
 Arg Gln Leu Trp Phe Thr Pro Gln Gly Phe Ser Arg Phe Pro Pro Ala
 100 105 110
 Arg Leu Glu Gln Phe Ala Val Asp His Pro Asp Asn Gly Pro Gln Trp
 115 120 125
 Val Asn Asp Gln Val Phe Tyr Gln Ile Phe Pro Asp Arg Phe Ala Arg
 130 135 140
 Ser Glu Lys Arg Thr Val Asp Gln Asp Lys Val Tyr Tyr His His Ala
 145 150 155 160
 Val Gly His Asp Ile Ile Leu Lys Lys Trp Asp Glu Pro Leu Thr Ala
 165 170 175
 Gln Ala Gly Gly Ser Thr Phe Tyr Gly Gly Asp Leu Asp Gly Ile Ser
 180 185 190
 Glu Lys Leu Pro Tyr Leu Lys Lys Leu Gly Val Thr Ala Leu Tyr Leu
 195 200 205
 Asn Pro Val Phe Lys Ala Pro Ser Val His Lys Tyr Asp Thr Gln Asp
 210 215 220
 Tyr Arg His Val Asp Glu Gln Phe Gly Gly Asp Glu Ala Leu Leu Arg
 225 230 235 240
 Leu Arg His Asn Thr Gln Lys Glu Gly Met Arg Leu Ile Leu Asp Gly
 245 250 255
 Val Phe Asn His Ser Gly Asp Ser His Ala Trp Phe Asp Arg His Asn
 260 265 270
 Gln Ser Met Gly Gly Ala Cys His Asn Pro Asp Ser Pro Gln Arg Asp
 275 280 285

Trp Tyr Ser Phe Asp Glu Asn Gly Arg Ala Leu Asp Trp Leu Gly Tyr
 290 295 300
 Pro Ser Leu Pro Lys Leu Asp Phe Gln Ser Pro Ser Leu Val Asn Glu
 305 310 315 320
 Ile Tyr Gly Gly Asp Asp Ser Ile Val Arg His Trp Leu Lys Ala Pro
 325 330 335
 Trp Asn Met Asp Gly Trp Arg Leu Asp Val His Met Leu Gly Glu
 340 345 350
 Ala Gly Gly Ala Arg Asn Asn Leu Gln His Val Ala Ala Ile Thr Arg
 355 360 365
 Ser Ala Lys Ala Ala Arg Ser Glu Ala Phe Val Phe Gly Glu His Phe
 370 375 380
 Gly Asp Ala Arg Gln Trp Leu Gln Ala Asp Ala Glu Asp Ala Ala Met
 385 390 395 400
 Asn Tyr Arg Gly Phe Thr Phe Pro Leu Trp Gly Phe Leu Ala Asn Thr
 405 410 415
 Asp Ile Ser Tyr Asp Pro Gln His Ile Asp Ala Glu Thr Cys Met Ala
 420 425 430
 Trp Met Glu Asn Tyr Arg Ala Gly Leu Ser His Gln Gln Gln Leu Arg
 435 440 445
 Met Phe Asn Gln Leu Asp Ser His Asp Thr Ala Arg Phe Lys Ser Leu
 450 455 460
 Leu Gly Lys Asp Val Ala Arg Leu Pro Leu Ala Val Thr Trp Leu Phe
 465 470 475 480
 Thr Trp Pro Gly Val Pro Cys Ile Tyr Tyr Gly Asp Glu Val Gly Leu
 485 490 495
 Asp Gly Asn Asn Asp Pro Phe Cys Arg Lys Thr Phe Pro Trp Glu Pro
 500 505 510
 Glu Lys Gln Asp Gln Asp Leu Phe Ser Leu Tyr Gln Arg Met Ala Thr
 515 520 525
 Leu Arg Lys Gln Ser Gln Ala Leu Arg Tyr Gly Gly Cys Gln Val Met
 530 535 540
 Tyr Ala His Asp Asn Val Val Phe Val Arg Val Tyr Asn Gln Gln
 545 550 555 560
 Arg Val Leu Val Ala Ile Asn Arg Gly Glu Ala Cys Glu Val Val Leu
 565 570 575
 Glu Asp Ser Pro Leu Leu Ala Gly Lys Met Trp Lys Ser Lys Glu Gly
 580 585 590
 Lys Ala Thr Phe Gln Gly Ser Val Leu Thr Leu Pro Ala Ile Ser Ala
 595 600 605
 Ala Val Trp Phe Gly Ser
 610 615

<210> 8775

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 8775

Arg Asp Gly Val Ala Gly Ala Gly Ala Arg Gln Arg Asp Met Gly Ala
 1 5 10 15
 Asn Gly Arg Arg His Phe Ala Glu Pro Pro Ala Tyr Phe Arg Ser Ala
 20 25 30
 Gln Ser Leu Leu Ala Gly Cys Gly Leu Ala Val Ala Glu Asn Arg Ala
 35 40 45
 Ala Gly Gln Leu Gly Ile Ala Gly Arg Trp Val Ala Val Leu Val Ser
 50 55 60
 Gly Val Ala Gly Arg Val Ala Val Val Pro Glu Ala Gly Val Ile Ala
 65 70 75 80
 Ser Gly Arg Arg Ala Gly Ala Asp Gly Gly Val Asp Leu Gly Met Ala
 85 90 95

Ala Gly Cys Arg Ser Ser Gly Met Val Gly Ala Gly Cys Gln Gln Met
 100 105 110
 Ala Ala Val Ala Gly Asp Ala Ala Asp Gly Ala Val Ser Gly Leu Ala
 115 120 125
 Pro Ala Asp Ser Gly Gly Arg Leu Gly Lys Ser Gly Leu Gly Tyr Arg
 130 135 140
 Ala Ala Cys Arg Pro Asp Ala Ala Ala Arg Arg Arg
 145 150 155

<210> 8776

<211> 369

<212> PRT

<213> *Enterobacter cloacae*

<400> 8776

Thr Met Pro Pro Val Phe Lys Ser Arg Val Tyr Val Met Arg Val Ala
 1 5 10 15
 Asp Phe Ser Phe Glu Leu Pro Glu Ser Leu Ile Ala His Tyr Pro Met
 20 25 30
 Pro Glu Arg Ser Ser Cys Arg Leu Leu Ser Leu Asp Gly Pro Thr Gly
 35 40 45
 Ala Leu Thr His Gly Thr Phe Thr Asp Leu Leu Asp Lys Leu Asn Pro
 50 55 60
 Gly Asp Leu Leu Val Phe Asn Asn Thr Arg Val Ile Pro Ala Arg Leu
 65 70 75 80
 Phe Gly Arg Lys Ala Ser Gly Gly Lys Ile Glu Val Leu Val Glu Arg
 85 90 95
 Met Leu Asp Asp Lys Arg Ile Leu Ala His Ile Arg Ala Ser Lys Ala
 100 105 110
 Pro Lys Pro Gly Ala Glu Leu Leu Leu Gly Asp Asp Glu Ser Ile Lys
 115 120 125
 Ala Thr Met Thr Ala Arg His Asp Ala Leu Phe Glu Val Glu Phe Asn
 130 135 140
 Asp Glu Arg Thr Val Leu Asp Ile Leu Asn Ala Ile Gly His Met Pro
 145 150 155 160
 Leu Pro Pro Tyr Ile Glu Arg Pro Asp Glu Glu Ala Asp Arg Glu Leu
 165 170 175
 Tyr Gln Thr Val Tyr Ser Gln Lys Pro Gly Ala Val Ala Ala Pro Thr
 180 185 190
 Ala Gly Leu His Phe Asp Glu Pro Leu Leu Glu Lys Leu Arg Ala Lys
 195 200 205
 Gly Ile Glu Met Ala Phe Val Thr Leu His Val Gly Ala Gly Thr Phe
 210 215 220
 Gln Pro Val Arg Val Asp Ser Ile Glu Asp His Ile Met His Ser Glu
 225 230 235 240
 Tyr Ala Glu Val Pro Gln Glu Val Val Asp Ala Val Leu Ala Ala Lys
 245 250 255
 Ala Arg Gly Ser Arg Val Val Ala Val Gly Thr Thr Ser Val Arg Ser
 260 265 270
 Leu Glu Ser Ala Ala Gln Ala Ala Lys Ser Glu Leu Ile Glu Pro Phe
 275 280 285
 Phe Gly Asp Thr Gln Ile Phe Ile Tyr Pro Gly Tyr Gln Tyr Lys Val
 290 295 300
 Ile Asp Ala Leu Val Thr Asn Phe His Leu Pro Glu Ser Thr Leu Ile
 305 310 315 320
 Met Leu Val Ser Ala Phe Ala Gly Tyr Gln His Thr Met Asn Ala Tyr
 325 330 335
 Lys Ser Ala Val Glu Gln Lys Tyr Arg Phe Ser Tyr Gly Asp Ala
 340 345 350
 Met Phe Ile Thr Tyr Asn Pro Gln Ala Leu Asn Glu Arg Val Gly Glu
 355 360 365

<210> 8777
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 8777
 Met Ser Phe Phe Ile Ser Asp Ala Val Ala Thr Gly Ala Pro Ala
 1 5 10 15
 Gln Gly Ser Pro Met Ser Leu Ile Leu Met Leu Val Val Phe Gly Leu
 20 25 30
 Ile Phe Tyr Phe Met Ile Leu Arg Pro Gln Gln Lys Arg Thr Lys Glu
 35 40 45
 His Lys Asn Leu Met Asn Ser Ile Ala Lys Gly Asp Glu Val Leu Thr
 50 55 60
 Asn Gly Gly Leu Val Gly Arg Val Thr Lys Val Ala Glu Asn Gly Tyr
 65 70 75 80
 Ile Ala Ile Ala Leu Asn Asp Thr Thr Glu Val Val Ile Lys Arg Asp
 85 90 95
 Phe Val Ala Ala Val Leu Pro Lys Gly Thr Met Lys Ala Leu
 100 105 110

<210> 8778
 <211> 625
 <212> PRT
 <213> Enterobacter cloacae

<400> 8778
 Ser Gln Leu Phe Pro Lys Gly Thr Ala Val Leu Asn Arg Tyr Pro Leu
 1 5 10 15
 Trp Lys Tyr Ile Met Leu Val Val Ile Ile Val Gly Leu Leu Tyr
 20 25 30
 Ala Leu Pro Asn Leu Tyr Gly Glu Asp Pro Ala Val Gln Ile Thr Gly
 35 40 45
 Ala Arg Gly Val Ala Ala Ser Glu Gln Thr Leu Ile Gln Val Gln Lys
 50 55 60
 Thr Leu Gln Glu Glu Lys Ile Thr Ala Lys Ser Val Ala Leu Glu Glu
 65 70 75 80
 Gly Ala Ile Leu Ala Arg Phe Asp Thr Thr Asp Thr Gln Leu Arg Ala
 85 90 95
 Arg Glu Ala Leu Met Gly Val Leu Gly Asp Lys Tyr Val Val Ala Leu
 100 105 110
 Asn Leu Ala Pro Ala Thr Pro Arg Trp Leu Ala Ala Leu Asn Ala Glu
 115 120 125
 Pro Met Lys Leu Gly Leu Asp Leu Arg Gly Gly Val His Phe Leu Met
 130 135 140
 Glu Val Asp Met Asp Thr Ala Leu Gly Lys Leu Gln Glu Gln Asn Ile
 145 150 155 160
 Asp Ser Leu Arg Ser Asp Leu Arg Asp Lys Gly Ile Pro Tyr Thr Thr
 165 170 175
 Val Arg Lys Glu Asp Asn Tyr Gly Met Ser Ile Thr Phe Arg Asp Ser
 180 185 190
 Ala Ala Arg Asp Gln Ala Val Thr Tyr Leu Ser Gln Arg His Arg Asp
 195 200 205
 Leu Val Ile Thr Ser Gln Gly Ser Asn Gln Leu Arg Ala Val Met Thr
 210 215 220
 Asp Ala Arg Leu Ser Glu Ala Arg Glu Tyr Ala Val Gln Gln Asn Ile
 225 230 235 240
 Asn Ile Leu Arg Asn Arg Val Asn Gln Leu Gly Val Ala Glu Pro Leu

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Val Gln Arg Gln Gly Ala Asp Arg Ile Val Val Glu Leu Pro Gly Ile
245 250 255
260 265 270
Gln Asp Thr Ala Arg Ala Lys Glu Ile Leu Gly Ala Thr Ala Thr Leu
275 280 285
Glu Phe Arg Leu Val Asn Ser Ser Val Asp Gln Ala Ala Ala Ser
290 295 300
Gly Arg Val Pro Gly Asp Ser Glu Val Lys Gln Thr Arg Glu Gly Gln
305 310 315 320
Pro Val Val Leu Tyr Lys Arg Val Ile Leu Thr Gly Asp His Ile Thr
325 330 335
Asp Ser Thr Ser Ser Gln Asp Glu Tyr Asn Gln Pro Gln Val Asn Ile
340 345 350
Ser Leu Asp Ser Ala Gly Gly Asn Ile Met Ser Asn Phe Thr Lys Asp
355 360 365
Asn Ile Gly Lys Pro Met Ala Thr Leu Phe Val Glu Tyr Lys Asp Ser
370 375 380
Gly Lys Lys Asp Ala Asn Gly Arg Ala Val Leu Val Lys Glu Glu Glu
385 390 395 400
Val Ile Asn Ile Ala Asn Ile Gln Ser Arg Leu Gly Asn Ser Phe Arg
405 410 415
Ile Thr Gly Ile Ser Asn Pro Asn Glu Ala Arg Gln Leu Ser Leu Leu
420 425 430
Leu Arg Ala Gly Ala Leu Ile Ala Pro Ile Gln Ile Val Glu Glu Arg
435 440 445
Thr Ile Gly Pro Thr Leu Gly Met Gln Asn Ile Lys Gln Gly Leu Glu
450 455 460
Ala Cys Leu Ala Gly Leu Ala Val Ser Ile Ile Phe Met Ile Phe Phe
465 470 475 480
Tyr Lys Lys Phe Gly Leu Ile Ala Thr Ser Ala Leu Ile Ala Asn Leu
485 490 495
Val Leu Ile Ile Gly Ile Met Ser Leu Leu Pro Gly Ala Thr Leu Thr
500 505 510
Met Pro Gly Ile Ala Gly Ile Val Leu Thr Leu Ala Val Ala Val Asp
515 520 525
Ala Asn Val Leu Ile Asn Glu Arg Ile Lys Glu Glu Leu Ser Asn Gly
530 535 540
Arg Ser Val Gln Gln Ala Ile Glu Glu Gly Tyr Lys Gly Ala Phe Ser
545 550 555 560
Ser Ile Phe Asp Ala Asn Val Thr Thr Leu Ile Lys Val Leu Ile Leu
565 570 575
Tyr Ala Val Gly Thr Gly Ala Ile Lys Gly Phe Ala Ile Thr Thr Gly
580 585 590
Ile Gly Val Ala Thr Ser Met Phe Thr Ala Ile Val Gly Thr Arg Ala
595 600 605
Ile Val Asn Leu Leu Tyr Gly Gly Lys Arg Val Lys Lys Leu Ser Ile
610 615 620

625

<210> 8779

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 8779

Gln Gln Ala Gly Gly Arg Met Lys Ser Val Ile Asn Trp Phe Glu Ile
1 5 10 15
Pro Val Ala Asp Met Asp Arg Ala Ile Lys Phe Tyr Glu Ser Val Met
20 25 30
Gln Val Ala Leu Arg Arg Glu Lys Met Asp Val Ala Glu Leu Ala Val

```

      35              40              45
Phe Pro His Glu Asp Pro Ala Thr Gly Gly Ala Leu Ala Lys Phe Asp
  50              55              60
Gly Val Thr Pro Ser Ser Gln Gly Ala Ile Ile Tyr Leu His Thr Asp
  65              70              75              80
Asn Leu Ala Ala Thr Leu Asp Arg Ile Ala Ser Ala Gly Gly Glu Cys
      85              90              95
Val Phe Gly Pro Leu Glu Leu Pro Gln Gly Ile Gly Thr Ile Ala Leu
      100              105              110
Phe Thr Asp Ser Glu Gly Asn Arg Val Gly Leu His Gln Pro Val
      115              120              125

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<210> 8780

<211> 157

<212> PRT

<213> *Enterobacter cloacae*

<400> 8780

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Trp Gly Glu Thr Met Ala Ile Trp Val Asp Ala Asp Ala Cys Pro Asn
  1              5              10              15
Val Ile Lys Glu Ile Leu Phe Arg Ala Ala Glu Arg Val Gln Met Pro
      20              25              30
Leu Thr Leu Val Ala Asn Gln Asn Ile Arg Val Pro Pro Ser Arg Tyr
      35              40              45
Ile Arg Ser Leu Arg Val Pro Ala Gly Phe Asp Val Ala Asp Asn Glu
      50              55              60
Ile Val Arg Leu Cys Asp Ala Gly Asp Leu Val Ile Thr Ala Asp Ile
      65              70              75              80
Pro Leu Ala Ala Asp Val Leu Ala Lys Gly Ala Ala Ala Leu Asn Pro
      85              90              95
Arg Gly Glu Arg Tyr Ser Pro Ala Thr Ile Arg Glu Lys Leu Thr Met
      100              105              110
Arg Asp Phe Met Asp Thr Leu Arg Ser Ser Gly Val Gln Thr Gly Gly
      115              120              125
Pro Asp Ser Leu Ser Gln Arg Asp Arg Gln Gln Phe Ala Ala Glu Leu
      130              135              140
Asp Lys Trp Leu Leu Glu Val Lys Arg Arg Pro Ala
      145              150              155

```

<210> 8781

<211> 223

<212> PRT

<213> *Enterobacter cloacae*

<400> 8781

```

Pro Thr Ser Gly Arg Phe Cys Gly Thr Val Trp Leu Pro Gln Ala Cys
  1              5              10              15
His Ser Val Pro Leu Cys Ser Lys Val Ser Ala Thr Ser Thr Ala Ile
      20              25              30
Ile Ser Leu Gln Pro Ser Val Ile Arg Gln Gln Gly Glu His Leu Val
      35              40              45
Met Asn Pro Pro Ile Phe Leu Val Gly Pro Arg Gly Cys Gly Lys Thr
      50              55              60
Thr Val Gly Leu Glu Leu Ala Arg Leu Cys Gln Ser Gln Phe Val Asp
      65              70              75              80
Thr Asp His Trp Leu Gln Glu Asn Ala Gly Lys Thr Ile Ala Asp Ile
      85              90              95
Val Glu Asp Glu Gly Trp Glu Ser Phe Arg Ala Arg Glu Thr Ala Thr
      100              105              110
Leu Glu Ala Val Thr Ala Pro Ser Thr Val Ile Ala Thr Gly Gly Gly
      115              120              125

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Ile Ile Leu Ala Ser Tyr Asn Arg Gln Phe Met Arg Glu Lys Gly Val
130          135          140
Val Ile Tyr Leu Cys Ala Pro Val Ser Thr Leu Val Gly Arg Leu Glu
145          150          155          160
Ala Phe Pro Glu Glu Gly Gln Arg Pro Ala Leu Thr Ala Lys Pro Leu
165          170          175
Ser Glu Glu Val Ser Glu Val Leu Ala Glu Arg Asp Ala Leu Tyr Arg
180          185          190
Glu Ala Ala His His Val Val Asp Ala Ser Ala Ser Pro Glu Lys Val
195          200          205
Ala Ile Gln Ile Ile Thr Ala Leu Arg Leu Ala Cys Ala Ser
210          215          220

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<210> 8782

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 8782

```

Trp Ile Phe Leu Tyr Lys Tyr Lys Gly Gln Phe Met Leu Gln Ser Asn
1          5          10          15
Glu Tyr Phe Ser Gly Lys Val Lys Ser Ile Gly Phe Thr Ser Ser Ser
20          25          30
Thr Gly Arg Ala Ser Val Gly Val Met Ala Glu Gly Glu Tyr Thr Phe
35          40          45
Gly Thr Ala Glu Ala Glu Glu Met Thr Val Val Ser Gly Ala Leu Asn
50          55          60
Val Leu Leu Pro Gly Glu Thr Glu Trp Lys Val Tyr Ser Ala Gly Gln
65          70          75          80
Val Phe Asn Val Pro Gly His Ser Glu Phe His Leu Gln Val Ala Glu
85          90          95
Pro Thr Ser Tyr Leu Cys Arg Tyr Leu Lys
100          105

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<210> 8783

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 8783

```

Thr Cys Cys Thr Ala Ala Ser Ala Ser Lys Ser Cys Leu Ser Glu Glu
1          5          10          15
Cys Val Val Ala Gln Glu Tyr Thr Val Glu Gln Leu Asn His Gly Arg
20          25          30
Lys Val Trp Asp Phe Met Arg Trp Asp Tyr Trp Ala Phe Gly Ile Ser
35          40          45
Gly Phe Leu Leu Ile Leu Ser Ile Val Ile Met Gly Val Lys Gly Phe
50          55          60
Asn Trp Gly Leu Asp Phe Thr Gly Gly Thr Val Ile Glu Ile Thr Leu
65          70          75          80
Glu Lys Pro Val Asp Met Asp Gln Met Arg Glu Ser Leu Gln Lys Ala
85          90          95
Gly Phe Glu Glu Pro Leu Leu Gln Asn Phe Gly Ser Ser Arg Asp Ile
100          105          110
Met Val Arg Met Pro Pro Val His Asp Ala Asn Gly Ser Gln Glu Leu
115          120          125
Gly Ser Lys Val Val Gln Val Ile Asn Glu Thr Thr Ser Gln Asp Ala
130          135          140
Thr Val Lys Arg Ile Glu Phe Val Gly Pro Ser Val Gly Ala Asp Leu
145          150          155          160
Ala Gln Thr Gly Ala Met Ala Leu Leu Val Ala Leu Ile Ser Ile Leu

```

165 170 175
 Ile Tyr Val Gly Phe Arg Phe Glu Trp Arg Leu Ala Ala Gly Val Val
 180 185 190
 Ile Ala Leu Ala His Asp Val Val Ile Thr Met Gly Ile Leu Ser Leu
 195 200 205
 Phe His Ile Glu Ile Asp Leu Thr Ile Val Ala Ser Leu Met Ser Val
 210 215 220
 Ile Gly Tyr Ser Leu Asn Asp Ser Ile Val Val Ser Asp Arg Ile Arg
 225 230 235 240
 Glu Asn Phe Arg Lys Ile Arg Arg Gly Thr Pro Tyr Glu Ile Phe Asn
 245 250 255
 Val Ser Leu Thr Gln Thr Leu His Arg Thr Leu Ile Thr Ser Gly Thr
 260 265 270
 Thr Leu Met Val Ile Leu Met Leu Phe Gly Gly Pro Val Leu
 275 280 285
 Glu Gly Phe Ser Leu Thr Met Leu Ile Gly Val Ser Ile Gly Thr Ala
 290 295 300
 Ser Ser Ile Tyr Val Ala Ser Ala Leu Ala Leu Lys Leu Gly Met Lys
 305 310 315 320
 Arg Glu His Leu Ile Gln Gln Lys Val Glu Lys Glu Gly Ala Asp Gln
 325 330 335
 Pro Ser Ile Leu Pro
 340

<210> 8784

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 8784

Pro Cys Leu Pro Thr Ala Lys Val Ile Ala Ser Ala Ser Ile Asn Arg
 1 5 10 15
 Tyr Glu Ser Lys Pro Met Thr Arg Arg Ala Asp Arg Leu Phe Gln Ile
 20 25 30
 Val Gln Ile Leu Arg Gly Arg Arg Leu Thr Thr Ala Ala His Leu Ala
 35 40 45
 Glu Arg Leu Gly Val Ser Glu Arg Thr Val Tyr Arg Asp Ile Arg Asp
 50 55 60
 Leu Ser Leu Ser Gly Val Pro Val Glu Gly Glu Ala Gly Ser Gly Tyr
 65 70 75 80
 Arg Leu Met Ser Gly Phe Asp Leu Pro Leu Met Leu Thr Asn Lys
 85 90 95
 Glu Ser Glu Ala Leu Met Val Ala Ile Arg Leu Leu Lys Thr Trp Gly
 100 105 110
 Gly Glu Ser Leu Ser Arg Glu Leu Glu Ser Ala Gln Glu Lys Val Leu
 115 120 125
 Ala Ile Leu Pro Glu Glu Ser Arg Arg Lys Ala Glu Gln Thr Arg Ile
 130 135 140
 Tyr Ala Pro Asp Ile Ala Leu Gln Pro His Ser Arg Ser Gly Phe Asp
 145 150 155 160
 Val Ile His Gln Ala Ile Ser Ala Leu Arg Val Leu Ala Leu His Tyr
 165 170 175
 Arg Asp Glu Ala Gly Gln Leu Thr Trp Arg Glu Val Gln Pro Leu Gly
 180 185 190
 Leu Phe Phe Trp Gly Glu His Trp Leu Leu Ala Ala Trp Cys Glu Arg
 195 200 205
 Arg Asp Asp Tyr Arg Cys Phe Arg Leu Asp Arg Cys Leu His Ile Thr
 210 215 220
 Leu Thr Glu Arg Arg Phe Ser Glu Ser Ala Asp Arg Ser Leu Ala Asp
 225 230 235 240
 Phe Leu Arg Lys Val Lys Gln

245

<210> 8785
 <211> 197
 <212> PRT
 <213> Enterobacter cloacae

<400> 8785

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Arg Tyr Pro Gly Leu Met Ile Ser Leu Phe Val Thr Thr Met Val Ile
1          5          10          15
Gln Leu Cys Asn Gly Ser Val Gly Pro Ile Leu Ala Leu Phe Ile Lys
20          25          30
Ser Met Ala Pro Asp Ser Ser Asn Ile Ala Phe Leu Ser Gly Met Ile
35          40          45
Ala Ala Val Pro Gly Val Ser Ala Leu Met Ser Ala Pro Arg Leu Gly
50          55          60
Lys Leu Gly Asp Arg Ile Gly Thr Ala Arg Ile Leu Met Ala Thr Leu
65          70          75
Ile Ile Ala Val Ile Leu Phe Phe Ala Met Ser Phe Val Thr Thr Pro
85          90          95
Leu Gln Leu Gly Ile Leu Arg Phe Leu Leu Gly Phe Ala Asp Gly Ala
100         105         110
Met Leu Pro Ala Val Gln Thr Leu Leu Val Lys Tyr Ser Ser Asp Gln
115         120         125
Val Thr Gly Arg Ile Phe Gly Tyr Asn Gln Ser Phe Met Tyr Leu Gly
130         135         140
Asn Val Ala Gly Pro Leu Ile Gly Ala Ser Val Ser Ala Met Ala Gly
145         150         155
Phe Arg Trp Val Phe Ala Ala Thr Ala Val Val Val Leu Leu Asn Ile
165         170         175
Ile Gln Leu Ala Phe Ala Leu Arg Arg Arg Arg Ile Ala Glu Ala
180         185         190
Lys Ser Ala Arg
195

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<210> 8786
 <211> 121
 <212> PRT
 <213> Enterobacter cloacae

<400> 8786

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Arg Thr Arg Leu Asn Val Glu Leu His Ile Lys Asp Gly Ala Met Lys
1          5          10          15
Thr Thr Ile Leu Thr Leu Leu Ser Gly Leu Cys Leu Met Ala Ser
20          25          30
Ala His Ala Glu Glu Lys Thr Leu Thr Pro Gln Gln Gln Arg Met Thr
35          40          45
Thr Cys Asn Gln Gln Ala Thr Ser Gln Ser Leu Lys Gly Asp Ala Arg
50          55          60
Lys Thr Tyr Met Ser Asp Cys Leu Lys Asn Gly Ala Thr Lys Pro Gly
65          70          75
Glu Lys Ser Leu Thr Pro Gln Gln Gln Lys Met Arg Glu Cys Asn Ala
85          90          95
Gln Ala Thr Gln Gln Met Leu Lys Gly Asp Asp Arg Ser Lys Phe Met
100         105         110
Ser Ala Cys Leu Lys Lys Gln Ala
115         120

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<210> 8787
 <211> 400
 <212> PRT

<213> Enterobacter cloacae

<400> 8787

Arg Val Ser His Gly Cys Gly Ser Pro Lys Ile Ser Tyr Phe Pro Arg
 1 5 10 15
 Tyr Pro Pro Leu Tyr Asn Leu Gly Lys Cys Phe Arg Ile Phe Pro Lys
 20 25 30
 Met Met Asn Asp Glu Phe Tyr Asp Ser His Gly Asn Ile Arg Glu Ala
 35 40 45
 Trp His Gln Gln Leu Ser Gln Asp Asp Ser Tyr Arg Ser Gly Leu Arg
 50 55 60
 Phe Ala Arg Arg Ile Arg Leu Ala Arg Ile Val Gly Leu Ala Ala Leu
 65 70 75 80
 Phe Val Pro Leu Ala Ser Val Leu Val Ser Gln Phe Leu Ser Gly Val
 85 90 95
 Trp Trp Leu Leu Leu Val Gly Trp Val Phe Val Trp Pro His Leu Ala
 100 105 110
 Trp Gln Leu Ala Phe Arg Ser Ala Glu Pro His Arg Ser Gly Ile Val
 115 120 125
 Asn Leu Lys Ile Asp Ala Ile Leu Ala Gly Val Trp Met Gly Leu Thr
 130 135 140
 Gly Phe Asn Ala Leu Pro Thr Ala Ala Leu Ile Met Met Ile Gly Met
 145 150 155 160
 Asn Met Met Gly Ser Gly Gly Cys Arg Leu Phe Leu Thr Gly Leu Ala
 165 170 175
 Leu Leu Ala Leu Ser Ala Leu Leu Thr Val Gln Ser Thr Gly Thr Pro
 180 185 190
 Val Leu Leu Thr Ser Glu Pro Leu Ala Leu Trp Leu Thr Leu Pro Val
 195 200 205
 Leu Val Val Tyr Pro Met Leu Phe Ala Trp Leu Ser His Arg Thr Ala
 210 215 220
 Ile Arg Leu Ala Glu His Lys Arg Arg Leu Glu Leu Met Ser Thr Arg
 225 230 235 240
 Asp Gly Met Thr Gly Val Phe Asn Arg Arg His Trp Glu Thr Leu Leu
 245 250 255
 Arg Tyr Glu Phe Glu Ala Cys Arg Arg Ser His Arg His Ala Thr Ile
 260 265 270
 Leu Leu Ile Asp Ile Asp His Phe Lys Thr Ile Asn Asp Thr Trp Gly
 275 280 285
 His Asp Val Gly Asp Glu Ala Ile Val Ala Ile Thr Arg Gln Leu Gln
 290 295 300
 Leu Thr Leu Arg Ser Gly Asp Tyr Ile Gly Arg Phe Gly Gly Asp Glu
 305 310 315 320
 Phe Ala Val Ile Met Ser Gly Thr Pro Ala Asp Ser Ala Ile Ala Ala
 325 330 335
 Met Ser Arg Val His Glu Arg Leu Val Asn Met Pro Leu His Gly Ala
 340 345 350
 Pro Thr Ala Arg Leu Cys Ile Ser Val Gly Val Ala Pro Trp Gly Ala
 355 360 365
 Gln Phe Thr His Tyr Arg Glu Trp Leu Lys Ala Ala Asp Val Ala Leu
 370 375 380
 Tyr Lys Ala Lys Asn Ala Gly Arg Gly Arg Thr Glu Val Ala Ala
 385 390 395 400

<210> 8788

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 8788

Arg Lys Ala Ile Lys Met Lys Ala Thr Leu Ala Ile Leu Thr Ile Gly

1 5 10 15
 Val Val Pro Val Ser Glu Val Leu Pro Leu Leu Thr Glu His Val Ser
 20 25 30
 Glu Gln Gln Ile Thr His Leu Ser Leu Leu Gly Lys Leu Ser Arg Glu
 35 40 45
 Glu Val Met Glu Asp Tyr Ala Val Gly Glu Gly Glu Asp Pro Leu Ala
 50 55 60
 Thr Leu Leu Ser Asp Gly Lys Leu Ala His Val Ser Arg Gln Lys Ile
 65 70 75 80
 Glu Arg Ala Leu Gln Gly Val Ile Glu Val Leu Asp Asn Gln Asp Tyr
 85 90 95
 Asp Val Ile Leu Leu Met Ser Thr Ala Pro Val Lys Gly Leu Ser Ala
 100 105 110
 Arg Asn Ala Ile Leu Leu Glu Pro Met Arg Ile Ile Pro Pro Leu Val
 115 120 125
 Ala Ser Ile Val Asp Gly His Gln Val Gly Val Ile Val Pro Val Glu
 130 135 140
 Glu Leu Leu Asp Asn Gln Thr Val Lys Trp Ala Ala Leu Glu His Thr
 145 150 155 160
 Pro Leu Tyr Ala Leu Ala Asn Pro Phe Trp Asp Ser Glu Ala Lys Leu
 165 170 175
 Ile Ala Ala Gly Gln Glu Leu Ile Asp Arg Gly Ala Asp Val Leu Met
 180 185 190
 Leu Asp Cys Leu Gly Phe His Gln Arg His Arg Asp Leu Leu Gln Lys
 195 200 205
 Ala Leu Asp Val Pro Val Leu Leu Ser Asn Val Leu Met Ala Arg Leu
 210 215 220
 Ala Ser Glu Leu Leu Val
 225 230

<210> 8789

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 8789

Ala Cys Arg Gly Ile Ser Pro Arg His Cys Val Thr Thr Leu Asp Cys
 1 5 10 15
 Phe Ser Asp Val Gly Glu Lys Met Lys Phe Glu Leu Asp Thr Thr Asp
 20 25 30
 Gly Arg Ala Arg Arg Gly Arg Leu Val Phe Asp Arg Gly Val Val Glu
 35 40 45
 Thr Pro Ala Phe Met Pro Val Gly Thr Tyr Gly Thr Val Lys Gly Met
 50 55 60
 Thr Pro Glu Glu Val Glu Ala Thr Gly Ala Gln Ile Ile Leu Gly Asn
 65 70 75 80
 Thr Phe His Leu Trp Leu Arg Pro Gly Gln Glu Ile Met Lys Leu His
 85 90 95
 Gly Asp Leu His Asp Phe Met Gln Trp Lys Gly Pro Ile Leu Thr Asp
 100 105 110
 Ser Gly Gly Phe Gln Val Phe Ser Leu Gly Asp Ile Arg Lys Ile Thr
 115 120 125
 Glu Gln Gly Val His Phe Arg Asn Pro Ile Asn Gly Asp Pro Ile Phe
 130 135 140
 Leu Asp Pro Glu Lys Ser Met Glu Ile Gln Tyr Asp Leu Gly Ser Asp
 145 150 155 160
 Ile Val Met Ile Phe Asp Glu Cys Thr Pro Tyr Pro Ala Asp Trp Asp
 165 170 175
 Tyr Ala Lys Arg Ser Met Glu Met Ser Leu Arg Trp Ala Lys Arg Ser
 180 185 190
 Arg Asp Arg Phe Asp Ser Leu Gln Asn Lys Asn Ala Leu Phe Gly Ile

195 200 205
 Ile Gln Gly Ser Val Tyr Glu Asp Leu Arg Asp Ile Ser Val Lys Gly
 210 215 220
 Leu Val Glu Ile Gly Phe Asp Gly Tyr Ala Val Gly Gly Leu Ala Val
 225 230 235 240
 Gly Glu Pro Lys Glu Asp Met His Arg Ile Leu Glu His Val Cys Pro
 245 250 255
 Gln Ile Pro Ala Asp Lys Pro Arg Tyr Leu Met Gly Val Gly Lys Pro
 260 265 270
 Glu Asp Leu Val Glu Gly Val Arg Arg Gly Ile Asp Met Phe Asp Cys
 275 280 285
 Val Met Pro Thr Arg Asn Ala Arg Asn Gly His Leu Phe Val Thr Asp
 290 295 300
 Gly Val Val Lys Ile Arg Asn Ala Lys His Lys Ser Asp Thr Ser Pro
 305 310 315 320
 Leu Asp Ser Glu Cys Asp Cys Tyr Thr Cys Arg Asn Tyr Ser Arg Ala
 325 330 335
 Tyr Leu His His Leu Asp Arg Cys Asn Glu Ile Leu Gly Ala Arg Leu
 340 345 350
 Asn Thr Ile His Asn Leu Arg Tyr Tyr Gln Arg Leu Met Ala Gly Leu
 355 360 365
 Arg Lys Ala Ile Glu Glu Gly Lys Leu Glu Ser Phe Val Thr Asp Phe
 370 375 380
 Tyr Gln Arg Gln Gly Arg Asp Val Pro Pro Leu Asn Val Asp
 385 390 395

<210> 8790

<211> 473

<212> PRT

<213> Enterobacter cloacae

<400> 8790

Glu Gln Val Ser Leu Ala Met Pro His Ser Tyr Asp Tyr Asp Ala Ile
 1 5 10 15
 Val Ile Gly Ser Gly Pro Gly Gly Glu Gly Ala Ala Met Gly Leu Val
 20 25 30
 Lys Gln Gly Ala Arg Val Ala Val Ile Glu Arg Tyr His Asn Val Gly
 35 40 45
 Gly Gly Cys Thr His Trp Gly Thr Ile Pro Ser Lys Ala Leu Arg His
 50 55 60
 Ala Val Ser Arg Ile Ile Glu Phe Asn Gln Asn Pro Leu Tyr Ser Asp
 65 70 75 80
 His Ser Arg Leu Leu Arg Ser Ser Phe Ala Asp Ile Leu Asn His Ala
 85 90 95
 Asp Thr Val Ile Asn Gln Gln Thr Arg Met Arg Gln Gly Phe Tyr Glu
 100 105 110
 Arg Asn His Cys Glu Ile Leu Gln Gly Asn Ala His Phe Val Asp Glu
 115 120 125
 His Thr Leu Ala Leu Glu Cys His Asp Gly Ser Val Glu Thr Leu Thr
 130 135 140
 Ala Glu Lys Phe Val Ile Ala Cys Gly Ser Arg Pro Tyr His Pro Ala
 145 150 155 160
 Asp Val Asp Phe Ser His Pro Arg Ile Tyr Asp Ser Asp Ser Ile Leu
 165 170 175
 Ser Leu His His Glu Pro Arg His Val Ile Ile Tyr Gly Ala Gly Val
 180 185 190
 Ile Gly Cys Glu Tyr Ala Ser Ile Phe Arg Gly Met Glu Val Lys Val
 195 200 205
 Asp Leu Ile Asn Thr Arg Asp Arg Leu Leu Ala Phe Leu Asp Gln Glu
 210 215 220
 Met Ser Asp Ser Leu Ser Tyr His Phe Trp Asn Ser Gly Val Val Ile

225 230 235 240
 Arg His Asn Glu Glu Tyr Glu Lys Ile Glu Gly Cys Asp Asp Gly Val
 245 250 255
 Ile Met His Leu Lys Ser Gly Lys Lys Leu Lys Ala Asp Cys Leu Leu
 260 265 270
 Tyr Ala Asn Gly Arg Thr Gly Asn Thr Asp Ser Leu Gln Leu Glu Asn
 275 280 285
 Ile Gly Leu Glu Thr Asp Ser Arg Gly Gln Leu Lys Val Asn Ser Met
 290 295 300
 Tyr Gln Thr Ala Leu Pro His Val Tyr Ala Val Gly Asp Val Ile Gly
 305 310 315 320
 Tyr Pro Ser Leu Ala Ser Ala Ala Tyr Asp Gln Gly Arg Ile Ala Ala
 325 330 335
 Gln Ala Leu Val Lys Gly Glu Ala Thr Ala His Leu Ile Glu Asp Ile
 340 345 350
 Pro Thr Gly Ile Tyr Thr Ile Pro Glu Ile Ser Ser Val Gly Lys Thr
 355 360 365
 Glu Gln Gln Leu Thr Ala Met Lys Val Pro Tyr Glu Val Gly Arg Ala
 370 375 380
 Gln Phe Lys His Leu Ala Arg Ala Gln Ile Val Gly Met Ser Val Gly
 385 390 395 400
 Thr Leu Lys Ile Leu Phe His Arg Glu Thr Lys Glu Ile Leu Gly Ile
 405 410 415
 His Cys Phe Gly Glu Arg Ala Ala Glu Ile Ile His Ile Gly Gln Ala
 420 425 430
 Ile Met Glu Gln Lys Gly Gly Gly Asn Thr Ile Glu Tyr Phe Val Asn
 435 440 445
 Thr Thr Phe Asn Tyr Pro Thr Met Ala Glu Ala Tyr Arg Val Ala Ala
 450 455 460
 Leu Asn Gly Leu Asn Arg Leu Phe
 465 470

<210> 8791

<211> 388

<212> PRT

<213> *Enterobacter cloacae*

<400> 8791

Gly Val Ser Thr Met Lys Met Asn Leu Pro Pro Phe Ile Glu Ile Tyr
 1 5 10 15
 Arg Ala Leu Ile Ala Thr Pro Ser Ile Ser Ala Thr Glu Glu Ala Leu
 20 25 30
 Asp Gln Ser Asn Glu Ser Leu Ile Asn Leu Leu Ala Gly Trp Phe Ser
 35 40 45
 Asp Leu Gly Phe Asn Val Glu Val Gln Pro Val Pro Gly Thr Arg His
 50 55 60
 Lys Phe Asn Leu Leu Ala Ser Thr Gly His Gly Ala Gly Gly Leu Leu
 65 70 75 80
 Leu Ala Gly His Thr Asp Thr Val Pro Phe Asp Asp Gly Arg Trp Thr
 85 90 95
 Arg Asp Pro Phe Thr Leu Ser Glu His Asp Asn Lys Leu Tyr Gly Leu
 100 105 110
 Gly Thr Ala Asp Met Lys Gly Phe Phe Ala Phe Ile Leu Asp Ala Leu
 115 120 125
 Arg Asp Val Asp Val Thr Lys Leu Lys Lys Pro Leu Tyr Ile Leu Ala
 130 135 140
 Thr Ala Asp Glu Glu Thr Ser Met Ala Gly Ala Arg Tyr Phe Ser Glu
 145 150 155 160
 Asn Thr Ser Ile Arg Pro Asp Cys Ala Ile Ile Gly Glu Pro Thr Ser
 165 170 175
 Leu Gln Pro Ile Arg Ala His Lys Gly His Ile Ser Thr Ala Val Arg

180 185 190
 Val Leu Gly Gln Ser Gly His Ser Ser Asp Pro Ala Arg Gly Val Asn
 195 200 205
 Ala Ile Glu Leu Met His Asp Ala Ile Gly Arg Ile Met Thr Leu Arg
 210 215 220
 Asp Asp Leu Lys Glu Arg Tyr His Tyr Glu Ala Phe Thr Val Pro Tyr
 225 230 235 240
 Pro Thr Leu Asn Leu Gly Ser Leu His Gly Gly Asp Ala Ser Asn Arg
 245 250 255
 Ile Cys Ala Cys Cys Glu Leu His Met Asp Ile Arg Pro Leu Pro Gly
 260 265 270
 Met Thr Leu Ser Asp Leu Asp Gly Leu Leu Asn Glu Ala Leu Ala Pro
 275 280 285
 Val Ser Glu Arg Trp Pro Gly Arg Leu Thr Val Ser Glu Leu His Pro
 290 295 300
 Pro Ile Pro Gly Tyr Glu Cys Pro Pro Asp His Gln Leu Val Gln Val
 305 310 315 320
 Val Glu Lys Leu Leu Gly Glu Lys Thr Asp Val Val Asn Tyr Cys Thr
 325 330 335
 Glu Ala Pro Phe Ile Gln Thr Leu Cys Pro Thr Leu Val Leu Gly Pro
 340 345 350
 Gly Ser Ile Asn Gln Ala His Gln Pro Asp Glu Tyr Leu Glu Thr Arg
 355 360 365
 Phe Ile Lys Pro Thr Arg Glu Leu Ile Thr Gln Val Val His His Phe
 370 375 380
 Cys Trp His
 385

 <210> 8792
 <211> 841
 <212> PRT
 <213> Enterobacter cloacae

 <400> 8792
 Gly Leu Ile Ser Gly Val Cys Met Ala Leu Val Val Glu Phe Thr Cys
 1 5 10 15
 Glu Leu Pro Asn Gly Val His Ala Arg Pro Ala Ser His Val Glu Thr
 20 25 30
 Leu Cys Asn Thr Phe Ile Ser Gln Ile Glu Trp His Asn Leu Arg Thr
 35 40 45
 Asp Arg Lys Gly Asn Ala Lys Ser Ala Leu Ala Val Ile Gly Thr Asp
 50 55 60
 Thr Leu Ala Gly Asp Ala Cys Arg Leu Val Ile Gln Gly Glu Asp Glu
 65 70 75 80
 Gln Asn Ala Tyr Gln Gln Leu Glu Gln Trp Leu Arg Glu Glu Phe Pro
 85 90 95
 His Cys Asp Ala Pro Leu Ala Glu Ala Ile Asn Asn Glu Arg Asp Pro
 100 105 110
 Leu Pro Glu Ser Leu Ala Arg Leu Asn Pro Thr Leu Phe Arg Ala Leu
 115 120 125
 Pro Val Cys Ser Gly Ser Ala Gln Gly Val Leu Thr Leu Leu Ala Ser
 130 135 140
 Leu Asp Leu Asn Ala Leu Ser Asp Leu Ala Glu Ala Lys Asp Glu Glu
 145 150 155 160
 Asp Glu Gln Leu Ala Leu Asp Asn Gly Leu Thr Leu Leu Val Lys Asn
 165 170 175
 Ile Glu Leu Arg Ala Leu Asp Ser Asp Ser Thr Ala Ser Ala Ile Leu
 180 185 190
 Glu Ala His Arg Ser Leu Ala Thr Asp Thr Ser Leu Arg Gln His Leu
 195 200 205
 Leu Ser Gly Val Asn Arg Gly Leu Ser Cys Ala Gln Ala Ile Ile Ala

210	215	220
Thr Ala Asn His Phe Cys Glu Thr Phe Ser Arg		Ser Ser Ser Thr Tyr
225	230	235
Leu Gln Glu Arg Val Leu Asp Val Arg Asp Val Cys Tyr Gln Leu Leu		240
	245	250
Gln His Ile Tyr Gly Glu Ala Arg Phe Pro Ser Pro Gly Gln Leu Thr		255
	260	265
Gln Pro Ser Val Cys Leu Ala Asp Asp Leu Thr Pro Gly Gln Phe Leu		270
	275	280
Glu Leu Asp Lys Thr Leu Leu Lys Gly Leu Leu Leu Lys Ser Gly Gly		285
	290	295
Thr Thr Ser His Thr Val Ile Leu Ala Arg Ser Phe Asn Ile Pro Thr		300
305	310	315
Leu Val Gly Val Asp Gly Glu Ser Leu Leu Gln Trp Arg Asn Gln Ser		320
	325	330
Val Phe Ile Asp Gly Asn Ala Gly Ala Val Val Val Asp Ala Ser Asp		335
	340	345
Ala Val Ala Arg Tyr Tyr Arg Gln Glu Ala Arg Val Gln Gln Ala Leu		350
	355	360
Arg Glu Gln Gln Gly Ile Trp Leu Asp Arg Glu Ala Arg Thr Ala Asp		365
	370	375
Gly Leu Arg Val Glu Ile Ala Ala Asn Ile Ala His Ala Val Glu Ala		380
385	390	395
Gln Ala Ala Phe Glu Asn Gly Ala Glu Gly Val Gly Leu Phe Arg Thr		400
	405	410
Glu Met Leu Tyr Met Asp Arg Ser Ser Ala Pro Gly Glu Asn Glu Leu		415
	420	425
Tyr Asn Ile Phe Cys Gln Ala Leu Glu Ser Ala Asn Gly Arg Ser Ile		430
	435	440
Ile Val Arg Thr Met Asp Ile Gly Gly Asp Lys Pro Val Glu Tyr Leu		445
	450	455
Lys Ile Pro Ala Glu Asn Asn Pro Phe Leu Gly Tyr Arg Ala Val Arg		460
465	470	475
Ile Tyr Glu Glu Tyr Ala Val Leu Phe Thr Thr Gln Leu Arg Ala Ile		480
	485	490
Leu Arg Ala Ser Ala His Gly Ser Leu Lys Ile Met Ile Pro Met Ile		495
	500	505
Ser Ser Met Glu Glu Ile Leu Trp Val Lys Glu Lys Leu Ala Glu Ala		510
	515	520
Lys Gln Gln Leu Arg Ala Glu His Ile Pro Phe Asp Glu Lys Ile Pro		525
	530	535
Leu Gly Ile Met Leu Glu Val Pro Ser Val Met Phe Ile Ile Asp Gln		540
545	550	555
Cys Cys Glu Glu Ile Asp Phe Phe Ser Ile Gly Ser Asn Asp Leu Thr		560
	565	570
Gln Tyr Leu Leu Ala Val Asp Arg Asp Asn Ala Lys Val Thr Arg His		575
	580	585
Tyr Asn Ser Leu Asn Pro Ala Phe Leu Arg Ala Leu Asp Tyr Ala Val		590
	595	600
Gln Ala Val His Arg Gln Gly Lys Trp Ile Gly Leu Cys Gly Glu Leu		605
	610	615
Gly Ala Lys Gly Ser Val Leu Pro Leu Leu Val Gly Leu Gly Leu Asp		620
625	630	635
Glu Leu Ser Met Gly Ser Pro Ala Ile Pro Ala Thr Lys Ala Arg Leu		640
	645	650
Ala Gln Leu Asp Ser Arg Ala Cys Arg Gln Leu Leu Asn Gln Ala Met		655
	660	665
Ala Cys Arg Thr Ser Leu Glu Val Glu His Leu Leu Ala Gln Phe Arg		670
	675	680
Met Asn Gln Gln Asp Thr Pro Leu Val Thr Pro Arg Cys Ile Ser Leu		685
	690	695
		700

Asp Asn Asp Trp Asn Ser Lys Glu Glu Val Met Lys Gly Met Thr Asp
 705 710 715 720
 Asn Leu Leu Leu Ala Gly Arg Cys Arg Tyr Pro Arg Lys Leu Glu Ala
 725 730 735
 Asp Leu Trp Ala Arg Glu Ala Val Phe Ser Thr Gly Leu Gly Phe Ser
 740 745 750
 Phe Ala Ile Pro His Ser Lys Ser Glu His Ile Glu Gln Ser Thr Ile
 755 760 765
 Ser Val Ala Arg Leu Lys Ala Pro Val Met Trp Gly Asp Glu Glu Ala
 770 775 780
 Gln Phe Ile Ile Met Leu Thr Leu Asn Lys His Ala Ala Gly Asp Gln
 785 790 795 800
 His Met Arg Ile Phe Ser Arg Leu Ala Arg Arg Ile Met His Glu Asp
 805 810 815
 Phe Arg Asn Ala Leu Val Asn Ala Ser Ser Gly Glu Ala Ile Ala Ser
 820 825 830
 Leu Leu Gln His Glu Leu Glu Leu
 835 840

<210> 8793

<211> 890

<212> PRT

<213> Enterobacter cloacae

<400> 8793

Trp Gly Asp Trp Val Phe Met Asn Glu Gln Tyr Ser Ala Leu Arg Ser
 1 5 10 15
 Asn Val Ser Met Leu Gly Lys Val Leu Gly Asp Thr Ile Lys Asp Ala
 20 25 30
 Leu Gly Glu Asn Ile Leu Asp Arg Val Glu Thr Ile Arg Lys Leu Ser
 35 40 45
 Lys Ser Ser Arg Ala Gly Asn Glu Ala Asn Arg Gln Glu Leu Leu Thr
 50 55 60
 Thr Leu Gln Asn Leu Ser Asn Asp Glu Leu Leu Pro Val Ala Arg Ala
 65 70 75 80
 Phe Ser Gln Phe Leu Asn Leu Ala Asn Thr Ala Glu Gln Tyr His Ser
 85 90 95
 Ile Ser Pro Lys Gly Glu Ala Ala Ser Asn Pro Glu Val Ile Ala Arg
 100 105 110
 Thr Leu Arg Lys Leu Lys Asp Gln Pro Asp Leu Asn Glu Ala Thr Ile
 115 120 125
 Lys Lys Ala Val Glu Ser Leu Ser Leu Glu Leu Val Leu Thr Ala His
 130 135 140
 Pro Thr Glu Ile Thr Arg Thr Leu Ile His Lys Met Val Glu Val
 145 150 155 160
 Asn Asn Cys Leu Lys Gln Leu Asp Asn Lys Asp Ile Ala Asp Tyr Glu
 165 170 175
 Arg Asn Gln Leu Met Arg Arg Leu Arg Gln Leu Ile Ala Gln Ser Trp
 180 185 190
 His Thr Asp Glu Ile Arg Lys His Arg Pro Ser Pro Val Asp Glu Ala
 195 200 205
 Lys Trp Gly Phe Ala Val Val Glu Asn Ser Leu Trp Glu Gly Val Pro
 210 215 220
 Asn Tyr Leu Arg Glu Leu Asn Glu Gln Leu Glu Glu Asn Leu Gly Tyr
 225 230 235 240
 Arg Leu Pro Val Asp Phe Val Pro Val Arg Phe Thr Ser Trp Met Gly
 245 250 255
 Gly Asp Arg Asp Gly Asn Pro Asn Val Thr Ala Glu Ile Thr Arg His
 260 265 270
 Val Leu Leu Leu Ser Arg Trp Lys Ala Thr Asp Leu Phe Leu Lys Asp
 275 280 285

Ile Gln Val Leu Ile Ser Glu Leu Ser Met Val Glu Ala Thr Pro Glu
 290 295 300
 Leu Arg Ala Leu Ala Gly Glu Glu Gly Ala Ser Glu Pro Tyr Arg Phe
 305 310 315 320
 Leu Met Lys Lys Leu Arg Gly Gln Leu Met Ala Thr Gln Ala Trp Leu
 325 330 335
 Glu Ala Arg Leu Lys Gly Gln Arg Leu Pro Lys Pro Glu Gly Leu Leu
 340 345 350
 Ser Gln Asn Glu Gln Leu Trp Glu Pro Leu Tyr Ala Cys Tyr Lys Ser
 355 360 365
 Leu Gln Ala Cys Gly Met Gly Ile Ile Ala Asn Gly Glu Leu Leu Asp
 370 375 380
 Thr Leu Arg Arg Val Lys Cys Phe Gly Val Pro Leu Val Arg Ile Asp
 385 390 395 400
 Val Arg Gln Glu Ser Thr Arg His Thr Glu Ala Leu Gly Glu Leu Thr
 405 410 415
 Arg Tyr Leu Gly Ile Gly Asp Tyr Glu Ser Trp Ser Glu Ala Asp Lys
 420 425 430
 Gln Ala Phe Leu Ile Arg Glu Leu Asn Ser Lys Arg Pro Leu Leu Pro
 435 440 445
 Arg Asn Trp Glu Pro Ser Asn Asp Thr Arg Glu Val Leu Asn Thr Cys
 450 455 460
 Lys Ala Ile Val Asp Ala Pro Lys Gly Ser Val Ala Ala Tyr Val Ile
 465 470 475 480
 Ser Met Ala Lys Thr Pro Ser Asp Val Leu Gly Val His Leu Leu Leu
 485 490 495
 Lys Glu Ala Gly Ile Asp Tyr Ala Leu Pro Val Ala Pro Leu Phe Glu
 500 505 510
 Thr Leu Asp Asp Leu Asn Asn Ala Asn Asp Val Met Thr Gln Leu Leu
 515 520 525
 Asn Ile Asp Trp Tyr Arg Gly Phe Ile Gln Gly Lys Gln Met Val Met
 530 535 540
 Ile Gly Tyr Ser Asp Ser Ala Lys Asp Ala Gly Val Met Ala Ala Ser
 545 550 555 560
 Trp Ala Gln Tyr Gln Ala Gln Asp Ala Leu Ile Lys Thr Cys Glu Lys
 565 570 575
 Ala Gly Ile Glu Leu Thr Leu Phe His Gly Arg Gly Gly Ser Ile Gly
 580 585 590
 Arg Gly Gly Ala Pro Ala His Ala Ala Leu Leu Ser Gln Pro Pro Gly
 595 600 605
 Ser Leu Lys Gly Gly Leu Arg Val Thr Glu Gln Gly Glu Met Ile Arg
 610 615 620
 Phe Lys Tyr Gly Leu Pro Glu Val Thr Ile Ser Ser Leu Ser Leu Tyr
 625 630 635 640
 Thr Ser Ala Ile Leu Glu Ala Asn Leu Leu Pro Pro Glu Pro Lys
 645 650 655
 Glu Ser Trp Cys Arg Ile Met Asp Glu Leu Ser Asp Ile Ser Cys Asp
 660 665 670
 Leu Tyr Arg Gly Tyr Val Arg Glu Asn Lys Asp Phe Val Pro Tyr Phe
 675 680 685
 Arg Ser Ala Thr Pro Glu Gln Glu Leu Gly Lys Leu Pro Leu Gly Ser
 690 695 700
 Arg Pro Ala Lys Arg Arg Pro Thr Gly Gly Val Glu Ser Leu Arg Ala
 705 710 715 720
 Ile Pro Trp Ile Phe Ala Trp Thr Gln Asn Arg Leu Met Leu Pro Ala
 725 730 735
 Trp Leu Gly Ala Gly Ala Ala Leu Gln Lys Val Val Glu Asp Gly Lys
 740 745 750
 Gln Ser Glu Leu Glu Thr Met Cys Arg Asp Trp Pro Phe Phe Ser Thr
 755 760 765
 Arg Leu Gly Met Leu Glu Met Val Phe Ser Lys Ala Asp Leu Trp Leu

770	775	780
Ala Glu Tyr Tyr Asp	Gln Arg Leu Val Lys Pro	Glu Leu Trp Ala Leu
785	790	795
Gly Lys Glu Leu Arg	Glu Leu Leu Glu Gly Asp	Ile Lys Val Val Leu
805	810	815
Asp Ile Ala Asn Asp	Ser His Leu Met Glu Asp	Leu Pro Trp Ile Ala
820	825	830
Glu Ser Ile Gln Leu Arg	Asn Ile Tyr Thr Asp	Pro Leu Asn Val Leu
835	840	845
Gln Ala Glu Leu Leu His	Arg Ser Arg Leu Ala Glu	Glu Glu Gly Lys
850	855	860
Glu Pro Asp Pro Arg Val	Glu Gln Ala Leu Met	Val Thr Ile Ala Gly
865	870	875
Val Ala Ala Gly Met Arg	Asn Thr Gly	880
885	890	

<210> 8794

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 8794

Asn Arg Leu Phe Val	Gly Pro Ala Ser Thr Ser	Ala Ala Gly Gln Tyr
1	5	10
Pro Gly Ile His Thr	Met His His Asp Ile Thr	Gln Ile Leu Thr Asn
20	25	30
Leu Ile Asn Gly Thr Thr	Pro Leu Arg Gln Val His	Phe Ala Asn Ser
35	40	45
Ala Thr Ser Ala Pro Glu	Leu Ala Leu Gln Val Asp	Phe Pro Arg Leu
50	55	60
Glu Ile Ala Ile Glu Gly	Ser Met Lys Asp Gln Ala	Gly Cys Val Leu
65	70	75
Gln Gln Gly Asp Val Leu	Tyr Val Pro Ala Gly Gly	Trp Asn Asn Pro
85	90	95
Gln Trp Gln Ala Pro Ala	Thr Thr Leu Ser Ile Leu	Phe Gly Lys Gln
100	105	110
Gln Leu Gly Phe Ser Leu	Leu His Trp Asn Gly Ile Asp	Val Arg Asn
115	120	125
Leu Thr Lys Gln His Val	Ala Arg Arg Gly Pro Arg	Ile Gly Ser Leu
130	135	140
Leu Leu Gln Thr Leu His	Glu Met Gln Met Gln Pro	His Glu Gln Gln
145	150	155
Thr Ala Arg Leu Ile Ile	Ala Ser Leu Leu Ser His	Cys Val Asp Leu
165	170	175
Leu Gly Ser Gln Ile Gln	Thr Ala Ser Arg Ser Gln	Ala Leu Phe Glu
180	185	190
Ala Ile Arg Val Tyr Ile	Asp Glu His Tyr Ala Thr	Pro Leu Thr Arg
195	200	205
Glu Ser Val Ala Gln Ala	Phe Tyr Ile Ser Pro Asn	Tyr Leu Ser His
210	215	220
Leu Phe Gln Lys Thr Gly	Ala Val Gly Phe Asn Glu	Tyr Leu Thr His
225	230	235
Thr Arg Leu Glu His Ala	Arg Gln Leu Leu Lys Gly	Tyr Asp Leu Lys
245	250	255
Val Lys Glu Val Ala His	Ala Cys Gly Phe Val Asp	Ser Asn Tyr Phe
260	265	270
Cys Arg Leu Phe Arg Lys	Asn Thr Glu Arg Ser Pro	Ser Glu Tyr Arg
275	280	285
Arg Gln Tyr His Ser Gln	Leu Thr Gly Lys Val Ile	Ser Pro Glu
290	295	300

<210> 8795

<211> 393

<212> PRT

<213> Enterobacter cloacae

<400> 8795

Leu Leu Ala Ile Lys Ser Gly His Pro Leu His Asn Pro Tyr Asn Pro
 1 5 10 15
 Arg Val Ile Leu Tyr His Ser Gly Arg Ile Met Thr Pro Glu His Leu
 20 25 30
 Pro Thr Glu Gln Tyr Asp Ala Gln Leu Ala Glu Lys Val Val Arg Leu
 35 40 45
 Gln Ser Met Met Thr Pro Phe Asn Ala Pro Val Pro Glu Val Phe Arg
 50 55 60
 Ser Pro Val Ser His Tyr Arg Met Arg Ala Glu Phe Arg Ile Trp His
 65 70 75 80
 Asp Gly Asp Asp Leu Tyr His Ile Ile Phe Asp Gln Gln Thr Lys Ser
 85 90 95
 Arg Ile Arg Val Asp Ser Phe Pro Ala Ala Ser Glu Leu Ile Asn Gln
 100 105 110
 Leu Met Thr Leu Met Ile Asp Gly Val Arg Asn Asn Pro Val Leu Arg
 115 120 125
 Asn Lys Leu Phe Gln Ile Asp Tyr Leu Thr Thr Gln Ser Asn Gln Ala
 130 135 140
 Ile Val Ser Leu Leu Tyr His Lys Ala Leu Thr Asp Glu Trp Arg Glu
 145 150 155 160
 Gln Ala Glu Ala Leu Arg Asp Ala Leu Arg Ala Gln Asn Ile Asn Val
 165 170 175
 His Leu Ile Gly Arg Ala Thr Lys Thr Lys Ile Met Leu Asp Gln Asp
 180 185 190
 Tyr Ile Asp Glu Arg Leu Pro Val Ala Gly Lys Glu Met Val Tyr Arg
 195 200 205
 Gln Val Glu Asn Ser Phe Thr Gln Pro Asn Ala Ala Met Asn Val Gln
 210 215 220
 Met Leu Glu Trp Ala Leu Lys Ala Thr Glu Gly Ser Lys Gly Asp Leu
 225 230 235 240
 Leu Glu Leu Tyr Cys Gly Asn Gly Asn Phe Ser Leu Ala Leu Ala Arg
 245 250 255
 Asn Phe Glu Arg Val Leu Ala Thr Glu Ile Ala Lys Pro Ser Val Ala
 260 265 270
 Ala Ala Gln Tyr Asn Ile Ala Ala Asn His Ile Asp Asn Val Gln Ile
 275 280 285
 Ile Arg Met Ala Ala Glu Glu Phe Thr Gln Ala Met Asn Gly Val Arg
 290 295 300
 Glu Phe Asn Arg Leu Gln Gly Ile Asp Leu Lys Ser Tyr Gln Cys Glu
 305 310 315 320
 Thr Ile Phe Val Asp Pro Pro Arg Ser Gly Leu Asp Ser Glu Thr Glu
 325 330 335
 Lys Met Val Gln Ala Tyr Pro Arg Ile Leu Tyr Ile Ser Cys Asn Pro
 340 345 350
 Glu Thr Leu Cys Lys Asn Leu Glu Thr Leu Ser Gln Thr His Lys Val
 355 360 365
 Glu Arg Leu Ala Leu Phe Asp Gln Phe Pro Tyr Thr His His Met Glu
 370 375 380
 Cys Gly Val Leu Leu Thr Ala Arg
 385 390

<210> 8796

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 8796

Arg Gln Leu Arg Gly Asp Cys Phe Pro Ala Thr Thr Arg Ile Arg
 1 5 10 15
 Thr Val Lys Arg Gly Arg Val Met Glu Leu Tyr Leu Asp Thr Ala Asn
 20 25 30
 Val Ala Glu Val Glu Arg Leu Ala Arg Ile Phe Pro Ile Ala Gly Val
 35 40 45
 Thr Thr Asn Pro Ser Ile Ile Ala Ala Ser Arg Glu Ser Ile Trp Asp
 50 55 60
 Val Leu Pro Arg Leu Gln Lys Ala Ile Gly Pro Glu Gly Met Leu Phe
 65 70 75 80
 Ala Gln Thr Met Ser Arg Asp Ala Glu Glu Met Val Ala Glu Ala Lys
 85 90 95
 Arg Leu Asn Asn Ala Leu Pro Asp Ile Val Val Lys Ile Pro Val Thr
 100 105 110
 Ala Gln Gly Leu Ile Ala Ile Lys Ala Leu Lys Lys Glu Gly Ile Thr
 115 120 125
 Thr Leu Gly Thr Ala Val Tyr Ser Ala Ala Gln Gly Leu Leu Ala Ala
 130 135 140
 Leu Ala Gly Ala Lys Tyr Val Ala Pro Tyr Val Asn Arg Val Asp Ala
 145 150 155 160
 Gln Gly Gly Asp Gly Ile Gly Met Val Gln Glu Leu Gln Ser Leu Leu
 165 170 175
 Glu Leu His Ala Pro Glu Ser Met Val Leu Ala Ala Ser Phe Lys Thr
 180 185 190
 Pro Arg Gln Ala Leu Asp Cys Leu Leu Ala Gly Cys Glu Ala Ile Thr
 195 200 205
 Leu Pro Leu Asp Val Ala Gln Gln Met Leu Asp Thr Pro Ala Val Glu
 210 215 220
 Ser Ala Ile Glu Lys Phe Glu Gln Asp Trp Lys Asn Ala Phe Gly Asn
 225 230 235 240
 Leu Asn Leu

<210> 8797

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 8797

Gly Arg Thr Val Met Asp Arg Ile Ile Gln Ser Pro Gly Lys Tyr Ile
 1 5 10 15
 Gln Gly Ala Asp Val Leu Thr Arg Leu Gly Asp Tyr Leu Lys Pro Leu
 20 25 30
 Ala Asn Arg Trp Leu Val Val Gly Asp Lys Phe Val Leu Gly Phe Ala
 35 40 45
 Glu Glu Thr Leu Arg Gln Ser Phe Lys Lys Ala Gly Leu His Ala Glu
 50 55 60
 Ile Ala Pro Phe Gly Gly Glu Cys Ser Gln Asn Glu Ile Asp Arg Leu
 65 70 75 80
 Lys Lys Leu Ala Asp Ser Ala Asp Cys Leu Ala Val Leu Gly Ile Gly
 85 90 95
 Gly Gly Lys Thr Leu Asp Thr Ala Lys Ala Leu Ala His Phe Met Asp
 100 105 110
 Val Pro Val Ala Ile Ala Pro Thr Ile Ala Ser Thr Asp Ala Pro Cys
 115 120 125
 Ser Ala Leu Ser Val Ile Tyr Thr Asp Ser Gly Glu Phe Asp Arg Tyr
 130 135 140
 Leu Met Leu Pro His Asn Pro Asn Met Val Ile Val Asp Thr Lys Val
 145 150 155 160

Val Ala Gly Ala Pro Ala Arg Leu Leu Ala Ala Gly Ile Gly Asp Ala
 165 170 175
 Leu Ala Thr Trp Phe Glu Ala Arg Ala Cys Ser Arg Ser Gly Ala Thr
 180 185 190
 Thr Met Ala Gly Gly Lys Cys Thr Gln Ala Ala Leu Ala Leu Ala Glu
 195 200 205
 Leu Cys Tyr Asn Thr Leu Val Glu Gly Glu Lys Ala Met Leu Ala
 210 215 220
 Ala Glu Gln His Val Val Thr Pro Ala Leu Glu Arg Ile Ile Glu Ala
 225 230 235 240
 Asn Thr Tyr Leu Ser Gly Val Gly Phe Glu Ser Gly Gly Leu Ala Ala
 245 250 255
 Ala His Ala Ile His Asn Gly Met Thr Ala Val Pro Asp Ala His His
 260 265 270
 Phe Tyr His Gly Glu Lys Val Ala Phe Gly Thr Leu Thr Gln Leu Val
 275 280 285
 Leu Glu Asn Ala Pro Val Glu Glu Ile Glu Thr Val Ala Ala Leu Cys
 290 295 300
 His Ser Val Gly Leu Pro Ile Thr Leu Ala Gln Leu Asn Ile Lys Glu
 305 310 315 320
 Asp Ile Pro Ala Lys Met Arg Leu Ile Ala Glu Ala Ser Cys Ala Glu
 325 330 335
 Gly Glu Thr Ile His Asn Met Pro Gly Gly Val Thr Pro Asp Gln Val
 340 345 350
 Tyr Ala Ala Leu Leu Val Ala Asp Gln Tyr Gly Gln Arg Phe Leu Gln
 355 360 365
 Glu Trp Glu
 370

<210> 8798

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 8798

Ile Met Asn Ile Arg Asp Leu Glu Tyr Leu Val Ala Leu Ala Glu His
 1 5 10 15
 Arg His Phe Arg Arg Ala Ala Asp Ser Cys His Val Ser Gln Pro Thr
 20 25 30
 Leu Ser Gly Gln Ile Arg Lys Leu Glu Asp Glu Leu Gly Val Met Leu
 35 40 45
 Leu Glu Arg Thr Ser Arg Lys Val Leu Phe Thr Gln Ala Gly Leu Leu
 50 55 60
 Leu Val Asp Gln Ala Arg Thr Val Leu Arg Glu Val Lys Val Leu Lys
 65 70 75 80
 Glu Met Ala Ser Gln Gln Gly Glu Ala Met Ser Gly Pro Leu His Ile
 85 90 95
 Gly Leu Ile Pro Thr Val Gly Pro Tyr Leu Leu Pro Gln Ile Ile Pro
 100 105 110
 Met Leu His Gln Thr Phe Pro Lys Leu Glu Met Tyr Leu His Glu Ala
 115 120 125
 Gln Thr His Gln Leu Leu Ala Gln Leu Asp Ser Gly Lys Leu Asp Cys
 130 135 140
 Ala Ile Leu Ala Leu Val Lys Glu Ser Glu Ala Phe Ile Glu Val Pro
 145 150 155 160
 Leu Phe Asp Glu Pro Met Met Leu Ala Ile Tyr Glu Asp His Pro Trp
 165 170 175
 Ala Asn Arg Asp Arg Val Pro Met Ala Asp Leu Ala Gly Glu Lys Leu
 180 185 190
 Leu Met Leu Glu Asp Gly His Cys Leu Arg Asp Gln Ala Met Gly Phe
 195 200 205

Cys Phe Glu Ala Gly Ala Asp Glu Asp Thr His Phe Arg Ala Thr Ser
 210 215 220
 Leu Glu Thr Leu Arg Asn Met Val Ala Ala Gly Ser Gly Ile Thr Leu
 225 230 235 240
 Leu Pro Ala Leu Ala Val Pro His Glu Arg Lys Arg Asp Gly Val Val
 245 250 255
 Tyr Leu Pro Cys Ile Lys Pro Glu Pro Arg Arg Thr Ile Gly Leu Val
 260 265 270
 Tyr Arg Pro Gly Ser Pro Leu Arg Ser Arg Tyr Glu Gln Leu Ala Glu
 275 280 285
 Ala Ile Arg Gly Ala Met Asp Gly His Phe Asp Ser Ala Leu Lys Gln
 290 295 300
 Ala Val
 305

<210> 8799

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 8799

Pro Thr Cys Ser Ile Lys Ile Thr Arg Gln Phe Met Ala Thr Lys Leu
 1 5 10 15
 Gln Asp Gly Asn Thr Pro Cys Leu Ala Ala Thr Pro Ser Asp Pro Arg
 20 25 30
 Pro Thr Val Leu Leu Phe Asp Ser Gly Val Gly Gly Leu Ser Val Tyr
 35 40 45
 Asp Glu Ile Arg Gln Leu Leu Pro Asp Leu His Tyr Ile Tyr Ala Phe
 50 55 60
 Asp Asn Val Ala Phe Pro Tyr Gly Glu Lys Ser Glu Asp Phe Ile Val
 65 70 75 80
 Glu Arg Val Val Glu Ile Val Thr Ala Val Gln Lys Arg Tyr Pro Leu
 85 90 95
 Ala Leu Ala Val Ile Ala Cys Asn Thr Ala Ser Thr Val Ser Leu Pro
 100 105 110
 Ala Leu Arg Glu Lys Phe Pro Phe Pro Val Val Gly Val Val Pro Ala
 115 120 125
 Ile Lys Pro Ala Ala Arg Leu Thr Ala Asn Gly Ile Val Gly Leu Leu
 130 135 140
 Ala Thr Arg Gly Thr Val Lys Arg Pro Tyr Thr Arg Glu Leu Ile Glu
 145 150 155 160
 Arg Phe Ala Asn Glu Cys Gln Ile Ala Met Leu Gly Ser Ala Glu Leu
 165 170 175
 Val Glu Met Ala Glu Ala Lys Leu His Gly Glu Thr Val Ser Leu Glu
 180 185 190
 Glu Leu Arg Arg Ile Leu Arg Pro Trp Leu Arg Met Gln Glu Pro Pro
 195 200 205
 Asp Thr Val Val Leu Gly Cys Thr His Phe Pro Leu Leu Gln Glu Glu
 210 215 220
 Leu Leu Lys Val Leu Pro Glu Gly Thr Arg Leu Val Asp Ser Gly Ala
 225 230 235 240
 Ala Ile Ala Arg Arg Thr Ala Trp Leu Leu Glu His Glu Ala Pro Asp
 245 250 255
 Ala Lys Ser Ala Asp Ala Asn Ile Ala Phe Cys Met Ala Ile Thr Lys
 260 265 270
 Glu Thr Glu Gln Leu Leu Pro Val Leu Arg Arg Tyr Gly Phe Glu Thr
 275 280 285
 Leu Glu Lys Leu Ala Leu
 290 295

<210> 8800

<211> 829

<212> PRT

<213> *Enterobacter cloacae*

<400> 8800

Arg Phe Asn Cys Arg Ser Gly Lys Trp Leu Pro Gly Arg Ser Gln Gly
 1 5 10 15
 Val Ile Met Ser Val Ile Ala Gln Ala Gly Ala Lys Gly Arg Gln Leu
 20 25 30
 His Lys Phe Gly Gly Ser Ser Leu Ala Asp Val Lys Cys Tyr Leu Arg
 35 40 45
 Val Ala Gly Ile Met Thr Glu Tyr Ser Gln Pro Gly Asp Met Met Val
 50 55 60
 Val Ser Ala Ala Gly Ser Thr Thr Asn Gln Leu Ile Ser Trp Leu Lys
 65 70 75 80
 Leu Ser Gln Thr Asp Arg Leu Ser Ala His Gln Val Gln Gln Ser Leu
 85 90 95
 Arg Arg Tyr Gln Ser Glu Leu Ile Ala Gly Leu Leu Pro Ala Asp Val
 100 105 110
 Ala Asp Gly Leu Ile Ser Ala Phe Thr His Asp Leu Glu Arg Leu Ala
 115 120 125
 Ala Leu Leu Asp Ser Gly Ile Thr Asp Ala Val Tyr Ala Glu Val Val
 130 135 140
 Gly His Gly Glu Val Trp Ser Ala Arg Leu Met Ala Ala Val Leu Gln
 145 150 155 160
 His Leu Gly Val Glu Ala Ala Trp Leu Asp Ala Arg Asp Phe Leu Arg
 165 170 175
 Ala Glu Arg Ala Ala Gln Pro Gln Val Asp Glu Gly Leu Ser Tyr Pro
 180 185 190
 Leu Leu Gln Gln Leu Leu Val Gln His Pro Gly Lys Arg Ile Val Val
 195 200 205
 Thr Gly Phe Ile Ser Arg Ser Asn Ala Gly Glu Thr Val Leu Leu Gly
 210 215 220
 Arg Asn Gly Ser Asp Tyr Ser Ala Thr Gln Ile Gly Ala Leu Ala Gly
 225 230 235 240
 Val Ser Arg Val Thr Ile Trp Ser Asp Val Ala Gly Val Tyr Ser Ala
 245 250 255
 Asp Pro Arg Lys Val Lys Asp Ala Cys Leu Leu Pro Leu Leu Arg Leu
 260 265 270
 Asp Glu Ala Ser Glu Leu Ala Arg Leu Ala Ala Pro Val Leu His Ala
 275 280 285
 Arg Thr Leu Gln Pro Val Ser Gly Ser Asp Ile Asp Leu Gln Leu Arg
 290 295 300
 Cys Ser Tyr Thr Pro Asp Gln Gly Ser Thr Arg Ile Glu Arg Val Leu
 305 310 315 320
 Ala Ser Gly Thr Gly Ala Arg Ile Val Thr Ser His Asp Asp Ile Cys
 325 330 335
 Leu Ile Glu Phe Gln Val Pro Ala Gly Gln Asp Phe Lys Leu Ala His
 340 345 350
 Lys Asp Ile Asp Thr Ile Leu Lys Arg Ala Gln Val Arg Pro Leu Ala
 355 360 365
 Val Gly Val His Asn Asp Arg Gln Leu Leu Gln Phe Cys Tyr Thr Ala
 370 375 380
 Glu Val Val Asp Ser Ala Leu Lys Ile Leu Asp Glu Ala Gly Leu Pro
 385 390 395 400
 Gly Glu Leu Arg Leu Arg Gln Gly Leu Ala Leu Val Ala Met Val Gly
 405 410 415
 Ala Gly Val Thr Arg Asn Pro Leu His Cys His Arg Phe Trp Gln Gln
 420 425 430
 Leu Lys Gly Gln Pro Val Glu Phe Thr Trp Gln Ser Glu Glu Gly Ile
 435 440 445

Ser Leu Val Ala Val Leu Arg Lys Gly Pro Thr Glu Ser Leu Ile Gln
 450 455 460
 Gly Leu His Thr Ser Leu Phe Arg Ala Glu Lys Arg Ile Gly Leu Val
 465 470 475 480
 Leu Phe Gly Lys Gly Asn Ile Gly Ser Arg Trp Leu Glu Leu Phe Ala
 485 490 495
 Arg Glu Gln Val Thr Leu Ser Ala Arg Thr Gly Phe Glu Phe Ile Leu
 500 505 510
 Ala Gly Val Val Asp Ser Arg Arg Ser Leu Leu Asn Tyr Glu Gly Leu
 515 520 525
 Asp Ala Ser Arg Ala Leu Ala Phe Phe Asn Asp Glu Ala Val Glu Gln
 530 535 540
 Asp Glu Glu Ser Leu Phe Leu Trp Met Arg Ala His Pro Tyr Asp Asp
 545 550 555 560
 Leu Val Val Leu Asp Val Thr Ala Ser Glu Gln Leu Ala Asp Gln Tyr
 565 570 575
 Leu Asp Phe Ala Ser His Gly Phe His Val Ile Ser Ala Asn Lys Leu
 580 585 590
 Ala Gly Ala Ser Ser Thr Asp Lys Tyr Arg Gln Ile His Asp Ala Phe
 595 600 605
 Glu Lys Thr Gly Arg His Trp Leu Tyr Asn Ala Thr Val Gly Ala Gly
 610 615 620
 Leu Pro Val Asn His Thr Val Arg Asp Leu Ile Glu Ser Gly Asp Ser
 625 630 635 640
 Ile Leu Ala Leu Ser Gly Ile Phe Ser Gly Thr Leu Ser Trp Leu Phe
 645 650 655
 Leu Gln Phe Asp Gly Thr Val Pro Phe Thr Asp Leu Val Asp Gln Ala
 660 665 670
 Trp Gln Gln Gly Leu Thr Glu Pro Asp Pro Arg Val Asp Leu Ala Gly
 675 680 685
 Lys Asp Val Met Arg Lys Leu Val Ile Leu Ala Arg Glu Ala Gly Tyr
 690 695 700
 Asp Ile Glu Pro Gly Gln Val Arg Val Glu Ser Leu Val Pro Ala Gly
 705 710 715 720
 Cys Glu Glu Gly Ser Val Asp His Phe Phe Glu Asn Gly Asp Glu Leu
 725 730 735
 Asn Glu Gln Met Val Gln Arg Leu Glu Ala Ala Asn Glu Met Gly Leu
 740 745 750
 Val Leu Arg Tyr Val Ala Arg Phe Glu Ala Asn Gly Lys Ala Arg Val
 755 760 765
 Gly Val Glu Ala Val Arg Pro Glu His Pro Leu Ala Ala Leu Leu Pro
 770 775 780
 Cys Asp Asn Val Phe Ala Ile Glu Ser Arg Trp Tyr Arg Asp Asn Pro
 785 790 795 800
 Leu Val Ile Arg Gly Pro Gly Ala Gly Arg Asp Val Thr Ala Gly Ala
 805 810 815
 Ile Gln Ser Asp Ile Asn Arg Leu Ala Lys Leu Leu
 820 825

<210> 8801

<211> 113

<212> PRT

<213> *Enterobacter cloacae*

<400> 8801

Leu Ile Glu Glu Lys Asn Met Ala Arg Ile Ile Ala Val Thr Ala Cys
 1 5 10 15
 Pro Ser Gly Val Ala His Thr Tyr Met Ala Ala Glu Ala Leu Glu Ser
 20 25 30
 Ala Ala Lys Ser Lys Gly Trp Glu Val Lys Val Glu Thr Gln Gly Ser
 35 40 45

Ile Gly Leu Glu Asn Glu Leu Thr Ala Glu Asp Val Ala Ala Ala Asp
 50 55 60
 Met Val Ile Leu Thr Lys Asp Ile Gly Ile Lys Phe Glu Glu Arg Phe
 65 70 75 80
 Ala Gly Lys Thr Ile Val Arg Val Asn Ile Ser Asp Ala Val Lys Arg
 85 90 95
 Ala Asp Ala Ile Met Asn Lys Ile Asp Ala His Leu Ala Gln Ile Ala
 100 105 110

<210> 8802

<211> 783

<212> PRT

<213> Enterobacter cloacae

<400> 8802

Arg Ser Pro Ala Leu Arg Gly Gly Phe Val Phe Arg Tyr Arg Ser Ser
 1 5 10 15
 Leu Met Thr Asn Arg Ile Gln Arg Leu Lys Asp Ala Leu Phe Ala Ser
 20 25 30
 Pro Arg Glu Ile Ser Leu Glu Arg Ala Leu Leu Tyr Thr Ala Ser His
 35 40 45
 Gln Gln Thr Glu Gly Glu Pro Val Ile Leu Arg Arg Ala Lys Ala Thr
 50 55 60
 Ala Tyr Ile Leu Asp His Val Asn Ile Ala Ile Arg Asp Glu Glu Leu
 65 70 75 80
 Ile Ala Gly Asn Arg Thr Val Lys Pro Arg Ala Gly Ile Met Ser Pro
 85 90 95
 Glu Met Asp Pro Tyr Trp Leu Leu Lys Glu Leu Asp Gln Phe Ser Thr
 100 105 110
 Arg Pro Gln Asp Arg Phe Glu Ile Gly Glu Ala Asp Lys Gln Ile Tyr
 115 120 125
 Arg Asp Val Leu Tyr Pro Tyr Trp Glu Lys Arg Ser Met Lys Asp Phe
 130 135 140
 Ile Asn Ser Gln Met Thr Asp Glu Val Lys Ala Ala Val Gly Thr Gln
 145 150 155 160
 Ile Phe Ser Val Asn Gln Thr Asp Lys Gly Gln Gly His Ile Ile Ile
 165 170 175
 Asp Tyr Pro His Leu Leu Asn Asn Gly Leu Gly Ala Leu Val Glu Gln
 180 185 190
 Met Arg Glu Tyr Cys Ala Arg Asp Ala Gln Asn Thr Phe Tyr Ala Ala
 195 200 205
 Ala Leu Ile Leu Leu Glu Ala Ser Gln Arg His Ile Leu Arg Tyr Ala
 210 215 220
 Ala Leu Ala Glu Thr Leu Ala Thr Val Cys Asp Asp Ala Ser Arg Arg
 225 230 235 240
 Glu Glu Leu Arg Lys Ile Ala Glu Ile Ser Arg His Asn Ala Glu His
 245 250 255
 Lys Pro Gln Thr Phe Trp Gln Ala Cys Gln Leu Phe Tyr Trp Met Asn
 260 265 270
 Val Ile Leu Gln Tyr Glu Ser Asn Ala Ser Ser Leu Ser Ile Gly Arg
 275 280 285
 Phe Asp Gln Tyr Met Leu Pro Phe Tyr Gln Ala Ser Leu Thr Gln Gly
 290 295 300
 Asp Asp Pro Ala Phe Leu Lys Glu Leu Leu Glu Ser Leu Trp Val Lys
 305 310 315 320
 Cys Asn Asp Val Val Leu Leu Arg Ser Thr Ser Ser Ala Arg Tyr Phe
 325 330 335
 Ala Gly Phe Pro Thr Gly Tyr Thr Ala Leu Leu Gly Gly Leu Thr Glu
 340 345 350

Ser Gly Arg Asn Ala Val Asn Val Leu Ser Phe Leu Cys Leu Asp Ala
 355 360 365
 Tyr Gln Ser Val Gln Leu Pro Gln Pro Asn Leu Gly Val Arg Val Asn
 370 375 380
 Glu Leu Ile Asp Arg Pro Phe Leu Leu Lys Thr Ala Glu Thr Ile Arg
 385 390 395 400
 Leu Gly Thr Gly Ile Pro Gln Ile Phe Asn Asp Glu Val Val Val Pro
 405 410 415
 Ala Phe Leu Asn Arg Gly Val Ser Leu Glu Asp Ala Arg Asp Tyr Ala
 420 425 430
 Val Val Gly Cys Val Glu Leu Ser Ile Pro Gly Lys Thr Tyr Gly Leu
 435 440 445
 His Asp Ile Ala Met Phe Asn Leu Leu Lys Val Met Glu Ile Ala Met
 450 455 460
 Leu Glu Asn Glu Gly Asn Ser Thr Leu Ser Tyr Glu Gly Leu Leu Asp
 465 470 475 480
 His Ile Arg Ala Lys Ile Asn His Tyr Ile Ala Leu Met Val Glu Gly
 485 490 495
 Ser Asn Ile Cys Asp Ile Gly His Arg Asp Trp Ala Pro Val Pro Leu
 500 505 510
 Leu Ser Ser Phe Ile Ser Asp Cys Leu Glu Ser Gly Lys Asp Ile Thr
 515 520 525
 Asp Gly Gly Ala Arg Tyr Asn Phe Ser Gly Val Gln Gly Ile Gly Ile
 530 535 540
 Ala Asn Leu Ser Asp Ser Leu His Ala Leu Lys Gly Leu Val Phe Glu
 545 550 555 560
 Gln His Arg Leu Ser Phe Asp Glu Leu Leu Ala Val Leu Lys Ala Asn
 565 570 575
 Phe Ala Thr Pro Glu Gly Glu Lys Val Arg Ala Arg Leu Ile Asn Arg
 580 585 590
 Phe Glu Lys Tyr Gly Asn Asp Ile Asp Asp Val Asp Asn Ile Ser Ala
 595 600 605
 Glu Leu Leu Arg His Tyr Cys Lys Glu Val Glu Lys Tyr Arg Asn Pro
 610 615 620
 Arg Gly Gly Gln Phe Thr Pro Gly Ser Tyr Thr Val Ser Ala His Val
 625 630 635 640
 Pro Leu Gly Ala Val Val Gly Ala Thr Pro Asp Gly Arg Phe Ala Gly
 645 650 655
 Glu Gln Leu Ala Asp Gly Gly Leu Ser Pro Met Leu Gly Gln Asp Met
 660 665 670
 Gln Gly Pro Thr Ala Val Leu Lys Ser Val Ser Lys Leu Asp Asn Tyr
 675 680 685
 Leu Leu Ser Asn Gly Thr Leu Leu Asn Val Lys Phe Thr Pro Ala Thr
 690 695 700
 Leu Glu Gly Asp Ala Gly Leu Gln Lys Leu Ala Asp Phe Leu Arg Ala
 705 710 715 720
 Phe Thr Gln Leu Lys Leu Gln His Ile Gln Phe Asn Val Val Asn Ala
 725 730 735
 Glu Thr Leu Arg Glu Ala Gln Gln Arg Pro Gln Asp Phe Ala Gly Leu
 740 745 750
 Val Val Arg Val Ala Gly Tyr Ser Ala Phe Phe Val Glu Leu Ser Lys
 755 760 765
 Glu Ile Gln Asp Asp Ile Ile Arg Arg Thr Ala His Gln Leu
 770 775 780

<210> 8803

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 8803

Gly Val Ser Asp Ala Ser Thr Gly Arg Ala Arg Arg Phe Gln Cys Tyr
 1 5 10 15
 Arg Gly Arg Leu Asn Met Thr Val Ile Thr Gly Arg His Leu Val Ala
 20 25 30
 Val Thr Ala Cys Val Ser Gly Val Ala His Thr Tyr Met Ala Ala Glu
 35 40 45
 Arg Leu Glu Lys Leu Cys Gln Gln Glu Lys Trp Ser Val Asn Ile Glu
 50 55 60
 Thr Gln Gly Ala Leu Gly Val Glu Cys Glu Leu Thr Glu Asp Asp Ile
 65 70 75 80
 Arg Arg Ala Asp Val Val Leu Leu Ile Thr Asp Ile Glu Leu Ala Gly
 85 90 95
 Ser Glu Arg Phe Glu His Ala Arg Tyr Val Lys Cys Gly Ile Ser Ala
 100 105 110
 Phe Leu Arg Asp Pro Gln Lys Val Met Gly Ala Val Arg Lys Met Leu
 115 120 125
 Ala Ala Pro Gln His Thr Gln Val Ile Leu Asp
 130 135 140

<210> 8804

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 8804

Arg Asn Pro Met Leu Asn Thr Leu Ile Val Gly Ala Ser Gly Tyr Ala
 1 5 10 15
 Gly Ala Glu Leu Val Ser Tyr Val Asn Arg His Pro His Met Thr Ile
 20 25 30
 Thr Ala Leu Thr Val Ser Ala Gln Ser Asn Asp Ala Gly Lys Leu Ile
 35 40 45
 Ser Asp Leu His Pro Gln Leu Lys Gly Val Val Asp Leu Pro Leu Gln
 50 55 60
 Pro Met Ser Asp Ile Ser Glu Phe Thr Asp Gly Val Asp Val Val Phe
 65 70 75 80
 Leu Ala Thr Ala His Glu Val Ser His Asp Leu Ala Pro Gln Phe Leu
 85 90 95
 Ala Ala Gly Cys Val Val Phe Asp Leu Ser Gly Ala Phe Arg Val Asn
 100 105 110
 Asp Gly Ala Phe Tyr Glu Lys Tyr Tyr Gly Phe Thr His Gln His Pro
 115 120 125
 Asp Leu Leu Glu Lys Ala Val Tyr Gly Leu Ala Glu Trp Ser Ala Asp
 130 135 140
 Lys Leu Lys Glu Ala Asn Leu Ile Ala Val Pro Gly Cys Tyr Pro Thr
 145 150 155 160
 Ala Ala Gln Leu Ser Leu Lys Pro Leu Ile Asp Ala Gly Leu Leu Asp
 165 170 175
 Leu Asn Gln Trp Pro Val Ile Asn Ala Thr Ser Gly Val Ser Gly Ala
 180 185 190
 Gly Arg Lys Ala Ala Ile Ser Asn Ser Phe Cys Glu Val Ser Leu Gln
 195 200 205
 Ala Tyr Gly Val Phe Asn His Arg His His Pro Glu Ile Thr Thr His
 210 215 220
 Leu Gly Ala Asp Val Ile Phe Thr Pro His Leu Gly Ser Phe Pro Arg
 225 230 235 240
 Gly Ile Leu Glu Thr Ile Thr Cys Arg Leu Lys Pro Gly Val Thr Lys
 245 250 255
 Glu Gln Val Asn Glu Val Phe Thr Gln Ala Tyr Ala Asp Lys Pro Leu
 260 265 270
 Val Arg Leu Tyr Asp Lys Gly Val Pro Ala Leu Lys Asn Val Val Gly
 275 280 285

Leu Pro Phe Cys Asp Ile Gly Phe Ala Val Gln Gly Glu His Leu Ile
 290 295 300
 Val Val Ala Ala Glu Asp Asn Leu Leu Lys Gly Ala Ala Ala Gln Ala
 305 310 315 320
 Met Gln Cys Ala Asn Ile Arg Phe Gly Phe Pro Glu Thr Gln Ala Leu
 325 330 335
 Ile

<210> 8805

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 8805

Gly Val Met Met Asn Pro Leu Ile Ile Lys Leu Gly Gly Val Leu Leu
 1 5 10 15
 Asp Ser Glu Glu Ala Leu Glu Arg Leu Phe Asn Ala Leu Val Asn Tyr
 20 25 30
 Arg Glu Ser His Gln Arg Pro Leu Val Ile Val His Gly Gly Cys
 35 40 45
 Val Val Asp Glu Leu Met Lys Gly Leu Asn Leu Pro Val Lys Lys Lys
 50 55 60
 Asn Gly Leu Arg Val Thr Pro Ala Asp Gln Ile Asp Ile Ile Thr Gly
 65 70 75 80
 Ala Leu Ala Gly Thr Ala Asn Lys Thr Leu Leu Ala Trp Ala Lys Lys
 85 90 95
 His His Ile Ala Ser Val Gly Leu Tyr Leu Gly Asp Gly Asp Ser Val
 100 105 110
 Lys Val Thr Gln Leu Asp Glu Glu Leu Gly His Val Gly Leu Ala Gln
 115 120 125
 Pro Gly Ser Pro Lys Leu Ile Asn Thr Leu Leu Glu Gly Gly Phe Leu
 130 135 140
 Pro Val Val Ser Ser Ile Gly Val Thr Glu Glu Gly Glu Leu Met Asn
 145 150 155 160
 Val Asn Ala Asp Gln Ala Ala Thr Ala Leu Ala Ala Thr Leu Gly Ala
 165 170 175
 Asp Leu Ile Leu Leu Ser Asp Val Ser Gly Ile Leu Asp Gly Lys Gly
 180 185 190
 Gln Arg Ile Ala Glu Met Thr Ala Ala Lys Ala Glu Gln Leu Ile Asp
 195 200 205
 Gln Gly Ile Ile Thr Asp Gly Met Ile Val Lys Val Asn Ala Ala Leu
 210 215 220
 Asp Ala Ala Arg Thr Leu Gly Arg Pro Val Asp Ile Ala Ser Trp Arg
 225 230 235 240
 His Ala Glu Gln Leu Pro Ala Leu Phe Asn Gly Thr Pro Ile Gly Thr
 245 250 255
 Arg Ile Leu Ala
 260

<210> 8806

<211> 473

<212> PRT

<213> Enterobacter cloacae

<400> 8806

Ala Gln Arg His Arg Ala Lys Ile Ser Ser Leu Arg Lys Phe Val Met
 1 5 10 15
 Ala Leu Trp Gly Gly Arg Phe Thr Gln Ala Ala Asp Gln Arg Phe Lys
 20 25 30
 Gln Phe Asn Asp Ser Leu Arg Phe Asp Tyr Arg Leu Ala Glu Gln Asp

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<210> 8807
<211> 269
<212> PRT
<213> Enterobacter cloacae
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<400> 8807

Lys Gln Gln Asn His Asn Ile Ile Ala Arg Val Thr Gln Leu Ser Leu
 1 5 10 15
 Cys Phe Phe Arg Ala Val Glu His Lys Pro Arg Val Asn Asn His Ser
 20 25 30
 Gln Ser Gln Val Asn Arg Leu Ile Leu Phe Ser Gly Ile Val Pro Thr
 35 40 45
 Gly Leu Trp Lys Asp Ser Thr Ile Val Met Gly Val Arg Ala Gln Gln
 50 55 60
 Lys Glu Lys Thr Arg Arg Ser Leu Val Glu Ala Ala Phe Ser Gln Leu
 65 70 75 80
 Ser Ala Glu Arg Ser Phe Ala Ser Leu Ser Leu Arg Glu Val Ala Arg
 85 90 95
 Glu Ala Gly Ile Ala Pro Thr Ser Phe Tyr Arg His Phe Arg Asp Val
 100 105 110
 Asp Glu Leu Gly Leu Thr Met Val Asp Glu Ser Gly Leu Met Leu Arg
 115 120 125
 Gln Leu Met Arg Gln Ala Arg Gln Arg Ile Ala Lys Gly Gly Ser Val
 130 135 140
 Ile Arg Thr Ser Val Ser Thr Phe Met Glu Phe Ile Gly Asn Asn Pro
 145 150 155 160
 Asn Ala Phe Arg Leu Leu Leu Arg Glu Arg Ser Gly Thr Ser Ala Ala
 165 170 175
 Phe Arg Ala Ala Val Ala Arg Glu Ile Gln His Phe Ile Ala Glu Leu
 180 185 190
 Ala Asp Tyr Leu Glu Leu Glu Asn His Met Pro Arg Ala Phe Thr Glu
 195 200 205
 Ala Gln Ala Glu Ala Met Val Thr Ile Val Phe Ser Ala Gly Ala Glu
 210 215 220
 Ala Leu Asp Val Ser Ile Glu Gln Arg Lys Gln Leu Glu Glu Arg Leu
 225 230 235 240
 Val Leu Gln Leu Arg Met Ile Ser Lys Gly Ala Tyr Tyr Trp Tyr Arg
 245 250 255
 Arg Glu Gln Glu Lys Leu Ala His Gln Asn Asp Glu
 260 265

<210> 8808

<211> 126

<212> PRT

<213> *Enterobacter cloacae*

<400> 8808

Val Met Lys Gln Ser Gly Gln Asp Lys Gly Thr Leu Leu Leu Ala Leu
 1 5 10 15
 Ile Ala Gly Leu Ser Ile Asn Gly Thr Phe Ala Ala Val Phe Ser Ser
 20 25 30
 Ile Val Pro Phe Ser Ile Phe Pro Ile Ile Ala Leu Val Leu Thr Val
 35 40 45
 Tyr Cys Leu His Gln Arg Tyr Leu Asn Arg Thr Met Pro Val Gly Leu
 50 55 60
 Pro Gly Leu Ala Ala Ala Cys Phe Ile Leu Gly Val Leu Leu Tyr Ser
 65 70 75 80
 Thr Val Val Arg Ala Glu Tyr Pro Asp Ile Gly Ser Asn Phe Leu Pro
 85 90 95
 Ala Val Leu Ser Val Ala Leu Val Phe Trp Ile Gly Ser Arg Met Arg
 100 105 110
 Ser Arg Lys Ser Glu Leu Pro Glu Tyr Arg Arg Val Leu
 115 120 125

<210> 8809

<211> 208

<212> PRT

<213> *Enterobacter cloacae*

<400> 8809

Arg Gly Ser Leu Arg Ser Gly Glu Asp Ala Asp Leu Val Leu His Ser
 1 5 10 15
 Cys Thr Lys Tyr Leu Asn Gly His Ser Asp Val Val Ala Gly Val Val
 20 25 30
 Ile Ala Lys Asp Pro Asp Val Val Thr Glu Leu Ala Trp Trp Ala Asn
 35 40 45
 Asn Ile Gly Val Thr Ala Gly Ala Phe Asp Ser Tyr Leu Leu Leu Arg
 50 55 60
 Gly Ile Arg Thr Leu Ser Pro Arg Met Asp Val Ala Gln Arg Asn Ala
 65 70 75 80
 Gln Ala Ile Val Asp Phe Leu Lys Thr Gln Pro Leu Val Lys Lys Leu
 85 90 95
 Tyr His Pro Ser Leu Pro Glu Asn Gln Gly His Glu Ile Ala Ala Arg
 100 105 110
 Gln Gln Lys Gly Phe Gly Ala Met Leu Ser Phe Glu Leu Asp Gly Asp
 115 120 125
 Glu Gln Thr Leu Arg Arg Phe Leu Ser Gly Leu Ser Leu Phe Thr Leu
 130 135 140
 Ala Glu Ser Leu Gly Gly Val Glu Ser Leu Ile Ser His Ala Ala Thr
 145 150 155 160
 Met Thr His Ala Gly Met Ala Pro Glu Ala Arg Ala Ala Gly Ile
 165 170 175
 Ser Glu Thr Leu Leu Arg Ile Ser Thr Gly Ile Glu Asp Ser Glu Asp
 180 185 190
 Leu Ile Ala Asp Leu Glu Asn Gly Phe Arg Val Ala Ala Lys Gly
 195 200 205

<210> 8810

<211> 298

<212> PRT

<213> *Enterobacter cloacae*

<400> 8810

Gly Met Ser Phe Phe His Ala Asn Gln Arg Glu Ala Leu Asn Gln Ser
 1 5 10 15
 Leu Ala Glu Val Asn Gly Gln Ile Asn Val Ser Phe Glu Phe Phe Pro
 20 25 30
 Pro Arg Thr Ser Glu Met Glu Gln Thr Leu Trp Ser Ser Ile Asp Arg
 35 40 45
 Leu Ser Ser Leu Lys Pro Lys Phe Val Ser Val Thr Tyr Gly Ala Asn
 50 55 60
 Ser Gly Glu Arg Asp Arg Thr His Ser Ile Ile Lys Gly Ile Lys Asp
 65 70 75 80
 Arg Thr Gly Leu Glu Ala Ala Pro His Leu Thr Cys Ile Asp Ala Thr
 85 90 95
 Arg Asp Glu Leu Arg Ala Ile Ala Gln Asp Tyr Trp Asn Asn Gly Ile
 100 105 110
 Arg His Ile Val Ala Leu Arg Gly Asp Leu Pro Pro Gly Ser Gly Lys
 115 120 125
 Pro Glu Met Phe Ala Ala Asp Leu Val Gly Leu Leu Lys Asp Val Ala
 130 135 140
 Asp Phe Asp Ile Ser Val Ala Ala Tyr Pro Glu Val His Pro Glu Ala
 145 150 155 160
 Lys Ser Ala Gln Ala Asp Leu Leu Asn Leu Lys Arg Lys Val Glu Ala
 165 170 175
 Gly Ala Asn Arg Ala Ile Thr Gln Phe Phe Phe Asp Val Glu Ser Tyr
 180 185 190

Leu Arg Phe Arg Asp Arg Cys Val Ser Ala Gly Ile Asp Val Glu Ile
 195 200 205
 Ile Pro Gly Ile Leu Pro Val Ser Asn Phe Lys Gln Ala Lys Lys Phe
 210 215 220
 Ala Asp Met Thr Asn Val Arg Ile Pro Leu Trp Met Ser Lys Met Tyr
 225 230 235 240
 Glu Gly Leu Asp Asp Pro Glu Thr Arg Lys Leu Val Gly Ala Asn
 245 250 255
 Ile Ala Met Asp Met Val Lys Ile Leu Ser Arg Glu Gly Val Lys Asp
 260 265 270
 Phe His Phe Tyr Thr Leu Asn Arg Ala Glu Met Ser Tyr Ala Ile Cys
 275 280 285
 His Thr Leu Gly Val Arg Pro Ala Leu
 290 295

<210> 8811

<211> 734

<212> PRT

<213> Enterobacter cloacae

<400> 8811

His Cys Lys Gly Ser Ile Ala Met Ser Met Ser Asp Glu Thr Asn Asn
 1 5 10 15
 Ala Ala Ser Ala Gly Lys Cys Pro Phe His Gln Gly Gly Val Asp His
 20 25 30
 Ser Ala Gly Ala Gly Thr Gly Ser Lys Asp Trp Trp Pro Lys Gln Leu
 35 40 45
 Arg Ile Asp Leu Leu Asn Gln His Ser Asn Arg Ser Asn Pro Leu Gly
 50 55 60
 Glu Asp Phe Asp Tyr Arg Lys Glu Phe Ser Lys Leu Asp Tyr Ser Ala
 65 70 75 80
 Leu Lys Gly Asp Leu Lys Ala Leu Leu Thr Asp Ser Gln Pro Trp Trp
 85 90 95
 Pro Ala Asp Trp Gly Ser Tyr Ala Gly Leu Phe Ile Arg Met Ala Trp
 100 105 110
 His Gly Ala Gly Thr Tyr Arg Ser Val Asp Gly Arg Gly Gly Ala Gly
 115 120 125
 Arg Gly Gln Gln Arg Phe Ala Pro Leu Asn Ser Trp Pro Asp Asn Val
 130 135 140
 Ser Leu Asp Lys Ala Arg Arg Leu Leu Trp Pro Val Lys Gln Lys Tyr
 145 150 155 160
 Gly Gln Lys Ile Ser Trp Ala Asp Leu Phe Ile Leu Ala Gly Asn Val
 165 170 175
 Ala Leu Glu Asn Ser Gly Phe Arg Thr Phe Gly Phe Gly Ala Gly Arg
 180 185 190
 Glu Asp Val Trp Glu Pro Asp Leu Asp Val Asn Trp Gly Asp Glu Lys
 195 200 205
 Ala Trp Leu Thr His Arg Asp Pro Glu Ala Leu Ala Lys Arg Pro Leu
 210 215 220
 Ala Ala Thr Glu Met Gly Leu Ile Tyr Val Asn Pro Glu Gly Pro Asn
 225 230 235 240
 Ala Ser Gly Glu Pro Leu Ser Ala Ala Ala Ile Arg Ala Thr Phe
 245 250 255
 Gly Asn Met Gly Met Asn Asp Glu Glu Thr Val Ala Leu Ile Ala Gly
 260 265 270
 Gly His Thr Leu Gly Lys Thr His Gly Ala Gly Glu Ala Thr His Val
 275 280 285
 Gly Thr Asp Pro Glu Ala Ser Pro Ile Glu Ala Gln Gly Leu Gly Trp
 290 295 300
 Ala Ser Thr His Gly Thr Gly Ile Gly Ala Asp Ala Ile Thr Ser Gly
 305 310 315 320

Leu Glu Val Ile Trp Ser Gln Thr Pro Thr Gln Trp Ser Asn Tyr Phe
 325 330 335
 Phe Glu Asn Leu Phe Lys Tyr Glu Trp Val Gln Thr Arg Ser Pro Ala
 340 345 350
 Gly Ala Ile Gln Phe Glu Ala Val Asp Ala Pro Glu Ile Met Pro Asp
 355 360 365
 Pro Phe Asp Pro Ser Lys Lys Arg Lys Pro Thr Met Leu Val Thr Asp
 370 375 380
 Leu Thr Leu Arg Phe Asp Pro Glu Phe Glu Lys Ile Ser Arg Arg Phe
 385 390 395 400
 Leu Asn Asp Pro Gln Ala Phe Asn Glu Ala Phe Ala Arg Ala Trp Phe
 405 410 415
 Lys Leu Thr His Arg Asp Met Gly Pro Lys Ala Arg Tyr Ile Gly Pro
 420 425 430
 Glu Val Pro Lys Glu Asp Leu Ile Trp Gln Asp Pro Leu Pro Gln Pro
 435 440 445
 Val Phe His Pro Thr Gln Glu Asp Ile Glu Ser Leu Lys Ala Glu Ile
 450 455 460
 Ala Ala Ser Gly Leu Ser Val Ser Glu Leu Val Ser Val Ala Trp Ala
 465 470 475 480
 Ser Ala Ser Thr Phe Arg Gly Gly Asp Lys Arg Gly Gly Ala Asn Gly
 485 490 495
 Ala Arg Leu Ala Leu Ala Pro Gln Arg Asp Trp Asp Val Asn Ala Ala
 500 505 510
 Ala Val Arg Ala Leu Pro Ala Leu Glu Ala Ile Gln Arg Thr Thr Asn
 515 520 525
 Lys Ala Ser Leu Ala Asp Ile Ile Val Leu Ala Gly Val Val Gly Val
 530 535 540
 Glu Gln Ala Ala Lys Ala Ala Gly Val Tyr Val Asn Val Pro Phe Thr
 545 550 555 560
 Pro Gly Arg Val Asp Ala Arg Gln Asp Gln Thr Asp Ile Glu Met Phe
 565 570 575
 Asn Leu Leu Glu Pro Val Ala Asp Gly Phe Arg Asn Tyr Arg Ala Gln
 580 585 590
 Val Asp Val Ser Thr Thr Glu Ser Leu Leu Ile Asp Lys Ala Gln Gln
 595 600 605
 Leu Thr Leu Thr Ala Pro Glu Leu Thr Val Leu Ile Gly Gly Leu Arg
 610 615 620
 Val Leu Gly Ala Asn Phe Asp Gly Ser Lys Asn Gly Val Phe Thr Asn
 625 630 635 640
 Arg Glu Gly Val Leu Ser Asn Asp Phe Phe Val Asn Leu Leu Asp Met
 645 650 655
 Asn Thr Gln Trp Lys Ala Thr Asp Asp Ser Asn Glu Leu Phe Ala Gly
 660 665 670
 Ser Asp Arg Ala Ser Gly Glu Val Lys Tyr Thr Ala Thr Arg Ala Asp
 675 680 685
 Leu Val Phe Gly Ser Asn Ala Val Leu Arg Ala Leu Ala Glu Val Tyr
 690 695 700
 Ala Ser Ser Asp Ala His Glu Lys Phe Val Arg Asp Phe Val Ala Ala
 705 710 715 720
 Trp Ala Arg Val Met Asp Leu Asp Arg Phe Asp Val Lys
 725 730

<210> 8812

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 8812

Leu Pro Ile Val Cys His Asn Ile Phe Met Val Leu Gly Gln Glu Arg
 1 5 10 15

His Met Lys Glu Leu Val His Ile Leu Lys Asn Thr Arg Gln His Leu
 20 25 30
 Met Thr Gly Val Ser His Met Ile Pro Phe Val Val Ser Gly Gly Ile
 35 40 45
 Leu Leu Ala Val Ser Val Met Leu Tyr Gly Lys Gly Ala Val Pro Asp
 50 55 60
 Ala Ala Thr Asp Pro Asn Leu Lys Lys Leu Phe Asp Ile Gly Val Ala
 65 70 75 80
 Gly Leu Thr Leu Met Val Pro Phe Leu Ala Ala Tyr Ile Gly Tyr Ser
 85 90 95
 Ile Ala Glu Arg Ala Ala Leu Ala Pro Cys Ala Ile Ala Ala Trp Val
 100 105 110
 Gly Asn Ser Phe Gly Ala Gly Phe Gly Ala Ile Ile Ala Gly Ile
 115 120 125
 Phe Gly Gly Ile Val Val Trp Tyr Leu Lys Lys Leu Pro Val Pro Lys
 130 135 140
 Val Leu Arg Ser Val Met Pro Ile Phe Ile Ile Pro Ile Ile Gly Thr
 145 150 155 160
 Phe Ile Thr Ala Gly Ile Met Met Trp Gly Leu Gly Glu Pro Val Gly
 165 170 175
 Ala Leu Thr Thr Gly Leu Thr Gln Trp Leu Gln Gly Met Gln Gln Gly
 180 185 190
 Ser Ile Val Val Leu Ala Ile Ile Ile Gly Leu Met Leu Ala Phe Asp
 195 200 205
 Met Gly Gly Pro Val Asn Lys Val Ala Tyr Ala Phe Met Leu Ile Cys
 210 215 220
 Val Ala Gln Gly Val Tyr Thr Val Val Ala Ile Ala Ala Val Ala Ile
 225 230 235 240
 Cys Ile Pro Pro Leu Gly Leu Gly Leu Ala Thr Leu Ile Asn Arg Lys
 245 250 255
 Ser Phe Thr Gly Glu Glu Arg Glu Ala Gly Lys Ala Ala Leu Val Met
 260 265 270
 Gly Cys Val Gly Val Thr Glu Gly Ala Ile Pro Phe Ala Ala Ala Asp
 275 280 285
 Pro Leu Arg Val Ile Pro Ser Ile Met Leu Gly Ser Ala Cys Gly Ala
 290 295 300
 Val Thr Ala Ala Val Met Gly Ala Gln Cys Tyr Ala Gly Trp Gly Gly
 305 310 315 320
 Leu Ile Val Leu Pro Val Val Glu Gly Lys Leu Gly Tyr Ile Val Ala
 325 330 335
 Val Ala Val Gly Ala Val Val Thr Ala Ile Ser Val Asn Val Leu Lys
 340 345 350
 Ser Phe Ala Arg Lys Asn Ala Lys Gln Val Glu Glu Lys Glu Asp Asp
 355 360 365
 Leu Asp Leu Asp Phe Glu Ile Asn
 370 375

<210> 8813

<211> 329

<212> PRT

<213> *Enterobacter cloacae*

<400> 8813

Thr Arg Lys His Cys Val Lys Arg Asn Ser Val His Arg Ile Leu Pro
 1 5 10 15
 Gly Trp Trp Cys Ala Leu Leu Ala Thr Ala Pro Ser Leu Leu Ser Tyr
 20 25 30
 Arg Arg Arg Ser Arg Met Thr Leu Ser Ala Ala Gln Arg Ile Ser Cys
 35 40 45
 Asp Val Val Glu Thr His Ala Glu Val Ala Arg Ile Phe Asn Ile Gln
 50 55 60

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Arg Tyr Ser Leu Asn Asp Gly Arg Gly Ile Arg Thr Val Val Phe Phe
65      70      75      80
Lys Gly Cys Pro His Arg Cys Pro Trp Cys Ala Asn Pro Glu Ser Ile
      85      90      95
Ser Pro Lys Ile Glu Thr Val Arg Arg Glu Ser Lys Cys Leu His Cys
      100      105      110
Ala Pro Cys Leu Arg Asp Val Asp Glu Cys Pro Ser Gly Ala Phe Glu
      115      120      125
Pro Ile Gly Arg Asp Val Thr Leu Glu Glu Leu Val Ser Glu Val Met
      130      135      140
Lys Asp Asp Val Phe Phe Arg Ser Ser Gly Gly Val Thr Leu Ser
145      150      155      160
Gly Gly Glu Val Leu Leu His Ala Pro Phe Ala Thr Lys Phe Leu Gln
      165      170      175
Gly Leu Arg Arg Phe Gly Val His Thr Ala Ile Glu Thr Ala Gly Asp
      180      185      190
Ala Pro Leu Ser Arg Leu Met Pro Leu Ala Arg Gln Cys Asp Glu Val
      195      200      205
Leu Phe Asp Leu Lys Ile Met Asp Ala Asp Leu Ala Gln Ser Ile Val
      210      215      220
Ala Met Asn Leu Pro Arg Val Leu Asp Asn Phe Arg Gln Leu Val Ala
225      230      235      240
Asp Gly Ile Asn Val Ile Pro Arg Val Pro Leu Ile Pro Gly Tyr Thr
      245      250      255
Leu Asn Glu Thr Asn Met Ala Arg Val Leu Ala Phe Leu Leu Pro Ser
      260      265      270
Gly Ile Arg Gln Leu His Leu Leu Pro Phe His Gln Tyr Gly Glu Pro
      275      280      285
Lys Tyr Arg Leu Leu Gly Gln Glu Trp Gly Met Arg Gln Ala Thr Pro
      290      295      300
Pro Thr Glu Asp Glu Val Ser Ala Met Arg Gln Leu Ala Glu Arg Glu
305      310      315      320
Gly Phe Asn Val Thr Val Gly Gly
      325

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<210> 8814

<211> 630

<212> PRT

<213> Enterobacter cloacae

<400> 8814

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Gly Leu Arg His Pro Ser Tyr Ile Val Asp Ala Leu Thr Met Ile Lys
1      5      10      15
Lys Val Ser Leu Leu Thr Val Phe Ser Val Thr Ala Phe Ser Gly Trp
      20      25      30
Ala Gln Glu Ser Ala Asp Ser Leu Val Val Thr Ala Asn Arg Phe Glu
      35      40      45
Gln Pro Ala Lys Thr Val Leu Ala Pro Thr Ser Val Val Thr Arg Glu
      50      55      60
Asp Ile Glu Arg Trp Gln Ala Thr Ser Val Val Glu Ile Met Ser Arg
65      70      75      80
Leu Pro Gly Val Asp Ile Ala Gln Ser Gly Gly Met Gly Ser Thr Ser
      85      90      95
Ser Thr Phe Ile Arg Gly Thr Glu Ser Arg His Val Leu Val Leu Ile
      100      105      110
Asp Gly Ile Pro Leu Asn Asn Ala Gly Ile Ser Asn Val Pro Asp Leu
      115      120      125
Ser Gln Ile Pro Thr Ser Leu Ile Gln Arg Ile Glu Tyr Ile Arg Gly
      130      135      140
Pro Arg Ser Ala Leu Tyr Gly Ser Asp Ala Ile Gly Gly Val Ile Asn
145      150      155      160

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Ile Ile Thr Gly Arg Asp Lys Pro Gly Ala Glu Ile Ser Ala Gly Val
 165 170 175
 Gly Ser Lys Gly Tyr Gln Asn Tyr Asn Gly Ala Phe Gln Gln Val Phe
 180 185 190
 Asp Lys Thr Lys Ile Thr Met Ala Gly Asp Tyr Thr Tyr Thr Arg Gly
 195 200 205
 Phe Asp Ile Ala Ala Lys Asp Ala Pro Arg Gln Pro Asp Arg Asp Gly
 210 215 220
 Phe Met Ser Lys Ser Leu Phe Gly Ser Val Glu Gln Gln Phe Thr Asp
 225 230 235 240
 Ser Val Ser Gly Phe Val Arg Gly Phe Gly Tyr Asp Asn Arg Ser Ala
 245 250 255
 Tyr Asp Gly Tyr Asp His Tyr Gly Ala Thr Gly Ile Asp Gly Arg Pro
 260 265 270
 Asp Thr Arg Gln Val Tyr Ser Gln Asn Trp Asp Thr Gly Leu Arg Tyr
 275 280 285
 Asn Gln Gly Ile Phe Gln Ser Gln Leu Val Ala Gly Tyr Gly Arg Ser
 290 295 300
 Lys Asp Gln Asn Tyr Asp Pro Lys Lys Gly Arg Tyr Ala Asp Ser Ala
 305 310 315 320
 Thr Met Asp Asp Val Lys Gln Tyr Thr Thr Gln Trp Leu Asn Thr Val
 325 330 335
 Glu Val Gly His Gly Asn Ile Gly Ala Gly Leu Asp Trp Gln Lys Gln
 340 345 350
 Lys Thr Gln Ala Gly Thr Gly Tyr Leu Glu Lys Gly Tyr Glu Gln Arg
 355 360 365
 Asn Thr Gly Val Phe Leu Ser Ala Met Gln Gln Phe Asn Ser Val Thr
 370 375 380
 Leu Glu Ala Ala Ala Arg Asn Asp Asp Asn Ser Asn Phe Gly Asn His
 385 390 395 400
 Ala Thr Trp Gln Thr Ser Ala Ala Trp Glu Phe Ile Asp Gly Tyr Arg
 405 410 415
 Ile Ile Gly Ser Tyr Gly Thr Ala Tyr Lys Ala Pro Thr Met Ser Gln
 420 425 430
 Ile His Ser Lys Asp Tyr Gly Asn Pro Asp Leu Lys Pro Glu Glu Ser
 435 440 445
 Lys Gln Trp Glu Gly Gly Phe Glu Gly Leu Thr Gly Pro Val Asn Trp
 450 455 460
 Arg Val Thr Gly Tyr Arg Asn Asp Ile Asp Asn Leu Ile Asn Ser Asp
 465 470 475 480
 Pro Arg Thr Tyr Arg Tyr Tyr Asn Val Asp Glu Ala Arg Ile Lys Gly
 485 490 495
 Ile Glu Ala Thr Ala Gln Phe Asp Thr Gly Pro Val Gly His Gln Ile
 500 505 510
 Ser Tyr Asp Tyr Val Asp Pro Arg Asn Ala Lys Thr Asn Glu Val Leu
 515 520 525
 Ala Arg Arg Ser Lys Gln Gln Val Lys Tyr Gln Leu Asp Trp Gln Val
 530 535 540
 Trp Asp Leu Asp Trp Asn Leu Ala Tyr Arg Tyr Leu Gly Thr Arg Tyr
 545 550 555 560
 Asp Val Ala Val Asp Pro Asn Thr Tyr Ala Thr Glu Arg Val Lys Met
 565 570 575
 Gly Gly Val Ser Leu Trp Asp Val Ala Val Ser Tyr Pro Val Thr Ser
 580 585 590
 His Leu Thr Val Arg Gly Lys Ile Ala Asn Leu Phe Asp Lys Asp Tyr
 595 600 605
 Glu Thr Val Tyr Gly Tyr Gln Thr Ala Gly Arg Glu Tyr Thr Leu Ser
 610 615 620
 Gly Ser Tyr Thr Phe
 625 630

<210> 8815

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 8815

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Arg Gln Ile Phe Leu Ser Arg Val Asn Leu Met Thr Thr Gln Arg Leu
1      5      10      15
Gln Arg Asp Trp Arg Leu Pro Thr Ala Gly Leu Ala Val Leu Val Leu
20      25      30
Leu Met Ala Gly Phe Ala Leu His Glu His Trp Asn Ala Phe Ile Gln
35      40      45
Trp Cys Leu Ala Thr Gln Ile Thr Leu His Arg Tyr Leu Val Met Tyr
50      55      60
Leu Leu Gln Leu Asn Asn His Gln Tyr Arg Gly Gly Leu Trp Leu Leu
65      70      75      80
Thr Gly Ala Phe Leu Tyr Gly Val Leu His Ala Val Gly Pro Gly His
85      90      95
Gly Lys Phe Ile Val Thr Thr Tyr Leu Thr Thr Asn Lys Glu Ser Gln
100      105      110
Leu Ala Ala Arg Val Val Pro Phe Ile Gly Ser Leu Met Gln Gly Val
115      120      125
Ser Ala Ile Ala Phe Val Phe Ile Leu Ala Val Gly Leu Asn Leu Ala
130      135      140
Ser Gly Asp Ile Ser Thr Ser Arg Trp Tyr Val Glu Lys Ile Ser Ala
145      150      155      160
Leu Leu Ile Ala Ala Phe Gly Ala Phe Ile Ile Tyr Gln Ala Leu Ser
165      170      175
Ser Leu Arg Pro Arg Lys Met Ala Ile Ser Ala Ile Lys Pro Leu His
180      185      190
Gln His Asn Glu His Cys Gly Cys Gly His His Gly Val Gly Val Asp
195      200      205
Leu Ala Lys Ser Asp Trp Lys Thr Arg Leu Gly Val Val Leu Ala Ile
210      215      220
Gly Ala Arg Pro Cys Ser Gly Ala Ile Met Ile Leu Met Phe Ser Asn
225      230      235      240
Ala Leu Gly Ile Ile Ser Trp Gly Ile Ala Ala Val Met Thr Met Ser
245      250      255
Leu Gly Thr Ala Leu Ser Ile Met Gly Leu Ser Leu Ala Val Arg Tyr
260      265      270
Ala Arg Glu Arg Thr Val Ala Trp Phe Gly Gly Gly Thr Ser Leu Asn
275      280      285
Trp Ile Met Pro Met Val Lys Ile Ala Gly Gly Val Val Leu Ile Leu
290      295      300
Phe Ala Thr Val Leu Phe Leu Thr Val Ile Pro Val Ser Ala Gly Gly
305      310      315      320
Asp Tyr Ile Ala Ala Gly Cys
325

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<210> 8816

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 8816

```

Gly Leu Met Met Asn Ile Lys Ala Thr Ile Glu Arg Ile Pro Gly Gly
1      5      10      15
Met Met Leu Val Pro Leu Val Leu Gly Ala Ile Leu Asn Thr Leu Ala
20      25      30
Pro Asn Thr Gly Ala Tyr Phe Gly Gly Phe Thr Lys Gly Met Ile Thr
35      40      45

```

Gly Thr Val Pro Ile Leu Ala Val Trp Phe Phe Cys Ile Gly Ala Ser
 50 55 60
 Ile Asn Leu Arg Ala Thr Gly Thr Val Leu Arg Lys Ser Gly Thr Leu
 65 70 75 80
 Val Ile Thr Lys Ile Ala Val Ala Trp Val Val Ala Met Ile Cys Ala
 85 90 95
 Met Phe Ile Pro Glu Asn Gly Ile Gln Thr Gly Phe Phe Ala Gly Leu
 100 105 110
 Ser Val Leu Ala Ile Val Ser Ala Met Asp Met Thr Asn Gly Gly Leu
 115 120 125
 Tyr Ala Ser Leu Met Asn Gln Tyr Gly Thr Lys Glu Ser Gly Ala
 130 135 140
 Phe Val Leu Met Ser Leu Glu Ser Gly Pro Leu Met Thr Met Leu Ile
 145 150 155 160
 Leu Gly Ser Ala Gly Leu Ala Ser Phe Glu Leu His His Phe Val Gly
 165 170 175
 Ala Ile Leu Pro Phe Leu Ile Gly Phe Ala Leu Gly Asn Leu Asp His
 180 185 190
 Asp Leu Arg Asp Phe Phe Ser Lys Ala Thr Pro Val Leu Ile Pro Phe
 195 200 205
 Phe Gly Phe Ala Leu Gly Asn Thr Ile Asn Leu Asn Val Ile Leu Glu
 210 215 220
 Thr Gly Leu Leu Gly Ile Val Leu Gly Val Ala Val Ile Val Ile Thr
 225 230 235 240
 Gly Ile Pro Leu Ile Ile Ala Asp Arg Val Ile Gly Gly Gly Asn Gly
 245 250 255
 Thr Ala Gly Val Ala Ala Ser Ser Ala Ala Gly Ala Ala Val Ala Asn
 260 265 270
 Pro Val Ile Ile Ala Gln Ile Asn Pro Ala Phe Glu Pro Val Ala Ala
 275 280 285
 Ser Ala Thr Ala Leu Val Ala Ala Ser Val Ile Val Thr Ala Ile Leu
 290 295 300
 Val Pro Ile Ile Thr Ala Leu Tyr Ala Arg Arg Phe Gly His Val Pro
 305 310 315 320
 Glu Ser Arg Thr Glu His Glu Ala Val Glu Met His His
 325 330

<210> 8817

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 8817

Val Arg Glu Lys Glu Leu Ile Val Pro Pro Gly Asp Ala Ser Leu Thr
 1 5 10 15
 Gly Arg Ser Gly Thr Thr Leu Asn Gly Leu Phe Leu Arg Glu Val Lys
 20 25 30
 Ile Met Pro Leu Ser Pro Tyr Ile Ser Phe Ala Gly Asn Cys Ala Glu
 35 40 45
 Ala Thr Ala Phe Tyr Gln Gln Ala Val Gly Ala Glu Leu Leu Tyr Lys
 50 55 60
 Ile Thr Phe Gly Glu Met Pro Lys Asp Glu Asn Ser Glu Glu Gly Cys
 65 70 75 80
 Pro Ser Gly Met Asn Phe Pro Asp Thr Ala Ile Ala His Ser Asn Val
 85 90 95
 Arg Ile Ala Gly Ser Asp Ile Met Met Ser Asp Gly Leu Pro Pro Gly
 100 105 110
 Ser Ser Thr Gln Tyr Ala Gly Phe Thr Leu Val Leu Asp Thr Gln Asp
 115 120 125
 Val Asp Glu Gly Lys Arg Trp Phe Asp Asn Leu Ser Asp Gly Gly Asn
 130 135 140

Val Glu Met Ala Trp Gln Glu Thr Phe Trp Ala His Gly Phe Gly Lys
 145 150 155 160
 Val Thr Asp Lys Tyr Gly Val Pro Trp Met Ile Asn Val Val Lys Ser
 165 170 175

<210> 8818

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 8818

Arg Gly Met Glu Met Ser Tyr Lys Thr Val Ala Ala Leu Ala Phe Thr
 1 5 10 15
 Ser Met Phe Ser Ile Ser Thr Leu Leu Ser Pro Ala His Ala Glu Glu
 20 25 30
 Gln Glu Lys Ala Leu Asn Phe Gly Ile Ile Ser Thr Glu Ser Gln Gln
 35 40 45
 Asn Leu Lys Pro Gln Trp Glu Pro Phe Leu Lys Asp Met Glu Thr Lys
 50 55 60
 Leu Gly Ile Lys Val Asn Ala Phe Phe Ala Pro Asp Tyr Ala Gly Ile
 65 70 75 80
 Ile Gln Gly Met Arg Phe Asn Lys Val Asp Ile Ala Trp Tyr Gly Asn
 85 90 95
 Leu Ser Ala Met Glu Ala Val Asp Arg Ala Asn Gly Gln Val Phe Ala
 100 105 110
 Gln Thr Val Ala Ala Asp Gly Ser Pro Gly Tyr Trp Ser Val Leu Ile
 115 120 125
 Val Asn Lys Asp Ser Pro Ile Asn Asn Leu Asn Asp Met Leu Ala Lys
 130 135 140
 Arg Lys Glu Leu Thr Phe Gly Asn Gly Asp Pro Asn Ser Thr Ser Gly
 145 150 155 160
 Phe Leu Val Pro Gly Tyr Tyr Val Phe Ala Lys Asn Asn Val Ser Ala
 165 170 175
 Ser Asp Phe Lys Arg Thr Val Asn Ala Ser His Glu Thr Asn Ala Leu
 180 185 190
 Ala Val Ala Asn Lys Gln Val Asp Val Ala Thr Asn Asn Thr Glu Asn
 195 200 205
 Leu Asp Lys Leu Lys Thr Ser Ala Pro Asp Lys Leu Lys Glu Ile Lys
 210 215 220
 Val Ile Trp Lys Ser Pro Leu Ile Pro Gly Asp Pro Ile Val Trp Arg
 225 230 235 240
 Lys Asn Leu Ser Glu Asn Thr Lys Asp Lys Val Tyr Asp Phe Phe Met
 245 250 255
 Asn Tyr Gly Lys Thr Pro Glu Glu Lys Ala Val Leu Ala Arg Leu Gly
 260 265 270
 Trp Ala Pro Phe Arg Ala Ser Ser Asp Leu Gln Leu Val Pro Ile Arg
 275 280 285
 Gln Leu Ala Leu Phe Lys Gln Met Gln Gly Val Lys Asp Asn Lys Gly
 290 295 300
 Leu Lys Asp Glu Glu Lys Thr Ser Lys Val Ser Glu Ile Gln Ala Gln
 305 310 315 320
 Leu Asp Asp Leu Asp Arg Leu Thr Ala Ala Leu Gly Ala Met Thr Ser
 325 330 335
 Val Asn Lys Ala Val Gln
 340

<210> 8819

<211> 223

<212> PRT

<213> *Enterobacter cloacae*

<400> 8819

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Pro Arg Arg Thr Pro Cys Arg Ala Ser Gly Arg Ser Lys Tyr Gln Pro
1      5      10      15
Gly Arg Leu Leu Tyr Ala Arg Ser Arg Arg Gln Arg Met Thr Leu Gln
      20      25      30
Pro Ala Phe Thr Leu Ala Val Gln Asp Ala Gln Gln Ser Phe Arg Arg
      35      40      45
Leu Leu Lys Ala Met Ser Glu Pro Gly Val Ile Val Ser Leu His Gln
      50      55      60
Leu Ser Gln Gly Trp Leu Pro Leu Asn Leu Ala Ser Thr Ser Val Leu
65      70      75      80
Leu Thr Leu Ala Asp Asn Asp Thr Pro Val Trp Leu Ser Gly Ala Leu
      85      90      95
Leu Asn Asp Ile Ala Ser Gln Asn Leu Arg Phe His Thr Asn Ala Pro
      100      105      110
Leu Val Glu Gln Pro Gln Gln Ala Val Phe Ala Val Ala Asp Glu Gln
      115      120      125
Ile Ser His Glu Gln Leu Asn Ala Leu Ser Glu Gly Ser Ala Val Ala
      130      135      140
Pro Glu Thr Ser Ala Thr Leu Ile Leu Gln Val Ser Ser Leu Ser Gly
145      150      155      160
Gly Arg Met Leu Arg Leu Thr Gly Ala Gly Ile Ala Asp Glu Arg Met
      165      170      175
Val Ala Pro Gln Leu Pro Glu Cys Ile Ile His Glu Leu Thr Glu Arg
      180      185      190
Pro His Pro Phe Pro Leu Gly Ile Asp Leu Ile Leu Thr Cys Gly Glu
      195      200      205
Arg Leu Leu Ala Ile Pro Arg Thr Thr His Val Glu Val Cys
210      215      220

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<210> 8820

<211> 290

<212> PRT

<213> *Enterobacter cloacae*

<400> 8820

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Asn Ala Cys Asn Gly Ser Ala Pro Met Ala Asn Leu Ser Gly Tyr Asn
1      5      10      15
Phe Ala Tyr Leu Asp Glu Gln Thr Lys Arg Met Ile Arg Arg Ala Ile
      20      25      30
Leu Lys Ala Val Ala Ile Pro Gly Tyr Gln Val Pro Phe Gly Gly Arg
      35      40      45
Glu Met Pro Met Pro Tyr Gly Trp Gly Thr Gly Gly Ile Gln Ile Thr
      50      55      60
Ala Ser Val Ile Gly Glu Ala Asp Val Leu Lys Val Ile Asp Gln Gly
65      70      75      80
Ala Asp Asp Thr Thr Asn Ala Val Ser Ile Arg Asn Phe Phe Lys Arg
      85      90      95
Val Thr Gly Val Asn Thr Thr Glu Lys Thr Glu Asp Ala Thr Leu Ile
      100      105      110
Gln Thr Arg His Arg Ile Pro Glu Thr Pro Leu Thr Glu Asp Gln Ile
      115      120      125
Leu Ile Phe Gln Val Pro Ile Pro Glu Pro Leu Arg Phe Ile Glu Pro
      130      135      140
Arg Glu Thr Glu Thr Arg Thr Met His Ala Leu Glu Glu Tyr Gly Ile
145      150      155      160
Met Gln Val Lys Leu Tyr Glu Asp Ile Ala Arg Phe Gly His Ile Ala
      165      170      175
Thr Thr Tyr Ala Tyr Pro Val Lys Val Asn Gly Arg Tyr Val Met Asp

```


180 185 190
 Pro Ser Pro Ile Pro Lys Phe Asp Asn Pro Lys Met Asp Met Met Pro
 195 200 205
 Ala Leu Gln Leu Phe Gly Ala Gly Arg Glu Lys Arg Ile Tyr Ala Val
 210 215 220
 Pro Pro Tyr Thr Arg Val Glu Ser Leu Asp Phe Asp Asp His Pro Phe
 225 230 235 240
 Thr Val Gln Glu Trp Asp Glu Pro Cys Ala Ile Cys Gly Ser Lys His
 245 250 255
 Ser Tyr Leu Asp Glu Val Val Leu Asp Asp Thr Gly Lys Arg Met Phe
 260 265 270
 Val Cys Ser Asp Thr Asp Tyr Cys Arg Gln Gln Ser Glu Ala Asn Ser
 275 280 285
 Gln
 290

<210> 8821

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 8821

Asp Cys Arg Arg Gln Thr Gly Arg Pro Gly Ala Gly Ala Pro Gln Gly
 1 5 10 15
 Arg Ala Arg Ser Tyr Arg Pro Arg Leu Ala Ser Gly Lys Lys Gly Val
 20 25 30
 Leu Met Gly Arg Leu Ile Trp Leu Met Gly Pro Ser Gly Ser Gly Lys
 35 40 45
 Asp Ser Leu Leu Ser Ala Leu Arg Gln Arg Glu His Ser Gln Leu Leu
 50 55 60
 Val Ala His Arg Tyr Ile Thr Arg Ala Ala Asn Ala Gly Ser Glu Asn
 65 70 75 80
 His Ile Ala Leu Ser Glu Gln Glu Phe Phe Thr Arg Thr Gly Gln Asn
 85 90 95
 Leu Leu Ala Leu Ser Trp His Ala Asn Gly Tyr Tyr Tyr Gly Val Gly
 100 105 110
 Ile Glu Ile Asp Leu Trp Leu His Ala Gly Phe Asp Val Leu Val Asn
 115 120 125
 Gly Ser Arg Ala His Leu Pro Gln Ala Arg Ala Arg Tyr Glu Ala Ala
 130 135 140
 Leu Leu Pro Val Cys Leu Gln Val Ser Pro Asp Val Leu Arg Ser Arg
 145 150 155 160
 Leu Gln Lys Arg Gly Arg Glu Asn Ala Arg Glu Ile Asp Gln Arg Leu
 165 170 175
 Glu Arg Ala Ala Arg Tyr Thr Pro Ser Gly Cys His Leu Leu Asn Asn
 180 185 190
 Asp Gly Ser Leu Leu Gln Ser Val Glu Thr Phe Leu Ser Leu Ile Arg
 195 200 205
 Gln Lys Glu Lys Gln His Ala
 210 215

<210> 8822

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 8822

Thr Ala Arg Ala Arg His Leu Ser Gly Lys His His Asp Ala Gly Asn
 1 5 10 15
 Arg Arg Glu Arg His Thr Ser Ser Gly Gly Val Ile Met Thr Thr Pro
 20 25 30

Thr His Pro Gln Gln Val Ala Lys Ser Ala Ser Ala Lys Lys Met Leu
 35 40 45
 Met Ser Asp Leu Met Gln Thr Ile Gly Ile Leu Pro Ile Leu Ile Leu
 50 55 60
 Ile Val Ala Val Phe Gly Phe Ile Ala Pro Asn Phe Phe Thr Glu Ser
 65 70 75 80
 Asn Leu Leu Asn Ile Thr Arg Gln Ala Ser Ile Asn Ile Val Leu Ala
 85 90 95
 Ala Gly Met Thr Phe Ile Ile Leu Thr Gly Gly Ile Asp Leu Ser Val
 100 105 110
 Gly Ser Ile Leu Gly Thr Thr Ala Val Ala Ala Met Val Val Ser Leu
 115 120 125
 Ile Pro Glu Phe Ala Met Leu Ser Ile Pro Ala Ala Leu Met Leu Gly
 130 135 140
 Met Val Leu Gly Leu Phe Asn Gly Ala Leu Val Ala Phe Ala Gly Leu
 145 150 155 160
 Pro Pro Phe Ile Val Thr Leu Gly Thr Tyr Thr Ala Leu Arg Gly Ala
 165 170 175
 Ala Tyr Leu Leu Ala Asp Gly Thr Thr Val Ile Asn Ser Asn Ile Asn
 180 185 190
 Phe Glu Trp Ile Gly Asn Asn Tyr Leu Gly Pro Ile Pro Trp Leu Val
 195 200 205
 Val Ile Ala Leu Ala Val Ile Val Val Cys Trp Phe Ile Leu Arg Arg
 210 215 220
 Thr Thr Leu Gly Val His Ile Tyr Ala Val Gly Gly Asn Met Gln Ala
 225 230 235 240
 Ala Arg Leu Thr Gly Ile Lys Val Trp Leu Val Leu Phe Val Tyr
 245 250 255
 Gly Met Ser Gly Leu Leu Ser Gly Leu Gly Gly Val Met Ser Ala Ser
 260 265 270
 Arg Leu Tyr Ser Ala Asn Gly Asn Leu Gly Thr Gly Tyr Glu Leu Asp
 275 280 285
 Ala Ile Ala Ala Val Ile Leu Gly Gly Thr Ser Phe Val Gly Gly Ile
 290 295 300
 Gly Thr Ile Thr Gly Thr Leu Val Gly Ala Leu Ile Ile Ala Thr Leu
 305 310 315 320
 Asn Asn Gly Met Thr Leu Met Gly Val Ser Tyr Phe Trp Gln Leu Val
 325 330 335
 Ile Lys Gly Ala Val Ile Ile Ile Ala Val Leu Ile Asp Lys Tyr Arg
 340 345 350
 Thr Arg His His Gln Ser Ala
 355 360

<210> 8823

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 8823

Met Met Pro Leu Ile Ser Leu Ala Asp Gly Leu Ala His Ala Arg Glu
 1 5 10 15
 His Arg Tyr Ala Leu Gly Ala Phe Asn Val Leu Asp Ser His Phe Leu
 20 25 30
 Arg Ala Leu Phe Ala Ala Ala Lys Gln Glu Arg Ser Pro Phe Ile Ile
 35 40 45
 Asn Ile Ala Glu Val His Phe Lys Tyr Val Ser Leu Glu Ser Leu Val
 50 55 60
 Glu Ala Val Lys Phe Glu Ala Ala Arg His Asp Ile Pro Val Val Leu
 65 70 75 80
 Asn Leu Asp His Gly Leu His Phe Glu Ala Val Val Arg Ala Leu Arg
 85 90 95

Leu Gly Phe Ser Ser Val Met Phe Asp Gly Ser Thr Leu Ser Tyr Glu
 100 105 110
 Glu Asn Ile Arg Gln Thr Arg Glu Val Val Lys Met Cys His Ala Val
 115 120 125
 Gly Val Ser Val Glu Ala Glu Leu Gly Ala Val Gly Gly Asp Glu Gly
 130 135 140
 Gly Ala Leu Tyr Gly His Ala Asp Glu Ala Phe Phe Thr Asp Pro Gln
 145 150 155 160
 Leu Ala Arg Glu Phe Val Asp Leu Thr Gly Ile Asp Ala Leu Ala Val
 165 170 175
 Ala Ile Gly Asn Ala His Gly Lys Tyr Lys Gly Glu Pro Lys Leu Asp
 180 185 190
 Phe Pro Arg Leu Asp Ala Ile Arg Gln Gln Thr Gly Leu Pro Leu Val
 195 200 205
 Leu His Gly Gly Ser Gly Ile Ser Asp Thr Asp Phe Arg Arg Ala Ile
 210 215 220
 Glu Leu Gly Ile His Lys Ile Asn Phe Tyr Thr Gly Met Ser Gln Ala
 225 230 235 240
 Ala Leu Ala Ala Val Glu Gln Arg Met Ala Asn Arg Gln Pro Leu Tyr
 245 250 255
 Asp Glu Phe Ala Glu Leu Leu Leu Gly Ile Glu Glu Ala Ile Thr Asp
 260 265 270
 Thr Val Ala Glu Gln Met Arg Ile Phe Gly Ser Ala Gly Gln Ala
 275 280 285

<210> 8824

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 8824

Glu Ser Met Lys Ile Leu Phe Leu Met Leu Phe Leu Thr Ala Phe
 1 5 10 15
 Ala His Ala Asp Glu Ile Gly Ser Gln Tyr Lys Lys Gln Ala Glu Ala
 20 25 30
 Gly Asp Ala Arg Ala Gln Tyr Tyr Leu Ala Asp Thr Trp Phe Ser Ser
 35 40 45
 Gly Asp Ser Ala Gln Ala Ala Leu Trp Ala Glu Lys Ala Ala Lys Gly
 50 55 60
 Gly Asp Val Asp Ala Met Ala Leu Leu Ser Gln Ile His Phe Ser Gln
 65 70 75 80
 Gly Asp Tyr Ala Gln Ala Lys Ala Leu Ala Gln Gln Ala Asn Ile Ala
 85 90 95
 Gly Ser Lys Arg Gly Ala Ile Met Leu Ala Arg Val Leu Val Asn Thr
 100 105 110
 Gln Ala Gly Lys Thr Asp Tyr Pro Gln Ala Ile Ala Leu Leu Gln Ser
 115 120 125
 Ala Thr Glu Asp Ile Asp Ser Asp Ser Ala Val Asp Ala Gln Gln Leu
 130 135 140
 Leu Gly Leu Ile Tyr Ala Asn Gly Val Glu Val Pro Gln Asp Asp Val
 145 150 155 160
 Gln Ala Ala

<210> 8825

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 8825

Trp Phe Lys Arg Ser Ser Ala Leu Ser Arg Thr Gly Tyr Ala Glu Tyr

```

1           5           10           15
Trp Ala Gly Met Leu Phe Arg Gln Gly Glu Lys Gly Phe Ile Thr Pro
                20           25           30
Asn Lys Gln Lys Ala Leu Tyr Trp Leu Asn Leu Ser Cys Thr Glu Gly
                35           40           45
Phe Asp Thr Gly Cys Glu Glu Phe Asp Ala Leu Ser Gly Glu
                50           55           60

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<210> 8826

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 8826

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Gln Phe Val Ser Ser Leu Ala His Leu Cys Ala Ile Phe Ile Lys Gln
1           5           10           15
Tyr His Arg Gln Lys Trp Gly Phe Ala Leu Tyr Ser Leu Pro Phe Ser
                20           25           30
Ala His Cys Arg His Leu Ala Gly Val Phe Gln Arg Val Asn Thr Phe
                35           40           45
Glu Asp Thr His Met Gln Leu Pro His Cys Pro Lys Cys Asn Ser Glu
                50           55           60
Tyr Thr Tyr Glu Asp Asn Gly Met Phe Val Cys Pro Glu Cys Ala His
                65           70           75           80
Glu Trp Asn Asp Ala Glu Pro Ala Gln Asp Ser Asp Ala Leu Ile Val
                85           90           95
Lys Asp Ala Asn Gly Asn Leu Leu Ala Asn Gly Asp Ser Val Thr Val
                100           105           110
Val Lys Asp Leu Lys Val Lys Gly Ser Ser Ser Met Leu Lys Ile Gly
                115           120           125
Thr Lys Val Lys Asn Ile Arg Leu Val Glu Gly Asp His Asn Ile Asp
                130           135           140
Cys Lys Ile Asp Gly Phe Gly Pro Met Lys Leu Lys Ser Glu Phe Val
                145           150           155           160
Lys Lys Asn

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<210> 8827

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 8827

```

Ala Leu His Leu Arg Ser Glu Ala Leu Ile Gly Met His Leu Ser Arg
1           5           10           15
His Pro Thr Ser Tyr Pro Thr Arg Trp Gln Glu Ile Ala Ala Lys Leu
                20           25           30
Glu Val Glu Leu Arg Thr His Tyr Arg Cys Gly Asp Tyr Leu Pro Ala
                35           40           45
Glu Gln Gln Leu Ala Asp Arg Tyr Glu Val Asn Arg His Thr Leu Arg
                50           55           60
Arg Ala Ile Asp Gln Leu Val Glu Arg Gly Trp Val Gln Arg Arg Gln
                65           70           75           80
Gly Val Gly Val Leu Val Leu Met Arg Pro Phe Asp Tyr Pro Leu Asn
                85           90           95
Ala Gln Ala Arg Phe Ser Gln Asn Leu Leu Asp Gln Gly Ser His Pro
                100           105           110
Thr Ser Glu Lys Leu Leu Ser Val Leu Arg Pro Ala Ser Arg His Val
                115           120           125
Ala Asp Ala Leu Gly Ile Gln Glu Gly Asp Asn Val Val His Leu Arg
                130           135           140

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Thr Leu Arg Arg Val Asn Gly Val Ala Val Cys Gln Ile Asp His Tyr
145                      150          155          160
Phe Ala Asp Leu Thr Leu Trp Pro Val Leu Gln His Phe Ala Ser Gly
                      165          170          175
Ser Leu His Asp Phe Leu Gln Asp Ala Thr Gly Ile Val Leu Lys Arg
                      180          185          190
Thr Gln Thr Arg Ile Ser Ala Arg Arg Ala Gln Ala Lys Glu Ser Lys
                      195          200          205
Val Leu Glu Ile Pro Asn Met Ala Pro Leu Leu Cys Val Arg Thr Leu
210                      215          220
Asn His Arg Asp Gly Asp Val Asn Ala Thr Glu Tyr Ser Val Ser Leu
225                      230          235          240
Thr Arg Ala Asp Met Ile Glu Phe Thr Met Glu His
                      245          250

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<210> 8828

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 8828

```

Met His Phe Asp Thr Ser Thr Arg Gln Arg Trp Met Arg Val Leu Ala
1                      5          10          15
His Ser Gln Pro Ala Ala Leu Ala Ala Arg Met Asn Ala Leu Gly Leu
                      20          25          30
Thr Pro Asp Tyr Asp Thr Ile Arg Ala Pro Glu Ile Gly Leu Val Gln
35                      40          45
Ile Gln Ala Arg Met Gly Gly Thr Gly Glu Arg Phe Phe Ala Gly Asp
50                      55          60
Ala Thr Leu Thr Arg Ala Val Ile Arg Leu Lys Ser Gly Thr Leu Gly
65                      70          75          80
Tyr Gly Tyr Val Leu Gly Arg Asp Lys Thr His Ala Glu Arg Cys Ala
85                      90          95
Ala Ile Asp Ala Leu Leu Gln Glu Gln Pro His Phe Gln Thr Leu Met
100                      105          110
Glu Thr Leu Ile Ala Pro Leu Glu Ala Asp Arg Ala Ala Arg Leu Ala
115                      120          125
Ala Arg Gln Ala Glu Val Asn Thr Ser Arg Val Asp Phe Phe Thr Leu
130                      135          140
Val Arg Gly Asp Asn Ala
145                      150

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<210> 8829

<211> 422

<212> PRT

<213> Enterobacter cloacae

<400> 8829

```

Lys Gln Arg Ser Gly Asp Arg Thr Asp Arg Thr Gly Gln Ser Ala Arg
1                      5          10          15
Arg Gly Asp Arg Arg Asp Leu Pro Arg Arg Arg Thr Pro Ser Arg
20                      25          30
Gly Gly Gln Thr Ala Pro Asp Gly Asp Lys Arg Met Ile Ile Asn Asn
35                      40          45
Val Arg Leu Val Leu Glu Asn Glu Val Val Asn Gly Ser Val Glu Val
50                      55          60
Arg Asp Gly Val Ile Arg Ala Phe Ala Glu Thr Gln Ser Arg Ser Pro
65                      70          75          80
Asp Ala Met Asp Gly Glu Gly Gly Trp Leu Leu Pro Gly Leu Ile Glu
85                      90          95
Leu His Thr Asp Asn Leu Asp Lys Phe Phe Thr Pro Arg Pro Lys Val

```

```

      100                      105                      110
Asp Trp Pro Ala His Ser Ala Met Ser Ser His Asp Ala Leu Met Val
      115                      120                      125
Ala Ser Gly Ile Thr Thr Val Leu Asp Ala Val Ala Ile Gly Asp Val
      130                      135                      140
Arg Asp Gly Gly Asp Arg Leu Glu Asn Leu Glu Lys Met Ile Lys Ala
      145                      150                      155                      160
Val Glu Glu Thr Gln Lys Arg Gly Leu Asn Arg Ala Glu His Arg Leu
      165                      170                      175
His Leu Arg Cys Glu Leu Pro His His Thr Thr Leu Pro Leu Phe Glu
      180                      185                      190
Lys Leu Val Gly Arg Glu Pro Val Ser Leu Val Ser Leu Met Asp His
      195                      200                      205
Ser Pro Gly Gln Arg Gln Phe Ala Asn Ile Glu Lys Tyr Arg Glu Tyr
      210                      215                      220
Tyr Gln Gly Lys Tyr Ser Leu Ser Asp Ala Glu Met Ala Arg Tyr Glu
      225                      230                      235                      240
Glu Glu Gln Leu Ala Leu Ala Ala Gln Trp Ser Gln Pro Asn Arg Leu
      245                      250                      255
Ser Ile Ala Ala Met Cys Arg Asp Arg Asn Ile Ala Leu Ala Ser His
      260                      265                      270
Asp Asp Ala Thr His Asp His Val Arg Glu Ser His Gln Leu Gly Ser
      275                      280                      285
Val Ile Ala Glu Phe Pro Thr Thr Phe Glu Ala Ala Glu Ala Ser Arg
      290                      295                      300
Lys His Gly Met Asn Val Leu Met Gly Ala Pro Asn Ile Val Arg Gly
      305                      310                      315                      320
Gly Ser His Ser Gly Asn Val Ala Ala Ser Lys Leu Ala Ser Leu Gly
      325                      330                      335
Leu Leu Asp Ile Leu Ser Ser Asp Tyr Tyr Pro Ala Ser Leu Leu Asp
      340                      345                      350
Ala Ala Phe Arg Val Ala Asp Asp Glu Gly Asn Ser Phe Thr Leu Pro
      355                      360                      365
Gln Ala Ile Arg Leu Val Thr Lys Asn Pro Ala Ser Ala Leu Asn Leu
      370                      375                      380
His Asp Arg Gly Glu Ile Ala Glu Gly Lys Arg Ala Asp Leu Val Leu
      385                      390                      395                      400
Ala His Arg Lys Gly Glu His Val His Ile Asp His Val Trp Arg Gln
      405                      410                      415
Gly Lys Arg Val Phe
      420

```

<210> 8830

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 8830

```

Ala Gly Met Pro Thr Val Thr Thr Met Ala Ser Ala Ser Arg Ser Thr
1                      5                      10                      15
Ser Gly Cys Thr Arg Ala Leu Thr Cys Trp Ser Thr Ala Arg Gly Arg
      20                      25                      30
Ile Ser Arg Arg Leu Ala Pro Gly Thr Lys Arg Arg Cys Ser Arg Ser
      35                      40                      45
Val Cys Arg Phe Pro Arg Thr Phe Cys Val Ala Gly Cys Lys Ser Gly
      50                      55                      60
Gly Ala Lys Thr Arg Ala Arg Ser Thr Ser Gly Trp Asn Gly Arg Arg
      65                      70                      75                      80
Val Thr Pro Arg Arg Val Ala Ile Ser Ser Ile Thr Thr Glu Val Cys
      85                      90                      95
Tyr Ser Gln Ser Arg Pro Phe Tyr Pro Leu Ser Ala Arg Arg Arg Asn

```

```
<210> 8831
<211> 256
<212> PRT
<213> Enterobacter cloacae
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400> E831															
Arg Gly Val Met Ser Leu Thr Ile Thr Leu Thr Gly Thr Gly Ala															
1 Gln Leu Val Pro Val Phe Gly Cys Asp Cys Ala Ala Cys Arg Arg Ala				5				10						15	
Arg Leu Gln Glu Asn Tyr Arg Arg Arg Pro Cys Ser Ala Ala Val Lys				20				25					30		
Phe Asn Asp Ala Val Thr Leu Leu Asp Ala Gly Ile Pro His Leu Met				35			40					45			
Asp Asp Trp Pro Ala Gly Ser Phe Arg Gln Phe Leu Leu Thr His Thr				50			55				60				
65 His Met Asp His Val Gln Gly Leu Phe Pro Leu Arg Trp Gly Val Gly				70						75				80	
Ala Thr Ile Pro Val Tyr Gly Pro Pro Asp Asp Ala Gly Cys Asp Asp				85				90						95	
Leu Leu Lys His Pro Gly Leu Leu Asp Phe Ser His Thr Val Glu Pro				100				105					110		
Phe Val Thr Phe Glu Leu Gln Gly Leu Arg Val Thr Pro Leu Pro Leu				115			120					125			
Asn His Ser Lys Leu Thr Phe Gly Tyr Leu Leu Glu Ser Ala His Ser				130			135				140				
145 Arg Val Ala Trp Leu Ser Asp Thr Ala Gly Leu Pro Asp Lys Thr Val				150						155				160	
Thr Phe Leu Leu Asn Asn Gln Pro Gln Ala Met Ile Val Asp Cys Ser				165				170					175		
His Glu Pro Arg Pro Glu Thr Pro Arg Asn His Cys Asp Leu Asn Thr				180				185					190		
Val Val Ala Leu Asn Glu Val Ile Gly Cys Pro Gln Val Ile Leu Thr				195			200				205				
His Ile Ser His Gln Phe Asp Val Trp Met Met Asp Asn Pro Leu Pro				210			215				220				
225 Ser Gly Ile Glu Ala Gly Tyr Asp Gly Met Val Met Val Leu Asp				230						235					240
				245						250				255	

<210> 8832

<211> 516

<212> PRT

<213> *Enterobacter cloacae*

<400> 8832

Ser Ala Asp Ile Asp Ile His Arg Arg Ser Ala Met Ser Arg Thr Pro
 1 5 10 15
 Val Leu Glu Met Arg His Ile Ala Lys Thr Phe Gly Asn Phe His Ala
 20 25 30
 Leu Lys Gly Val Asp Leu Thr Val Phe Pro Gly Glu Ile His Ala Leu
 35 40 45
 Met Gly Glu Asn Gly Ala Gly Lys Ser Thr Leu Met Lys Ile Leu Ala
 50 55 60
 Gly Ala Tyr Thr Ala Ser Ser Gly Asp Ile Leu Ile Asp Gly Gln Pro
 65 70 75 80
 Phe His Ile Lys Gly Pro Lys Asp Ala Leu Ala Ala Gly Ile Thr Leu
 85 90 95
 Ile Tyr Gln Glu Met Gln Leu Ala Pro Asn Leu Thr Val Ala Glu Asn
 100 105 110
 Ile Phe Leu Gly Ser Glu Leu Ser Arg Gly Gly Leu Val Gln Arg Lys
 115 120 125
 Glu Met Ala Ala Gln Ala Gln Ala Val Ile Asp Arg Leu Gly Ala Gln
 130 135 140
 Phe Ser Ala Thr Asp Leu Val Met Lys Leu Thr Ile Ala Glu Gln Gln
 145 150 155 160
 Gln Val Glu Ile Ala Arg Ala Leu His Arg Asn Ser Arg Ile Leu Val
 165 170 175
 Met Asp Glu Pro Thr Ala Ala Leu Ser Ser Arg Glu Thr His Arg Leu
 180 185 190
 Phe Glu Leu Ile Leu Arg Leu Arg Asp Glu Gly Met Ala Ile Ile Tyr
 195 200 205
 Ile Ser His Arg Met Ala Glu Val Tyr Glu Leu Ser Asp Arg Val Ser
 210 215 220
 Val Leu Arg Asp Gly Gln Tyr Val Gly Ser Leu Thr Arg Asp Lys Leu
 225 230 235 240
 Asn Ala Ser Glu Leu Val Arg Met Met Val Gly Arg Pro Leu Ser Asp
 245 250 255
 Leu Phe Asn Lys Glu Arg Asp Ile Pro Leu Gly Ser Pro Arg Leu Asn
 260 265 270
 Val His His Leu Thr Asp Gly Lys Lys Val Gln Pro Cys Ser Leu Gln
 275 280 285
 Val Arg Ser Gly Glu Ile Val Gly Leu Ala Gly Leu Val Gly Ala Gly
 290 295 300
 Arg Ser Glu Leu Ala Gln Leu Ile Phe Gly Val Arg Lys Ala Thr Gly
 305 310 315 320
 Gly Met Ile Glu Val Asp Gly Glu Pro Val Val Ile His Ser Pro Arg
 325 330 335
 Ala Ala Ile Glu Asn Gly Ile Gly Phe Leu Thr Glu Asn Arg Lys Glu
 340 345 350
 Gln Gly Leu Phe Leu Glu Leu Ala Ala Gln Glu Asn Ile Thr Met Ala
 355 360 365
 Thr Leu Glu Arg Asp Ala Thr Phe Gly Trp Leu Asn Arg Lys Lys Ala
 370 375 380
 Gln Ser Ile Ser Asp Asp Ala Ile Ala Leu Leu Asn Ile Arg Val Pro
 385 390 395 400
 His Ser Gln Val Arg Ala Gly Gly Leu Ser Gly Gly Asn Gln Gln Lys
 405 410 415
 Leu Leu Ile Ser Arg Trp Val Ala Ile Gly Pro Arg Ile Leu Ile Leu
 420 425 430
 Asp Glu Pro Thr Arg Gly Val Asp Val Gly Ala Lys Ser Glu Ile Tyr

435	440	445
Arg Ile Met Asn Gln Met Ala	Arg Lys Gly Val Ala	Ile Leu Met Ile
450	455	460
Ser Ser Glu Leu Pro Glu Val Val	Gly Met Ser Asp Arg Val Tyr Val	
465	470	475
Met Arg Glu Gly Ser Ile Ala Gly	Glu Leu His Gly Arg Asp Ile Ser	480
	485	490
Gln Glu Asn Ile Met Thr Leu Ala	Thr Gly Val Asn Asp Thr His His	495
	500	505
Gln Ala Val		510
515		

<210> 8833

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 8833

Ser Thr Asn Thr Val Pro Asp Thr Ile Lys Val His Asn Asn Thr	
1	5
Leu Arg Glu Glu Tyr Ser Met Arg Leu Lys Pro Leu Val Thr Ala Leu	10
	20
Cys Ala Gly Ala Leu Leu Ala Ala Thr Pro Phe Ala Gln Ala Lys Asp	25
	35
Leu Lys Ser Ile Gly Val Thr Val Gly Asp Leu Ala Asn Pro Phe Phe	40
	50
Val Gln Ile Thr Lys Gly Ala Glu Leu Glu Ala Arg Lys Leu Ala Gly	55
65	70
Asp Asn Val Lys Val Thr Leu Val Ser Ser Gly Tyr Asp Leu Gly Gln	75
	85
Gln Val Ser Gln Ile Asp Asn Phe Ile Ala Ala Lys Val Asp Met Ile	90
	100
Ile Leu Asn Ala Ala Asp Ser Lys Gly Ile Gly Pro Ala Val Lys Arg	105
	115
Ala Lys Glu Ala Gly Ile Val Val Ala Val Asp Val Ala Ala Glu	120
	130
Gly Ala Asp Ala Thr Ile Thr Ser Asp Asn Thr Gln Ala Gly Glu Met	135
145	150
Ala Cys Lys Tyr Ile Thr Asp Arg Leu Lys Gly Lys Gly Asn Val Val	155
	165
Ile Ile Asn Gly Pro Pro Val Ser Ala Val Gln Asn Arg Val Glu Gly	170
	180
Cys Gln Thr Glu Phe Arg Arg His Pro Asp Ile Lys Val Leu Ser Asp	185
	195
Asn Gln Asn Ala Lys Gly Ser Arg Glu Gly Gly Leu Glu Val Met Thr	200
	210
Ser Leu Leu Ala Ala Asn Pro Lys Ile Asp Gly Val Phe Ala Ile Asn	215
225	230
Asp Pro Thr Ala Ile Gly Ala Asp Leu Ala Ala Lys Gln Ala Gln Arg	235
	245
Asn Glu Phe Phe Ile Val Gly Val Asp Gly Ser Pro Asp Gly Glu Glu	250
	260
Ala Leu Lys Arg Glu Asn Ser Leu Phe Val Ala Thr Pro Ala Gln Asp	265
	275
Pro Gln Val Met Ala Ala Lys Ala Val Glu Ile Gly Tyr Asp Ile Leu	280
	290
Gln Gly Lys Pro Ala Pro Lys Glu Pro Val Leu Ile Pro Val Thr Met	295
305	310
Ile Asp Lys Lys Asn Val Gly Thr Tyr Lys Gly Trp Thr Val Lys	315
	325
	330
	335

<210> 8834

<211> 272

<212> PRT

<213> *Enterobacter cloacae*

<400> 8834

Gly His Ile Tyr Arg Glu Ala Gly His Met Gln Thr Val Ile Arg Val
 1 5 10 15
 Glu Lys Leu Ser Lys Thr Phe His His Asn Lys Ala Leu His Ala Val
 20 25 30
 Asp Leu Thr Val Gln Gln Gly Glu Met Val Ala Leu Leu Gly Pro Ser
 35 40 45
 Gly Ser Gly Lys Ser Thr Leu Leu Arg His Leu Ser Gly Leu Ile Thr
 50 55 60
 Cys Asp Lys Thr Pro Glu Ser Arg Val Glu Leu Leu Gly Asn Thr Val
 65 70 75 80
 Gln His Ala Gly Arg Leu Ala Ser Asp Ile Arg Lys Ser Arg Ala Gln
 85 90 95
 Thr Gly Tyr Ile Phe Gln Gln Phe Asn Leu Val Asn Arg Leu Thr Val
 100 105 110
 Leu Glu Asn Val Leu Ile Gly Ala Leu Gly Ser Thr Pro Phe Trp Arg
 115 120 125
 Thr Cys Leu Arg Trp Phe Ser Leu Ser Gln Lys Gln Glu Ala Leu Gln
 130 135 140
 Ala Leu Thr Arg Val Gly Met Ala His Phe Ala His Gln Arg Val Ser
 145 150 155 160
 Thr Leu Ser Gly Gly Gln Gln Gln Arg Val Ala Ile Ala Arg Ala Leu
 165 170 175
 Met Gln Lys Ala Lys Ile Ile Leu Ala Asp Glu Pro Ile Ala Ser Leu
 180 185 190
 Asp Pro Glu Ser Ala Arg Ile Val Met Glu Thr Leu Arg Asp Ile Asn
 195 200 205
 Gln Asn Asp Gly Ile Thr Val Val Thr Leu His Gln Val Asp Tyr
 210 215 220
 Ala Leu Arg Tyr Cys Glu Arg Ile Val Ala Leu Arg Gln Gly His Val
 225 230 235 240
 Phe Phe Asp Gly Ala Ser His Gln Phe Asp Asn Glu Arg Phe Asp His
 245 250 255
 Leu Tyr Arg Ser Val Asn Arg Val Glu Glu Arg Ala Gln Ala Ala
 260 265 270

<210> 8835

<211> 282

<212> PRT

<213> *Enterobacter cloacae*

<400> 8835

Ser Gly Ala Val Thr Pro Phe Ser Leu Ser Leu Lys Gly Glu Gly Thr
 1 5 10 15
 Lys Pro Lys Gly Ala Asn Met Gln Thr Ile Thr Leu Pro Pro Lys
 20 25 30
 Arg Ser Trp Phe Ser Leu Ile Ser Trp Ala Val Leu Leu Ala Val Leu
 35 40 45
 Val Ile Ser Trp Lys Gly Ala Glu Met Asp Pro Leu Leu Phe Arg
 50 55 60
 Asp Ser Gly Asn Met Ala Thr Phe Ala Ala Asp Phe Phe Pro Pro Asp
 65 70 75 80
 Phe Ser Gln Trp Gln Asp Tyr Leu Val Glu Met Ala Ile Thr Leu Gln
 85 90 95
 Ile Ala Val Trp Gly Thr Ala Leu Ser Val Ile Leu Ser Ile Pro Phe
 100 105 110

Gly Leu Met Ser Ala Glu Asn Ile Val Pro Trp Trp Val Tyr Gln Pro
 115 120 125
 Met Arg Arg Leu Met Asp Ala Cys Arg Ala Ile Asn Glu Met Val Phe
 130 135 140
 Ala Met Leu Phe Val Val Ala Val Gly Leu Gly Pro Phe Ala Gly Val
 145 150 155 160
 Met Ala Leu Phe Ile His Thr Thr Gly Val Leu Ser Lys Leu Leu Ser
 165 170 175
 Glu Ala Val Glu Ala Ile Glu Pro Gly Pro Val Glu Gly Ile Arg Ala
 180 185 190
 Thr Gly Ala Asn Lys Ile Glu Glu Ile Leu Tyr Gly Val Leu Pro Gln
 195 200 205
 Val Met Pro Leu Leu Ile Ser Tyr Ser Leu Tyr Arg Phe Glu Ser Asn
 210 215 220
 Val Arg Ser Ala Thr Val Val Gly Met Val Gly Ala Gly Gly Ile Gly
 225 230 235 240
 Val Thr Leu Trp Glu Ala Ile Arg Gly Phe Gln Phe Gln Gln Thr Cys
 245 250 255
 Ala Leu Met Val Leu Ile Ile Val Thr Val Ser Leu Leu Asp Phe Leu
 260 265 270
 Ser Gln Arg Leu Arg Lys His Phe Ile
 275 280

<210> 8836

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 8836

Ala Asp Arg Ala Pro Ala Ser Val Pro Ala Arg Tyr Arg Pro Asp Pro
 1 5 10 15
 Asp Leu Arg Arg Ala Pro Ala Gly Asp Pro Glu Asn His Ser Arg Gly
 20 25 30
 Gly Val Leu Met Tyr Val Ala Val Lys Gly Gly Glu Lys Ala Ile Ala
 35 40 45
 Ala Ala His Ala Leu Gln Glu His Arg Arg Arg Gly Asp Ala Leu
 50 55 60
 Pro Glu Leu Ser Val Ala Gln Ile Glu Gln Gln Leu Asn Leu Ala Val
 65 70 75 80
 Asp Arg Val Met Thr Glu Gly Gly Ile Ala Asp Arg Glu Leu Ala Ala
 85 90 95
 Leu Ala Leu Lys Gln Ala Ser Gly Asp Asn Val Glu Ala Ile Phe Leu
 100 105 110
 Leu Arg Ala Tyr Arg Thr Thr Leu Ala Lys Leu Ala Val Ser Glu Pro
 115 120 125
 Val Lys Thr Ala Glu Met Arg Leu Glu Arg Arg Ile Ser Ala Val Tyr
 130 135 140
 Lys Asp Ile Pro Gly Gly Gln Leu Leu Gly Pro Thr Tyr Asp Tyr Thr
 145 150 155 160
 His Arg Leu Leu Asp Phe Thr Leu Leu Ala Asn Gly Glu Thr Pro Gln
 165 170 175
 Leu Ser Val Ser Asp Ala Glu Gln Asp Ala Ser Pro His Val Phe Ser
 180 185 190
 Leu Leu Ala Asn Gln Gly Leu Ala Lys Ala Glu Glu Asp Thr Gly Ser
 195 200 205
 Thr Pro Asp Asp Ile Thr Arg Thr Pro Pro Val Tyr Pro Cys Ser Arg
 210 215 220
 Ser Ser Arg Leu Gln Gln Leu Met Arg Gly Asp Glu Gly Tyr Leu Leu
 225 230 235 240
 Ala Leu Ala Tyr Ser Thr Gln Arg Gly Tyr Gly Arg Asn His Pro Phe
 245 250 255

Ala Ala Glu Ile Arg Ser Gly Tyr Leu Asp Val Glu Ile Val Pro Glu
 260 265 270
 Glu Leu Gly Phe Ala Val Asn Ile Gly Glu Leu Leu Met Thr Glu Cys
 275 280 285
 Glu Met Val Asn Gly Phe Val Ala Pro Glu Asn Glu Asp Pro His Phe
 290 295 300
 Thr Arg Gly Tyr Gly Leu Val Tyr Gly Leu Ser Glu Arg Lys Ala Met
 305 310 315 320
 Ala Met Ala Leu Val Asp Arg Ala Leu Gln Ala Pro Asp Tyr Gly Glu
 325 330 335
 His Ile Ala Gly Pro Ala Gln Asp Glu Glu Phe Val Leu Ala His Ala
 340 345 350
 Asp Asn Val Glu Ala Ala Gly Phe Val Ser His Leu Lys Leu Pro His
 355 360 365
 Tyr Val Asp Phe Gln Ala Glu Leu Leu Lys Arg Leu Gln Arg
 370 375 380
 Glu Arg Ala Asn Gly
 385 390

<210> 8837

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 8837

Ser Gly Ala Gly Arg His Gly Gln Thr Asp Val Cys Leu Leu Arg His
 1 5 10 15
 Arg Leu Leu Pro Pro Thr Glu Arg Gly Glu Gln Pro Met Lys Pro Leu
 20 25 30
 Leu Ser Val Asn Asn Leu Thr His Leu Tyr Ala Pro Gly Lys Gly Phe
 35 40 45
 Ser Asp Val Ser Phe Glu Leu Trp Pro Gly Glu Val Leu Gly Ile Val
 50 55 60
 Gly Glu Ser Gly Ser Gly Lys Thr Thr Leu Leu Lys Ser Ile Ser Ala
 65 70 75 80
 Arg Leu Thr Pro Gln Asn Gly Asp Ile Leu Tyr Glu Gly Val Ser Leu
 85 90 95
 Tyr Gly Met Ser Glu Ala Glu Arg Arg Arg Leu Leu Arg Thr Glu Trp
 100 105 110
 Gly Val Val His Gln His Pro Met Asp Gly Leu Arg Arg Gln Val Ser
 115 120 125
 Ala Gly Gly Asn Ile Gly Glu Arg Leu Met Ala Thr Gly Ala Arg His
 130 135 140
 Tyr Gly Asn Ile Arg Ala Thr Ala Gln His Trp Leu Glu Glu Val Glu
 145 150 155 160
 Ile Pro Ala Ser Arg Ile Asp Asp Leu Pro Thr Thr Phe Ser Gly Gly
 165 170 175
 Met Gln Gln Arg Leu Gln Ile Ala Arg Asn Leu Val Thr His Pro Lys
 180 185 190
 Leu Val Phe Met Asp Glu Pro Thr Gly Gly Leu Asp Val Ser Val Gln
 195 200 205
 Ala Arg Leu Leu Asp Leu Leu Arg Gly Leu Val Val Glu Leu Asn Leu
 210 215 220
 Ala Val Val Ile Val Thr His Asp Leu Gly Val Ala Arg Leu Leu Ala
 225 230 235 240
 Asp Arg Leu Leu Val Met Lys Gln Gly Gln Val Val Glu Ser Gly Leu
 245 250 255
 Thr Asp Arg Val Leu Asp Asp Pro His His Pro Tyr Thr Gln Leu Leu
 260 265 270
 Val Ser Ser Val Leu Gln Asn
 275 280

<210> 8838
 <211> 230
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8838
 Glu Ala Asn Met Ile His Val Glu Asn Val Ser Lys Thr Phe Val Leu
 1 5 10 15
 His Gln Gln Asn Gly Val Arg Leu Pro Val Leu Gln Asn Ala Ser Leu
 20 25 30
 Glu Val Ser Asn Gly Glu Cys Val Val Leu His Gly His Ser Gly Ser
 35 40 45
 Gly Lys Ser Thr Leu Leu Arg Ser Leu Tyr Ala Asn Tyr Leu Pro Asp
 50 55 60
 Glu Gly His Ile His Ile Arg His Asn Asn Glu Trp Val Asp Leu Val
 65 70 75 80
 Gln Ala Pro Ala Arg Lys Val Leu Glu Val Arg Arg Ser Thr Ile Gly
 85 90 95
 Trp Val Ser Gln Phe Leu Arg Val Ile Pro Arg Ile Ser Ala Leu Asp
 100 105 110
 Val Val Met Gln Pro Leu Leu Asp Leu Gly Val Pro Arg Glu Thr Cys
 115 120 125
 Ala Ala Lys Ala Ala Ser Leu Leu Thr Arg Leu Asn Val Pro Glu Arg
 130 135 140
 Leu Trp His Leu Ala Pro Ser Thr Phe Ser Gly Gly Glu Gln Gln Arg
 145 150 155 160
 Val Asn Ile Ala Arg Gly Phe Ile Val Asp Tyr Pro Ile Leu Leu Leu
 165 170 175
 Asp Glu Pro Thr Ala Ser Leu Asp Ser Lys Asn Ser Ala Ala Val Ile
 180 185 190
 Glu Leu Ile Glu Gln Ala Lys Ala Arg Gly Ala Ala Ile Val Gly Ile
 195 200 205
 Phe His Asp Asp Ala Val Arg His Arg Val Ala Asp Arg Leu His Pro
 210 215 220
 Met Gly Thr Asn Val
 225 230

<210> 8839
 <211> 361
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8839
 Arg Gly His Tyr Arg Tyr Gly Cys Gly Thr Asp Ala His Leu Arg Gln
 1 5 10 15
 Arg Gly Ala Gly Ile Met Glu Arg Lys Gly Ile Ile Ala Ala Gly Asn
 20 25 30
 Met Leu Val Asp His Val His Gln Ile Val Gln Trp Pro Glu Arg Gly
 35 40 45
 Trp Leu Ala Glu Ile Thr His Ser Glu Arg Ser Thr Gly Gly Ala Pro
 50 55 60
 Leu Asn Val Leu Leu Thr Leu Ala Lys Met His Val Gly Leu Pro Leu
 65 70 75 80
 Gln Ala Val Gly Leu Ile Gly Glu Asp Ser Asp Gly Asp Tyr Ile Leu
 85 90 95
 Ala Met Leu Asp Gln Tyr His Val Asn Arg Gln Arg Val Gln Arg Thr
 100 105 110
 Thr Phe Ala Pro Thr Ser Met Ser Gln Val Met Thr Asp Pro Ser Gly
 115 120 125
 Gln Arg Thr Phe Phe His Ser Pro Gly Ala Asn Arg Leu Leu Asp Leu

130 135 140
 Pro Ala Phe Asp Arg Leu Asp Gly Ser Leu Lys Ile Phe His Leu Gly
 145 150 155 160
 Tyr Leu Leu Leu Leu Asp Ser Leu Asp Met Pro Asp Glu Glu Phe Gly
 165 170 175
 Thr Arg Ser Ala Arg Leu Leu Ala Gln Met Arg Asp Gln Gly Tyr Glu
 180 185 190
 Thr Ser Leu Asp Leu Val Ser Arg Lys Gly Asp Pro Arg Tyr Gln Pro
 195 200 205
 Leu Val Leu Pro Ala Leu Arg His Leu Asp Tyr Leu Val Ile Asn Glu
 210 215 220
 Leu Glu Ala Gly Glu Phe Ser Gly Leu Glu Ile Arg Asp Gly His Asp
 225 230 235 240
 Ala Leu Asn Met Ala His Ile Ala Asp Ala Ala Thr Gln Leu Leu Ala
 245 250 255
 Ala Gly Val Arg Gln Arg Val Val Ile His Cys Pro Glu Gly Ala Trp
 260 265 270
 Gly Glu Ala Pro Gly Glu Lys Gly Gln Trp Val Pro Ser Trp Lys Leu
 275 280 285
 Thr Gln Asp Glu Ile Ile Gly Ser Val Gly Ala Gly Asp Ala Phe Cys
 290 295 300
 Ala Gly Phe Leu Tyr Gly Cys His Glu Ser Leu Pro Leu Thr Glu Ser
 305 310 315 320
 Ile Tyr Leu Ala His Ala Cys Ala Arg Ala Ser Leu Leu Ala Ala Asn
 325 330 335
 Ala Ile Asp Gly Ala Lys Thr Leu Ala Glu Leu Gln Thr Phe Ile Gln
 340 345 350
 Glu Asn Gly Gln Ala Ala Phe Ser
 355 360

<210> 8840

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 8840

Glu Leu Phe Asn Trp Ser Lys Val Met Lys Lys Val Val Thr Val Cys
 1 5 10 15
 Pro Tyr Cys Ala Ser Gly Cys Lys Ile His Leu Val Val Asp Asn Gly
 20 25 30
 Lys Ile Val Arg Ala Glu Ala Ala Gln Gly Lys Thr Asn Gln Gly Thr
 35 40 45
 Leu Cys Leu Lys Gly Tyr Tyr Gly Trp Asp Phe Ile Asn Asp Thr Gln
 50 55 60
 Ile Leu Thr Pro Arg Leu Lys Thr Pro Met Ile Arg Arg Glu Arg Gly
 65 70 75 80
 Gly Lys Leu Glu Ala Val Ser Trp Asn Glu Ala Leu Asp Tyr Val Ala
 85 90 95
 Thr Arg Leu Ser Ala Ile Lys Ala Lys Tyr Gly Pro Asp Ala Ile Gln
 100 105 110
 Thr Thr Gly Ser Ser Arg Gly Thr Gly Asn Glu Thr Asn Tyr Val Met
 115 120 125
 Gln Lys Phe Ala Arg Ala Val Ile Gly Thr Asn Asn Val Asp Cys Cys
 130 135 140
 Ala Arg Val
 145

<210> 8841

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 8841

His Gly Pro Ser Val Ala Gly Leu His Gln Ser Val Gly Asn Gly Ala
 1 5 10 15
 Met Ser Asn Ala Ile Asn Glu Ile Asp Asn Thr Asp Leu Val Phe Ile
 20 25 30
 Phe Gly Tyr Asn Pro Ala Asp Ser His Pro Ile Val Ala Asn His Val
 35 40 45
 Ile Arg Ala Lys Gln Asn Gly Ala Lys Ile Ile Val Cys Asp Pro Arg
 50 55 60
 Lys Ile Glu Thr Ala Arg Ile Ala Asp Met His Ile Ala Leu Lys Asn
 65 70 75 80
 Gly Ser Asn Ile Ala Leu Leu Asn Ala Met Gly His Val Ile Ile Glu
 85 90 95
 Glu Asn Leu Tyr Asp Gln Ala Phe Val Ala Ser Arg Thr Gly Gly Phe
 100 105 110
 Glu Glu Tyr Arg Lys Ile Val Glu Gly Tyr Thr Pro Glu Ser Val Glu
 115 120 125
 Ala Ile Thr Gly Val Ser Ala Gln Glu Ile Arg Gln Ala Ala Arg Met
 130 135 140
 Tyr Ala Gly Ala Lys Thr Ala Ala Ile Leu Trp Gly Met Gly Val Thr
 145 150 155 160
 Gln Phe Tyr Gln Gly Val Glu Thr Val Arg Ser Leu Thr Ser Leu Ala
 165 170 175
 Met Leu Thr Gly Asn Leu Gly Lys Ala His Val Gly Val Asn Pro Val
 180 185 190
 Arg Gly Gln Asn Asn Val Gln Gly Ala Cys Asp Met Gly Ala Leu Pro
 195 200 205
 Asp Thr Tyr Pro Gly Tyr Gln Tyr Val Lys Phe Pro Glu Asn Arg Glu
 210 215 220
 Lys Phe Ala Lys Ala Trp Gly Val Glu Ser Leu Pro Ala His Thr Gly
 225 230 235 240
 Tyr Arg Ile Ser Glu Leu Pro His Arg Ala Ala His Gly Glu Val Arg
 245 250 255
 Ala Ala Tyr Ile Met Gly Glu Asp Pro Leu Gln Thr Asp Ala Glu Leu
 260 265 270
 Ser Ala Val Arg Lys Gly Phe Glu Asp Leu Glu Leu Val Ile Val Gln
 275 280 285
 Asp Ile Phe Met Thr Lys Thr Ala Ala Ala Asp Val Ile Leu Pro
 290 295 300
 Ser Thr Ser Trp Gly Glu His Glu Gly Val Tyr Thr Ala Ala Asp Arg
 305 310 315 320
 Gly Phe Gln Arg Phe Phe Lys Ala Val Glu Pro Lys Trp Asp Leu Lys
 325 330 335
 Thr Asp Trp Gln Ile Ile Ser Glu Ile Ala Thr Arg Met Gly Tyr Pro
 340 345 350
 Met His Tyr Asn Asn Thr Gln Glu Ile Trp Asp Glu Leu Arg His Leu
 355 360 365
 Cys Pro Asp Phe Tyr Gly Ala Thr Tyr Glu Lys Met Gly Glu Leu Gly
 370 375 380
 Tyr Ile Gln Trp Pro Cys Arg Asp Glu Ser Glu Ser Asp Gln Gly Thr
 385 390 395 400
 Ser Phe Leu Phe Lys Glu Lys Phe Asp Thr Pro Asn Gly Leu Ala Gln
 405 410 415
 Phe Phe Thr Cys Asp Trp Val Ala Pro Ile Asp Lys Leu Thr Asp Glu
 420 425 430
 Tyr Pro Met Val Leu Ser Thr Val Arg Glu Val Gly His Tyr Ser Cys
 435 440 445
 Arg Ser Met Thr Gly Asn Cys Ala Ala Leu Ala Ala Leu Ala Asp Glu
 450 455 460
 Pro Gly Tyr Ala Gln Ile Asn Thr Ala Asp Ala Glu Arg Leu Gly Ile

465					470					475				480
Glu Asp	Glu Ala	Leu Val	Trp Val	Asn Ser	Arg Lys	Gly Arg	Ile Ile							
		485						490						495
Thr Arg	Ala Gln	Val Ser	Asp Arg	Pro Asn	Lys Gly	Ala Val	Tyr Met							
		500						505						510
Thr Tyr	Gln Trp	Trp Ile	Gly Ala	Cys Asn	Glu Leu	Val Thr	Glu Asn							
		515						520						525
Leu Ser	Pro Ile	Thr Lys	Thr Pro	Glu Tyr	Lys Tyr	Cys Ala	Val Asn							
		530						535						540
Val Glu	Pro Ile	Ala Asp	Gln His	Ala Ala	Gly Gln	Tyr Val	Ile Asp							545
		545						550						555
Glu Tyr	Asn Lys	Leu Lys	Ala Arg	Leu Arg	Glu Ser	Ala Met	Gly							560
		565						570						575

<210> 8842

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 8842

1	Asp	Val	Leu	Leu	Ser	Ser	Arg	Leu	Val	Lys	Thr	Arg	Ile	Leu	Asp	Met
				5						10					15	
1	Ala	Arg	Thr	Ala	Leu	Asn	Val	Val	Gly	Asn	Ala	Leu	Ala	Val	Leu	Val
				20					25					30		
1	Ile	Ala	Lys	Trp	Glu	His	Lys	Phe	Asp	Arg	Lys	Lys	Ala	Leu	Ala	Tyr
			35					40					45			
1	Glu	Arg	Glu	Val	Leu	Gly	Arg	Phe	Asp	Lys	Thr	Ala	Asp	Gln		
		50					55					60				

<210> 8843

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 8843

Gly	His	Gln	Thr	5	Ala	Glu	Glu	Pro	Lys	Pro	Met	Pro	Ser	Arg	Pro	Pro
1										10					15	
Phe	Phe	Thr	Ser	Ala	Arg	Gly	Arg	Leu	Leu	Ile	Phe	Asn	Leu	Leu	Val	
			20					25					30			
Val	Ala	Val	Thr	Leu	Met	Val	Ser	Gly	Val	Ala	Val	Leu	Gly	Phe	Arg	
			35					40					45			
His	Ala	Ser	Gln	Ile	Gln	Glu	Gln	Val	Gln	Gln	Gln	Thr	Leu	Asp	Asp	
			50				55					60				
Met	Thr	Gly	Ser	Met	Asn	Leu	Ala	Arg	Asp	Thr	Ala	Asn	Val	Ala	Thr	
65					70					75					80	
Ala	Ala	Val	Arg	Leu	Ser	Gln	Val	Val	Gly	Ala	Leu	Glu	Tyr	Lys	Gly	
			85						90					95		
Glu	Ala	Glu	Arg	Leu	Lys	Gln	Thr	Gln	Met	Ala	Leu	Arg	His	Ser	Leu	
			100					105					110			
Glu	Gln	Leu	Ala	Asp	Ala	Pro	Leu	Ala	Gln	Gln	Glu	Pro	Ala	Leu	Val	
			115				120					125				
Thr	Arg	Ile	Ile	Arg	Arg	Ser	Asn	Glu	Leu	Gln	Gln	Ser	Val	Thr	Gly	
			130				135					140				
Met	Leu	Glu	Arg	Gly	Gln	Lys	Arg	His	Leu	Glu	Arg	Asn	Ala	Leu	Leu	
145					150					155					160	
Ser	Ala	Leu	Tyr	Gln	Ser	Gln	Ser	Tyr	Leu	Arg	His	Leu	Gln	Asp	Ile	
			165						170					175		
Asn	Arg	Arg	Tyr	Ala	Ser	Asn	Val	Pro	Asp	Ala	Arg	Gln	Leu	Ala	Glu	
			180					185					190			
Met	Asp	Arg	Leu	Ile	Val	Ala	Ala	Ile	Asp	Thr	Pro	Ser	Pro	Arg	Ala	
			195				200						205			

Thr Val Gln Gln Leu Asp Ala Val Thr Ala Met Leu Pro Ala Ser Ala
 210 215 220
 Leu Gln Pro Val Val Asn Leu Val Leu Pro Asp Phe Asn Asp Glu Leu
 225 230 235
 Arg Lys Leu Ala Pro Leu Ser Lys Gln Leu Glu Ser Asp Leu Ser
 245 250 255
 Ile Ser Trp Tyr Met Phe His Ile Lys Ala Leu Val Ala Ile Leu Asn
 260 265 270
 Arg Asp Ile Asn Gln Tyr Val Glu Gln Val Ala Gln Ala Ser Arg Leu
 275 280 285
 Arg Thr Ala Gln Ser His Gln Glu Leu Arg Ser Ile Ser Val Phe Ile
 290 295 300
 Ser Val Phe Ala Val Leu Ala Leu Ile Ile Thr Gly Cys Ala Cys Trp
 305 310 315
 Tyr Ile Tyr Arg Asn Leu Gly Ser Asn Leu Thr Ala Ile Ser Arg Ala
 325 330 335
 Met Ser Arg Leu Ala His Gly Glu Gln Asn Val Ser Val Pro Ala Leu
 340 345 350
 Gln Arg Arg Asp Glu Leu Gly Glu Leu Ala Arg Ala Phe Asn Val Phe
 355 360 365
 Ala Arg Asn Thr Ala Ser Leu Glu His Thr Thr Arg Leu Leu Lys Glu
 370 375 380
 Lys Thr Ser Gln Met Glu Val Asp Arg Ile Glu Arg Gln Gly Leu Glu
 385 390 395
 Glu Ala Leu Leu His Ser Gln Lys Met Lys Ala Val Gly Gln Leu Thr
 405 410 415
 Gly Gly Leu Ala His Asp Phe Asn Asn Leu Leu Ala Val Ile Ile Gly
 420 425 430
 Ser Leu Glu Leu Thr Asp Ser Ala Ser Pro Asp Ala Pro Arg Ile Thr
 435 440 445
 Arg Ala Leu Lys Ala Ala Glu Arg Gly Ala Met Leu Thr Gln Arg Leu
 450 455 460
 Leu Ala Phe Ser Arg Lys Gln Ser Leu Gln Pro His Ala Val Glu Met
 465 470 475
 Lys Pro Leu Leu Glu Asn Leu Ser Glu Leu Met Arg His Ser Leu Pro
 485 490 495
 Ala Thr Leu Thr Leu Asp Ile Glu Ala Gln Thr Pro Ala Trp Pro Ala
 500 505 510
 Trp Ile Asp Val Ser Gln Leu Glu Asn Ala Ile Ile Asn Leu Val Met
 515 520 525
 Asn Ala Arg Asp Ala Met Glu Gly Gln Asn Gly Val Ile Lys Ile Arg
 530 535 540
 Thr Trp Asn Gln Arg Val Thr Arg Ser Asp Gly Arg Arg Gln Asp Met
 545 550 555
 Val Ala Leu Glu Val Ile Asp His Gly Cys Gly Met Ser Gln Glu Val
 565 570 575
 Lys Ser Gln Val Phe Glu Pro Phe Phe Thr Thr Lys Gln Thr Gly Ser
 580 585 590
 Gly Ser Gly Leu Gly Leu Ser Met Val Tyr Gly Phe Val Arg Gln Ser
 595 600 605
 Gly Gly Arg Val Glu Ile Glu Ser Ala Pro Gly Gln Gly Thr Thr Val
 610 615 620
 Arg Leu Gln Leu Pro Arg Ser Thr Leu Pro Ala Phe Ser Asn Asp Ala
 625 630 635
 Ala Leu Ala Thr Thr Ala Pro Thr Glu Ser Glu Leu Leu Val Leu Val
 645 650 655
 Leu Glu Asp Glu Ala Gly Val Arg Gln Thr Leu Cys Glu Gln Leu His
 660 665 670
 Gln Leu Gly Tyr Leu Thr Leu Glu Ala Glu Asn Gly Glu Gln Ala Leu
 675 680 685
 Asn Met Leu Asp Ala Ser Pro Asp Ile Gly Met Phe Ile Ser Asp Leu

690 695 700
 Met Leu Pro Gly Gly Leu Ser Gly Ala Glu Val Ile Gly His Val Arg
 705 710 715 720
 Ser His Tyr Pro Gln Leu Pro Val Leu Leu Ile Ser Gly Gln Asp Leu
 725 730 735
 Arg Pro Ala His Asn Pro Gln Leu Pro Asp Val Gln Leu Leu Arg Lys
 740 745 750
 Pro Phe Thr Arg Ala Gln Leu Ala Gln Ala Leu Arg Lys Val Met Val
 755 760 765
 Ile
 770

<210> 8844

<211> 79

<212> PRT

<213> *Enterobacter cloacae*

<400> 8844

Met Met His Ser Gly Ser Trp Gly Ala Thr Ile Arg Ser Ser Ala Ile
 1 5 10 15
 Pro Ala Pro Val Arg Arg Ser Met Arg Pro Pro Leu Arg Leu Glu Thr
 20 25 30
 Cys Lys Ile Ser Val Ala Leu Val Ser Gly Ala Thr Ala Leu Pro Ser
 35 40 45
 Leu Arg Ala Leu Ser Cys Ser Trp Leu Ile Cys Ser Ser Ala Thr Ala
 50 55 60
 Lys Thr Ala Cys Trp Gly Cys Ser Thr Ser Gly Ala Leu Val
 65 70 75

<210> 8845

<211> 139

<212> PRT

<213> *Enterobacter cloacae*

<400> 8845

Leu Ile Ser Ile Pro Arg Tyr Gly Ser Leu Cys Ser Leu Arg Ala Leu
 1 5 10 15
 Phe Asp Ala Val Tyr Ala Ala Val Glu Met Val Lys Thr Phe Val Ile
 20 25 30
 Lys Leu Val Ala Cys Ala Ile Lys Glu His Met Ser Leu Thr Gln Gly
 35 40 45
 Asp Asp Ala Leu Ala Val Ala Gln Gly Val Ile His Leu Met Gln Arg
 50 55 60
 His His His Gly Asp Ala Val Val Leu Ile Asp Val Ala Gln Gly Phe
 65 70 75 80
 His His Asp Ala Gly Gly Leu Arg Ile Gln Arg Gly Asp Arg Phe Ile
 85 90 95
 Gly Gln Asp Asn Phe Gly Phe Leu His Gln Gly Ala Gly Asn Gly Asp
 100 105 110
 Ala Leu Leu Leu Ser Ala Gly Glu Arg Gly Asp Ala Leu Val Gly Glu
 115 120 125
 Met Arg His Ala Asp Ala Gly Gln Arg Leu
 130 135

<210> 8846

<211> 303

<212> PRT

<213> *Enterobacter cloacae*

<400> 8846

Tyr Ser Asn Leu Ile Arg Gly Arg Ala Thr Met Thr Thr Gln Leu Leu

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1           5           10           15
Asp Gly Pro Gly Arg Thr Leu Glu Cys Ile His Pro Lys Phe Met Val
20           25           30
Asp Leu Val Gln Gly Ala Asp Ala Arg His Ala Leu Leu Gly Pro
35           40           45
Gln Gln Leu Gln Phe Arg Glu Arg Leu Thr Gln Glu Ile Ile Thr Gln
50           55           60
Thr Arg Leu Arg Pro Trp Ala Met Ala Gly Met Leu Asn Glu Asn Ala
65           70           75           80
Ala Leu Arg Leu Gly Leu Ala Glu Lys Leu Ala Gly Met Leu Asp Pro
85           90           95
Gly His Leu Ala Leu Thr Arg Met Ser Asp Arg Leu Val Ala Leu Arg
100          105          110
Gln Gln Val Asn Pro Arg Leu Pro Gln Pro Pro Gly Leu Leu Gln Gln
115          120          125
Tyr Glu Glu Leu Ser Ala His Phe Asn Gln Arg Ala Ala Tyr Lys Glu
130          135          140
Lys Ala Leu Ala Gln Arg Gly Leu Thr Val Gln Ala Gly Glu His Ser
145          150          155          160
Glu Gln Ile Phe Thr Arg Trp Arg Ala Gly Gln Tyr Asp Gly Trp Ser
165          170          175
Leu Ala Gly Arg Cys Phe Ile Val Leu Glu Glu Leu Arg Trp Gly Ala
180          185          190
Phe Gly Asp Ala Cys Arg Leu Ala Asn Ser Asp Val Ala Ala Met Leu
195          200          205
Lys Asp Asn Leu Arg Ser Met Ala Ala Asn Tyr Leu Ala Gln Glu Ile
210          215          220
Asn Ala Ser Pro Thr Thr Arg His Phe Tyr His Gln Trp Leu Thr Thr
225          230          235          240
Pro Ala Ser Pro Gly Leu Ile Asp Tyr Lys Asp Met Leu Gly Trp Leu
245          250          255
Gly Asp Trp Cys Gln Ala Glu Lys His Pro Val Ser Trp Ser Val Thr
260          265          270
Gln Ser Trp Gln Thr Val Ala Leu Gly Met Pro Arg Leu Cys Ser Ala
275          280          285
Lys Arg Leu Val Asp Gly Met Val Glu Glu Ile Phe Gly Thr
290          295          300

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<210> 8847

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 8847

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Gly Asp Ser His Gly Ala Asp Leu Trp Phe Thr Ala Cys Lys Met Arg
1           5           10           15
Cys Glu Thr Asp Gly Ala Glu Ser Thr Arg Lys Ala Met Leu Arg Arg
20           25           30
Lys Lys Val Lys Pro Ile Thr Leu Arg Asp Val Thr Ile Ile Asp Asp
35           40           45
Ala Lys Leu Arg Lys Ala Ile Thr Ala Ala Ser Leu Gly Asn Ala Met
50           55           60
Glu Trp Phe Asp Phe Gly Val Tyr Gly Phe Val Ala Tyr Ala Leu Gly
65           70           75           80
Lys Val Phe Phe Pro Gly Ala Asp Pro Ser Leu Gln Met Ile Ala Ala
85           90           95
Leu Gly Thr Phe Ser Val Pro Phe Leu Ile Arg Pro Leu Gly Gly Leu
100          105          110
Phe Phe Gly Met Leu Gly Asp Lys Tyr Gly Arg Gln Lys Ile Leu Ala
115          120          125
Ile Thr Ile Val Ile Met Ser Ile Ser Thr Phe Cys Ile Gly Leu Ile

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	130						135						140					
Pro	Ser	Tyr	Ala	Thr	Ile	Gly	Ile	Trp	Ala	Pro	Ile	Leu	Leu	Leu	Ile			
145					150					155					160			
Cys	Lys	Met	Ala	Gln	Gly	Phe	Ser	Val	Gly	Gly	Glu	Tyr	Thr	Gly	Ala			
				165					170					175				
Ser	Ile	Phe	Val	Ala	Glu	Tyr	Ser	Pro	Asp	Arg	Lys	Arg	Gly	Phe	Met			
			180					185					190					
Gly	Ser	Trp	Leu	Asp	Phe	Gly	Ser	Ile	Ala	Gly	Phe	Val	Met	Gly	Ala			
			195				200					205						
Gly	Val	Val	Val	Leu	Ile	Ser	Thr	Val	Val	Gly	Glu	Glu	Asn	Phe	Leu			
			210			215					220							
Asp	Trp	Gly	Trp	Arg	Ile	Pro	Phe	Phe	Leu	Ala	Leu	Pro	Leu	Gly	Ile			
225					230					235				240				
Ile	Gly	Leu	Tyr	Leu	Arg	His	Ala	Leu	Glu	Glu	Thr	Pro	Ala	Phe	Gln			
				245					250					255				
Gln	His	Val	Glu	Lys	Leu	Glu	Gln	Gly	Asp	Arg	Glu	Gly	Leu	Gln	Asp			
			260					265				270						
Gly	Pro	Lys	Val	Ser	Phe	Lys	Glu	Ile	Ala	Thr	Lys	His	Trp	Arg	Ser			
			275				280					285						
Leu	Leu	Thr	Cys	Ile	Gly	Leu	Val	Ile	Ser	Thr	Asn	Val	Thr	Tyr	Tyr			
290					295					300								
Met	Leu	Leu	Thr	Tyr	Met	Pro	Ser	Tyr	Leu	Ser	His	Asn	Leu	His	Tyr			
305					310					315				320				
Ser	Glu	Asp	His	Gly	Val	Leu	Ile	Ile	Ile	Ala	Ile	Met	Val	Gly	Met			
				325					330					335				
Leu	Phe	Val	Gln	Pro	Ile	Met	Gly	Leu	Leu	Ser	Asp	Arg	Phe	Gly	Arg			
			340					345					350					
Lys	Pro	Phe	Ile	Ile	Leu	Gly	Ser	Val	Ala	Leu	Phe	Ala	Leu	Ala	Ile			
			355				360					365						
Pro	Ala	Phe	Ile	Leu	Ile	Asn	Ser	Asn	Val	Leu	Gly	Leu	Ile	Phe	Ala			
			370			375					380							
Gly	Leu	Leu	Met	Leu	Ala	Val	Ile	Leu	Asn	Cys	Phe	Ile	Gly	Val	Met			
385					390					395				400				
Val	Ser	Thr	Leu	Pro	Ala	Met	Phe	Pro	Thr	His	Ile	Arg	Tyr	Ser	Ala			
				405					410					415				
Leu	Ala	Ala	Ala	Phe	Asn	Ile	Ser	Val	Leu	Ile	Ala	Gly	Leu	Thr	Pro			
			420					425					430					
Thr	Leu	Ala	Ala	Ser	Leu	Val	Glu	Ser	Thr	Gln	Asn	Leu	Met	Met	Pro			
			435				440					445						
Ala	Tyr	Tyr	Leu	Met	Val	Ile	Ala	Val	Val	Gly	Leu	Ile	Thr	Gly	Ile			
450						455					460							
Thr	Met	Lys	Glu	Thr	Ala	Asn	Arg	Pro	Leu	Lys	Gly	Ala	Thr	Pro	Ala			
465					470					475				480				
Ala	Ser	Asp	Ile	Gln	Glu	Ala	Lys	Glu	Ile	Leu	Arg	Glu	His	Tyr	Asp			
				485					490									

<210> 8848

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 8848

Arg Lys His Ala Met Lys Pro Ala Ile Leu Val Val Asp Asp Asp Val
1 5 10 15
Ala Val Cys Glu Leu Leu Gln Asp Val Leu Ser Glu His Val Phe Thr

```

      20      25      30
Val Leu Thr Cys His Ser Gly Gln Asp Ala Val Asn Arg Val Gln Gln
      35      40      45
Asp Ser Gly Ile Ala Leu Val Leu Leu Asp Met Ile Leu Pro Asp Ile
      50      55      60
Asn Gly Leu Gln Val Leu Leu Gln Leu Gln Lys Gln Arg Pro Ser Leu
      65      70      75      80
Pro Val Val Met Leu Thr Gly Leu Gly Ser Glu Ser Asp Val Val Val
      85      90      95
Gly Leu Glu Met Gly Ala Asp Asp Tyr Ile Gly Lys Pro Phe Asn Pro
      100      105      110
Arg Val Val Val Ala Arg Val Lys Ala Val Leu Arg Arg Thr Gly Ala
      115      120      125
Leu Asp Ala Glu Pro Ala Ala Pro Arg Val Glu Gly Ile Ala Phe Asn
      130      135      140
Gly Trp Thr Leu Asp Thr Thr Arg Cys Glu Leu Ser Asp Pro Gln Arg
      145      150      155      160
Asn Thr Val Pro Leu Thr Gln Gly Glu Tyr Gly Leu Leu Leu Ala Leu
      165      170      175
Thr Gln Asn Ala Arg Arg Val Leu Ser Arg Glu Gln Leu Leu Lys Leu
      180      185      190
Thr His Ser Glu Ser Ala Glu Val Phe Asp Arg Thr Ile Asp Val Leu
      195      200      205
Ile Met Arg Leu Arg Arg Lys Ile Glu Val Asn Pro His Gln Pro Leu
      210      215      220
Leu Ile Lys Thr Ile Arg Gly Leu Gly Tyr Val Phe Ala Thr Asp Val
      225      230      235      240
Ser His His Glu Lys Ala Ala
      245

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<210> 8849

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 8849

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Gln Val Val Thr Ala Cys Val Val Arg Arg Thr Val Asn Arg Asn Gly
      1      5      10      15
Arg Pro His Ala Pro Ala Gln Arg Lys Gln Pro Leu Asn Val Ile His
      20      25      30
Met Ile Met Gly Lys Gln Lys Leu Pro Glu Thr Pro Arg Gly Pro Val
      35      40      45
Val His Gln Val Trp Asn Thr Arg Val Gln Gln Gly Asp Arg Ile Val
      50      55      60
Glu Phe His Arg Arg Ala Thr Gly Ala Thr Ala Ile Phe Leu
      65      70      75      80

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<210> 8850

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 8850

```

Lys Arg Val Asp Arg Cys Ala Ala Leu Gly Val Arg Phe Val Ala Ala
      1      5      10      15
Lys Tyr Val Ala Val Ala Gln Arg Ala Ala Phe Gln Ala Asp His Arg
      20      25      30
Ala Gly Glu Gly Gly Ile Ala Gly Glu Glu Ala Leu Ala Gly Ala Ala
      35      40      45
His Ala Cys Leu Asp Leu His Gln Ala Asp Leu Arg Arg Ala Asp Arg
      50      55      60

```

Val Val Ile Arg Arg Gln Ala Glu Arg Val His Ala Gly Ser Gln Arg
 65 70 75 80
 Ser Arg Leu Ala Val Gly Gln His Ala His Pro Ala Leu Thr Ser Gly
 85 90 95
 Gly Val Glu Val His Ser Val Leu His Gly Lys Phe Asn His Val Gly
 100 105 110
 Ala Gly Gln Ala Asp Gly Val Phe Arg Cys Val Asp Val Ala Val Thr
 115 120 125
 Val Val Glu Gly Ala His Ala Glu Gln Arg Gly His Val Gly Asp Leu
 130 135 140
 Gln His Leu Ala Leu Phe Arg Leu Arg Ala Ala Gly Ala Asp Ala Arg
 145 150 155 160
 Leu Gly Ala Phe Glu His Asp Thr Arg Arg Val Leu Lys Lys Ile Met
 165 170 175
 Gln Gly Thr Ala Gly Glu Met Leu Gln Asn Gly Pro Glu Gly Glu Val
 180 185 190
 Arg Glu Val Val Val Asp Leu Thr Asp Arg His Ala Val His Pro Ala
 195 200 205
 Gln Arg Ala Gln Val Asn Asp Val Val Ala Leu Leu Asn Pro Gln Arg
 210 215 220
 Val Arg His Val Ala Gly Gly Arg Ala Gln Asp Arg Gln Gln Leu Phe
 225 230 235 240
 Ala Gly Gly Val Ala Ala Leu Ile Glu Lys Val Leu Ala Lys Thr Arg
 245 250 255
 Leu Gly Ile Lys Arg Val Val Lys Arg Thr His Gln His Gln His Ala
 260 265 270
 Asp Ala Leu Thr Thr Leu Asp Pro Ala Ala Leu His Gln Leu Ile Asp
 275 280 285
 Gly Thr Thr Gln Gly Val Thr Thr Ile His Phe Val Ala Val Gly Lys Leu
 290 295 300
 Leu Leu Gly Arg Gln Val Val Ser Ala Ala Ile Val Arg Ala Gln Leu
 305 310 315 320
 His Phe Glu Leu Cys Arg Asn Leu Leu Pro Ala Gly Gly Val Thr Gly
 325 330 335
 Arg Met Ser Gly
 340

<210> 8851

<211> 790

<212> PRT

<213> Enterobacter cloacae

<400> 8851

Gly Lys Ala Phe Ile Met His Thr Gln Thr Ile Phe Glu Leu Ser Gln
 1 5 10 15
 Glu Ala Glu Arg Leu Leu Gln Leu Ala Leu Asn Asn Leu Asp Ser Leu
 20 25 30
 Lys Ser Met Pro Ile Ala Lys Leu Asp Ser Thr Thr Ala Ala Met Ser
 35 40 45
 Gly Val Asn Asn Asn Val Leu Pro Leu His Phe Ser Ala Arg Gly Val
 50 55 60
 Asp Ala Gln Gln Ala Met Leu Asn Asn Glu Leu Arg Lys Ile Thr Arg
 65 70 75 80
 Leu Glu Met Val Leu Ala Ile Val Gly Thr Met Lys Ala Gly Lys Ser
 85 90 95
 Thr Thr Ile Asn Ala Ile Val Gly Thr Glu Val Leu Pro Asn Arg Asn
 100 105 110
 Arg Pro Met Thr Ala Leu Pro Thr Leu Ile Arg His Thr Pro Gly Gln
 115 120 125
 Lys Glu Pro Val Leu His Phe Leu His Val Ser Pro Ile Asp Thr Leu
 130 135 140

Ile Thr Gln Leu Gln Lys Lys Leu Cys Asp Lys Asp Arg Gly Lys Leu
 145 150 155 160
 Ala Arg Arg Leu Glu Ile Asp Lys Asp Met Asn Thr Leu Leu Glu Arg
 165 170 175
 Ile Glu Arg Gly Glu Ala Phe Glu Lys His Leu Gly Ala Glu Pro
 180 185 190
 Ile Phe His Cys Leu Lys Ser Leu Asn Asp Leu Val Arg Leu Ser Gln
 195 200 205
 Ala Leu Gly Val Glu Phe Pro Phe Ser Glu Tyr Ala Ala Ile Glu His
 210 215 220
 Ile Pro Val Ile Glu Val Glu Phe Val His Leu Ala Gly Leu Asp Ala
 225 230 235 240
 His Leu Gly Gln Leu Thr Leu Leu Asp Thr Pro Gly Pro Asn Glu Ala
 245 250 255
 Gly Gln Pro His Leu Gln Lys Met Leu Asn Glu Gln Leu Ala Arg Ala
 260 265 270
 Ser Ala Val Leu Ala Val Met Asp Tyr Thr Gln Leu Lys Ser Ile Ser
 275 280 285
 Asp Ala Glu Val Arg Gln Ala Ile Ser Ala Ala Gly Lys Ser Val Pro
 290 295 300
 Leu Tyr Ala Leu Val Asn Lys Phe Asp Gln Lys Asp Arg Asn Ser Asp
 305 310 315 320
 Asp Glu Glu Gln Val Arg Ala Met Ile Ser Gly Thr Leu Met Lys Gly
 325 330 335
 Asn Ile Ser Pro Gly Gln Ile Tyr Pro Val Ser Ser Met Trp Ala Tyr
 340 345 350
 Leu Ala Asn Arg Ala Arg Tyr Glu Met Asn Val His Gly Arg Leu Pro
 355 360 365
 Asp His Gln Asp Gln Arg Trp Val Gln Asp Phe Ala Glu Ala Ala Leu
 370 375 380
 Gly Arg Arg Trp Arg Thr Ala Asp Leu Asp Asp Ile Asp His Ile Arg
 385 390 395 400
 His Ala Ala Asp Leu Leu Trp Glu Asp Ser Leu Phe Glu Gln Pro Ile
 405 410 415
 Arg Lys Leu Ile Tyr Ala Ala Tyr Ala Asn Ala Ser Leu Phe Ala Leu
 420 425 430
 Arg Ser Ala Ser His Lys Leu Leu Asn Tyr Ala Gln Asn Ala Arg Glu
 435 440 445
 Tyr Leu Asp Phe Arg His Gln Gly Leu Thr Val Ala Phe Asp Glu Leu
 450 455 460
 Glu Leu Asn Ile Ala Arg Leu Glu Glu Asp Met Thr Met Leu Arg Lys
 465 470 475 480
 Arg Gln Ser Val Val Ser Asp Glu Val Gln His Glu Val Glu Glu Ala
 485 490 495
 Leu Asn Ala Thr Asp Ala Phe Leu Leu Arg Gln Lys Asp Glu Leu His
 500 505 510
 Gln Ala Leu Gly Asp Ile Phe Ser Arg Pro Ser Ile Leu Asp Leu Ala
 515 520 525
 Gly Arg Glu Pro Ser Ser Leu Arg Glu Asp Asp Ala Asp Ala Ile Gln
 530 535 540
 Gln Leu Val Leu Asp Asp Glu Gly Gln Ala Gln Ile Val Leu Ser Lys
 545 550 555 560
 Ile Arg Ser Ser Cys Glu Gln Ile Met Leu Asn Ala Gln Ser Arg Ile
 565 570 575
 Gly Arg Glu Leu Ala Leu Arg Phe Asp Gln Leu Glu Ser Thr Leu Ala
 580 585 590
 Arg Ser Leu Asn Glu Ala Met Arg Pro Ile Glu Thr Arg Ile Lys Glu
 595 600 605
 Gln Leu Ser His Ala Gly Phe Arg Ala Arg Ile Ser Phe Pro Ala Phe
 610 615 620
 Gln Ala Asn Gln Leu Asn Phe Asn Thr Arg Gly Leu Phe Asn Asp Ala

625 630 635 640
 Ile Val Gln Asp Thr Pro Pro Ala Ser Gln Pro Ala Gly Ala Gly Ser
 645 650 655
 Val Arg Asn Thr Val Ser Arg Trp Leu Asn Asn Pro Gly Trp Gly Trp
 660 665 670
 Glu Glu Tyr Val Val Thr Arg Thr Arg Tyr Val Ile Asp Ile Ala Gln
 675 680 685
 Leu His Gly Lys Phe Thr Gln His Thr Asp Gln Phe Cys Asp Gln Ile
 690 695 700
 Arg Lys Ala Leu Ala Ala Gln Val Asp Val Ser Val Thr Ala Gly Met
 705 710 715 720
 Ala Thr Phe Phe Ala Glu Phe Ser Leu Cys Leu Thr Gly Leu Gln Glu
 725 730 735
 Ser Leu Arg Asp Ser Leu Ala Val Arg Gln Gln Asn Glu His Ser Thr
 740 745 750
 Arg Ala Leu Ser Gln Leu Leu Lys Gln Ser Met Thr Thr Ala Ala Trp
 755 760 765
 Ile Gln Glu Asp Thr Arg Leu Leu Arg Asp Asp Ile Gln Thr Leu Phe
 770 775 780
 Ala Ala Glu Gln Pro
 785 790

<210> 8852

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 8852

Arg Ile Gln His Val Asn Ala Gly Trp Phe Asp Gly Ala Asp Asp Asp
 1 5 10 15
 Leu Ala Ser Ala Gly Ser Pro Ala Asp Asp Pro Ser Thr Ala Glu Ala
 20 25 30
 Glu Thr His Thr Gly Glu Arg Arg Ala Gly Met Lys Pro Leu Leu Ser
 35 40 45
 Val Asn Gly Leu Met Met Arg Phe Gly Gly Leu Leu Ala Val Asn Asn
 50 55 60
 Val Asn Leu Asp Leu His Lys Lys Glu Ile Val Ser Leu Ile Gly Pro
 65 70 75 80
 Asn Gly Ala Gly Lys Thr Thr Val Phe Asn Cys Leu Thr Gly Phe Tyr
 85 90 95
 Lys Pro Thr Gly Gly Thr Ile Met Leu Arg Asp Gln His Leu Glu Gly
 100 105 110
 Leu Pro Gly Gln Gln Ile Ala Arg Met Gly Val Val Arg Thr Phe Gln
 115 120 125
 His Val Arg Leu Phe Arg Glu Met Thr Val Ile Glu Asn Leu Leu Val
 130 135 140
 Ala Gln His Gln Gln Leu Lys Thr Gly Leu Phe Ser Gly Leu Leu Lys
 145 150 155 160
 Thr Pro Ala Phe Arg Arg Thr Gln Glu Glu Ala Leu Asp Arg Ala Ala
 165 170 175
 Thr Trp Leu Asp Arg Ile Gly Leu Leu Gln His Ala Asn Arg Gln Ala
 180 185 190
 Ser Asn Leu Ala Tyr Gly Asp Gln Arg Arg Leu Glu Ile Val Arg Cys
 195 200 205
 Met Val Thr Gln Pro Glu Ile Leu Met Leu Asp Glu Pro Ala Ala Gly
 210 215 220
 Leu Asn Pro Lys Glu Thr Lys Glu Leu Asp Glu Leu Ile Ala Glu Leu
 225 230 235 240
 Arg Asp His His Asp Thr Thr Ile Leu Leu Ile Glu His Asp Met Lys
 245 250 255
 Leu Val Met Gly Ile Ser Asp Arg Ile Tyr Val Val Asn Gln Gly Thr


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<210> 8853
<211> 450
<212> PRT
<213> Enterobacter cloacae
```

Tyr	Arg	Ala	Ser	Gly	Thr	Ile	Arg	Glu	Met	Thr	Met	Thr	Ser	Leu	Arg
1				5					10					15	
His	Thr	Ala	Leu	20	Gly	Leu	Ala	Leu	Gly	Leu	Ala	Phe	Ala	Thr	Asn
Met	Ala	Val	Thr	Thr	Ile	Pro	Phe	Trp	His	Ser	Met	Glu	30	Gly	Leu
		35				40						45			
Gly	Lys	Glu	Val	Asp	Ser	Leu	Ala	Gln	Arg	Phe	Asn	Asp	Thr	His	Pro
50						55					60				
Asp	Tyr	Lys	Ile	Val	Pro	Val	Tyr	Lys	Gly	Asn	Tyr	Glu	Gln	Ser	Leu
65					70					75					80
Ser	Ala	Gly	Ile	Ala	Ala	Phe	Arg	Thr	Gly	Asn	Ala	Pro	Ala	Leu	Leu
				85					90					95	
Gln	Val	Tyr	Glu	Val	Gly	Thr	Ala	Thr	Met	Met	Ala	Ser	Lys	Ala	Ile
				100				105						110	
Lys	Pro	Val	Tyr	Glu	Val	Phe	Lys	Glu	Ala	Gly	Ile	Asn	Phe	Asp	Glu
				115			120					125			
Ser	Gln	Phe	Val	Pro	Thr	Val	Ala	Gly	Tyr	Tyr	Thr	Asp	Ser	Lys	Ser
		130				135					140				
Gly	His	Leu	Leu	Ser	Gln	Pro	Phe	Asn	Ser	Ser	Thr	Pro	Val	Leu	Tyr
145					150					155				160	
Tyr	Asn	Lys	Asp	Ala	Phe	Arg	Lys	Ala	Gly	Leu	Asp	Pro	Glu	Gln	Pro
				165					170					175	
Pro	Lys	Thr	Trp	Gln	Asp	Leu	Ala	Glu	Tyr	Thr	Ala	Lys	Leu	Lys	Ala
			180					185					190		
Ala	Gly	Met	Lys	Cys	Gly	Tyr	Ala	Ser	Gly	Trp	Gln	Gly	Trp	Ile	Gln
			195				200					205			
Ile	Glu	Asn	Phe	Ser	Ala	Trp	His	Gly	Leu	Pro	Val	Ala	Thr	Lys	Asn
					215					220					
Asn	Gly	Phe	Asp	Gly	Thr	Asp	Ala	Val	Leu	Glu	Phe	Asn	Lys	Pro	Glu
225					230					235				240	
Gln	Val	Lys	His	Ile	Ala	Leu	Leu	Glu	Glu	Leu	Asn	Lys	Lys	Gly	Asp
				245				250					255		
Phe	Ser	Tyr	Phe	Gly	Arg	Lys	Asp	Glu	Ser	Thr	Glu	Lys	Phe	Tyr	Asn
			260				265					270			
Gly	Asp	Cys	Ala	Ile	Thr	Thr	Ala	Ser	Ser	Gly	Ser	Leu	Ala	Asp	Ile
		275					280					285			
Arg	His	Tyr	Ala	Lys	Phe	Asn	Tyr	Gly	Val	Gly	Met	Met	Pro	Tyr	Asp
		290				295					300				
Ala	Asp	Val	Lys	Gly	Ala	Pro	Gln	Asn	Ala	Ile	Ile	Gly	Gly	Ala	Ser
305					310					315				320	
Leu	Trp	Val	Met	Gln	Gly	Lys	Asp	Asn	Gly	Thr	Tyr	Lys	Gly	Val	Ala
				325					330					335	
Glu	Phe	Leu	Asp	Phe	Leu	Ala	Lys	Pro	Glu	Asn	Ala	Ala	Glu	Trp	His
			340					345					350		
Gln	Lys	Thr	Gly	Tyr	Leu	Pro	Ile	Thr	Lys	Ala	Ala	Tyr	Asp	Leu	Thr

```

385          390          395          400
Leu Gly Asn Met Pro Gln Ile Arg Thr Ile Val Asp Glu Glu Leu Glu
          405          410          415
Ser Val Trp Thr Gly Lys Lys Thr Pro Gln Gln Ala Leu Asp Ser Ala
          420          425          430
Val Glu Arg Gly Asn Gln Leu Leu Arg Arg Phe Glu Gln Ser Thr Lys
          435          440          445
Ser
450

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<210> 8854

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 8854

```

Pro Met Ser Ser Ser Arg Pro Val Phe Arg Ser Arg Trp Leu Pro Tyr
1          5          10          15
Leu Leu Val Ala Pro Gln Leu Val Ile Thr Val Ile Phe Phe Ile Trp
          20          25          30
Pro Ala Gly Glu Ala Leu Trp Tyr Ser Val Gln Ser Val Asp Pro Phe
          35          40          45
Gly Leu Ser Ser Gln Phe Val Gly Leu Asp Asn Phe Thr Ala Leu Phe
          50          55          60
His Asp Ser Tyr Tyr Leu Asp Ser Phe Trp Thr Thr Ile Lys Phe Ser
          65          70          75          80
Ala Leu Val Thr Val Ser Gly Leu Val Ala Ser Leu Phe Phe Ala Ala
          85          90          95
Leu Val Asp Tyr Val Val Arg Gly Ser Arg Leu Tyr Gln Thr Leu Met
          100          105          110
Leu Leu Pro Tyr Ala Val Ala Pro Ala Val Ala Ala Val Leu Trp Ile
          115          120          125
Phe Leu Phe Asn Pro Gly Arg Gly Leu Ile Thr His Phe Leu Gly Glu
          130          135          140
Phe Gly Tyr Asp Trp Asn His Ala Gln Asn Ser Gly Gln Ala Met Phe
          145          150          155          160
Leu Val Val Phe Ala Ser Val Trp Lys Gln Ile Ser Tyr Asn Phe Leu
          165          170          175
Phe Phe Phe Ala Ala Leu Gln Ser Ile Pro Arg Ser Leu Val Glu Ala
          180          185          190
Ala Ala Ile Asp Gly Ala Gly Pro Val Arg Arg Phe Phe Arg Leu Ser
          195          200          205
Leu Pro Leu Ile Ala Pro Val Ser Phe Phe Leu Leu Val Val Asn Leu
          210          215          220
Val Tyr Ala Phe Phe Asp Thr Phe Pro Val Ile Asp Ala Ala Thr Ala
          225          230          235          240
Gly Gly Pro Val Gln Ala Thr Thr Thr Leu Ile Tyr Lys Ile Tyr Arg
          245          250          255
Glu Gly Phe Ala Gly Leu Asp Leu Ser Ala Ser Ala Ala Gln Ser Val
          260          265          270
Val Leu Met Phe Leu Val Ile Ile Leu Thr Val Val Gln Phe Arg Tyr
          275          280          285
Val Glu Ser Lys Val Arg Tyr Gln
          290          295

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<210> 8855

<211> 373

<212> PRT

<213> Enterobacter cloacae

<400> 8855

Pro Cys Ser Ala Arg Leu Ser Ala Ala Trp Ser Ile Ala Arg Asn Lys
 1 5 10 15
 Met Ala Gly Leu Lys Leu Gln Ala Val Thr Lys Ser Trp Asp Gly Lys
 20 25 30
 Thr Gln Val Ile Gln Pro Leu Thr Leu Asp Val Ala Asp Gly Gly Phe
 35 40 45
 Ile Val Met Val Gly Pro Ser Gly Cys Gly Lys Ser Thr Leu Leu Arg
 50 55 60
 Met Val Ala Gly Leu Glu Arg Val Thr Ser Gly Asp Ile Trp Ile Asp
 65 70 75 80
 Arg Gln Arg Val Thr Glu Met Glu Pro Lys Asp Arg Gly Ile Ala Met
 85 90 95
 Val Phe Gln Asn Tyr Ala Leu Tyr Pro His Met Ser Val Glu Glu Asn
 100 105 110
 Met Ala Trp Gly Leu Lys Ile Arg Gly Met Gly Lys Gly His Ile Glu
 115 120 125
 Glu Arg Val Lys Glu Ala Ala Arg Ile Leu Glu Leu Asp Gly Leu Leu
 130 135 140
 Lys Arg Arg Pro Arg Glu Leu Ser Gly Gly Gln Arg Gln Arg Val Ala
 145 150 155 160
 Met Gly Arg Ala Ile Val Arg Asp Pro Ala Val Phe Leu Phe Asp Glu
 165 170 175
 Pro Leu Ser Asn Leu Asp Ala Lys Leu Arg Val Gln Met Arg Leu Glu
 180 185 190
 Leu Gln Gln Leu His Arg Arg Leu Gly Thr Thr Ser Leu Tyr Val Thr
 195 200 205
 His Asp Gln Val Glu Ala Met Thr Leu Ala Gln Arg Val Met Val Met
 210 215 220
 Asn Lys Gly Ile Ala Glu Gln Ile Gly Thr Pro Val Glu Val Tyr Glu
 225 230 235 240
 Lys Pro Ala Ser Arg Phe Val Ala Ser Phe Ile Gly Ser Pro Ala Met
 245 250 255
 Asn Leu Leu Asp Gly Arg Ile Asn Ala Ala Gly Thr His Phe Glu Leu
 260 265 270
 Glu Ser Gly Met Ala Leu Pro Ile Asn Trp Tyr Tyr Arg Gly Tyr Ala
 275 280 285
 Gly Arg Lys Met Thr Leu Gly Ile Arg Pro Glu His Ile Gly Leu Thr
 290 295 300
 Ser Gln Ala Asp Gly Gly Val Pro Leu Val Met Asp Thr Leu Glu Met
 305 310 315 320
 Leu Gly Ala Asp Asn Leu Ala His Gly Arg Trp Gly Glu Gln Lys Leu
 325 330 335
 Val Val Arg Leu Pro His Gln Glu Arg Pro Lys Ala Gly Ser Thr Leu
 340 345 350
 Trp Leu His Met Pro Glu Asn His Leu His Leu Phe Asp Gly Glu Thr
 355 360 365
 Gly Gln Arg Val
 370

<210> 8856

<211> 361

<212> PRT

<213> *Enterobacter cloacae*

<400> 8856

Phe Leu Asn Leu Pro Phe Lys Arg Gly Arg Leu Ser Phe Val Arg Asp
 1 5 10 15
 Lys Leu Ser Lys Ser Leu Thr Ser Arg Phe Leu Arg Thr Met Lys Lys
 20 25 30
 Lys Arg Pro Val Leu Gln Asp Val Ala Asp Arg Val Gly Val Thr Lys
 35 40 45

Met Thr Val Ser Arg Phe Leu Arg Asn Pro Glu Gln Val Ser Val Ala
 50 55 60
 Leu Arg Gly Lys Ile Ala Ala Leu Asp Glu Leu Gly Tyr Ile Pro
 65 70 75 80
 Asn Arg Ala Pro Asp Ile Leu Ser Asn Ala Thr Ser Arg Ala Val Gly
 85 90 95
 Val Leu Leu Pro Ser Leu Thr Asn Gln Val Phe Ala Glu Val Leu Arg
 100 105 110
 Gly Ile Glu Ser Val Thr Asp Ala Phe Gly Tyr Gln Thr Met Leu Ala
 115 120 125
 His Tyr Gly Tyr Lys Pro Glu Leu Glu Glu Arg Leu Glu Ser Met
 130 135 140
 Leu Ser Trp Asn Ile Asp Gly Leu Ile Leu Thr Glu Arg Thr His Thr
 145 150 155 160
 Pro Arg Thr Leu Lys Met Ile Glu Val Ala Gly Ile Pro Val Val Glu
 165 170 175
 Leu Met Asp Ser Gln Ser Pro Cys Leu Asp Ile Ala Val Gly Phe Asp
 180 185 190
 Asn Phe Glu Ala Ala Arg Gln Met Thr Ala Ala Ile Ile Ala Arg Gly
 195 200 205
 His Arg His Val Ala Tyr Leu Gly Ala Arg Leu Asp Glu Arg Thr Ile
 210 215 220
 Ile Lys Gln Lys Gly Tyr Glu Gln Ala Met Leu Asp Ala Gly Leu Thr
 225 230 235 240
 Pro Tyr Ser Val Met Val Glu Gln Ser Ser Ser Tyr Thr Ser Gly Ile
 245 250 255
 Glu Leu Met Arg Gln Ala Arg Arg Glu Tyr Pro Gln Leu Asp Gly Ile
 260 265 270
 Phe Cys Thr Asn Asp Asp Leu Ala Val Gly Ala Ala Phe Glu Cys Gln
 275 280 285
 Arg Leu Gly Leu Lys Ile Pro Asp Asp Met Ala Ile Ala Gly Phe His
 290 295 300
 Gly His Asp Ile Gly Gln Val Met Glu Pro Arg Leu Ala Ser Val Leu
 305 310 315 320
 Thr Pro Arg Glu Arg Met Gly Arg Ile Gly Ala Glu Arg Leu Leu Ala
 325 330 335
 Arg Ile Arg Gly Glu Ala Val Thr Pro Lys Met Leu Asp Leu Gly Phe
 340 345 350
 Thr Leu Ser Pro Gly Gly Ser Ile
 355 360

<210> 8857

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 8857

Gln Leu Thr Glu Gly His Pro Leu Ser Thr Thr Asn His Asp His His
 1 5 10 15
 Val Tyr Val Leu Met Gly Val Ser Gly Ser Gly Lys Ser Ala Val Ala
 20 25 30
 Ser Glu Val Ala His Gln Leu Gln Ala Ala Phe Leu Asp Gly Asp Phe
 35 40 45
 Leu His Pro Arg Ser Asn Ile Met Lys Met Ala Ser Gly Glu Pro Leu
 50 55 60
 Asn Asp Asp Asp Arg Lys Pro Trp Leu Gln Ala Leu Asn Asp Ala Ala
 65 70 75 80
 Phe Ala Met Gln Arg Thr Asn Lys Val Ser Leu Ile Val Cys Ser Ala
 85 90 95
 Leu Lys Lys Thr Tyr Arg Asp Leu Leu Arg Asp Gly Asn Pro Asn Leu
 100 105 110

Ser Phe Ile Tyr Leu Lys Gly Asp Phe Gly Val Ile Glu Ser Arg Leu
 115 120 125
 Lys Ala Arg Lys Gly His Phe Phe Lys Thr Gln Met Leu Val Thr Gln
 130 135 140
 Phe Glu Ala Leu Gln Glu Pro Gly Ala Asp Glu Gln Asp Val Leu Val
 145 150 155 160
 Val Asp Ile Asp Gln Pro Leu Glu Gly Val Val Ala Ser Thr Ile Glu
 165 170 175
 Val Ile Asn Lys Arg Gln
 180

<210> 8858

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 8858

Val Leu Ser Thr Leu Thr Leu Val Leu Thr Ala Val Gly Ser Val Leu
 1 5 10 15
 Leu Leu Leu Phe Leu Val Met Lys Ala Arg Met His Ala Phe Val Ala
 20 25 30
 Leu Met Val Val Ser Ile Gly Ala Gly Leu Phe Ser Gly Met Pro Leu
 35 40 45
 Asp Lys Ile Ala Ala Thr Met Glu Lys Gly Met Gly Gly Thr Leu Gly
 50 55 60
 Phe Leu Ala Ile Val Val Ala Leu Gly Ala Met Phe Gly Lys Ile Leu
 65 70 75 80
 His Glu Thr Gly Ala Val Asp Gln Ile Ala Val Lys Met Leu Lys Ser
 85 90 95
 Phe Gly His Ser Arg Ala His Tyr Ala Ile Gly Leu Ala Gly Leu Ile
 100 105 110
 Cys Ala Leu Pro Leu Phe Phe Glu Val Ala Val Val Leu Leu Ile Ser
 115 120 125
 Val Ala Phe Ser Met Ala Arg His Thr Gly Thr Asn Leu Val Lys Leu
 130 135 140
 Val Ile Pro Leu Phe Ala Gly Val Ala Ala Ala Ala Phe Leu Leu
 145 150 155 160
 Pro Gly Pro Ala Pro Met Leu Leu Ala Ser Gln Met His Ala Asp Phe
 165 170 175
 Gly Trp Met Ile Leu Ile Gly Leu Cys Ala Ala Ile Pro Gly Met Ile
 180 185 190
 Ile Ala Gly Pro Leu Trp Gly Asn Phe Ile Ser Arg Tyr Val Glu Leu
 195 200 205
 His Ile Pro Asp Asp Ile Thr Glu Pro His Leu Gly Glu Gly Lys Met
 210 215 220
 Pro Ser Phe Gly Phe Ser Leu Ser Leu Ile Leu Leu Pro Leu Val Leu
 225 230 235 240
 Val Gly Leu Lys Thr Ile Ala Ala Arg Phe Val Pro Val Gly Ser Thr
 245 250 255
 Ala Tyr Glu Trp Phe Glu Phe Ile Gly His Pro Phe Thr Ala Ile Leu
 260 265 270
 Val Ala Cys Leu Val Ala Ile Tyr Gly Leu Ala Met Arg Gln Gly Met
 275 280 285
 Pro Lys Asp Arg Val Met Glu Ile Cys Gly Ala Ala Leu Gln Pro Ala
 290 295 300
 Gly Ile Ile Leu Leu Val Ile Gly Ala Gly Gly Val Phe Lys Gln Val
 305 310 315 320
 Leu Val Asp Ser Gly Val Gly Pro Ala Leu Gly Glu Ala Leu Thr Gly
 325 330 335
 Met Gly Leu Pro Ile Ala Val Thr Cys Phe Val Leu Ala Ala Val Val
 340 345 350

Arg Ile Ile Gln Gly Ser Ala Thr Val Ala Cys Leu Thr Ala Val Gly
 355 360 365
 Leu Val Met Pro Val Ile Glu Gln Leu Asn Tyr Ser Gly Ala Gln Met
 370 375 380
 Ala Ala Leu Ser Ile Cys Ile Ala Gly Gly Ser Ile Val Val Ser His
 385 390 395 400
 Val Asn Asp Ala Gly Phe Trp Leu Phe Gly Lys Phe Thr Gly Ala Thr
 405 410 415
 Glu Ala Gln Thr Leu Lys Thr Trp Thr Leu Met Glu Thr Ile Leu Gly
 420 425 430
 Thr Thr Gly Ala Val Val Gly Met Ile Ala Phe Thr Leu Leu Ser
 435 440 445

<210> 8859

<211> 683

<212> PRT

<213> Enterobacter cloacae

<400> 8859

Lys Pro Trp Pro Ser Glu Leu Pro Glu Pro Asp Ala Ala Ala Ala Trp
 1 5 10 15
 His Asn Leu Ala Gly Ala Gly Gly Arg Met Thr Gln Leu Thr Ala Gly
 20 25 30
 Lys Pro Glu Pro Leu Gly Ala Ser Phe Asp Gly Lys Gly Val Asn Phe
 35 40 45
 Thr Leu Phe Ser Ala His Ala Glu Arg Val Glu Leu Cys Val Phe Asp
 50 55 60
 Gly Glu Gly Asn Glu His Arg Tyr Asp Leu Pro Ala Arg Thr Gly Asp
 65 70 75 80
 Thr Trp His Gly Tyr Leu Ala Gly Gly Arg Pro Gly Met His Tyr Gly
 85 90 95
 Phe Arg Val His Gly Pro Trp Glu Pro Ser Gln Gly His Trp Phe Asn
 100 105 110
 Pro Ala Lys Leu Leu Ile Asp Pro Cys Ala His Arg Val Asp Gly Glu
 115 120 125
 Phe Lys Asp Asp Pro Leu Phe His Val Gly Tyr Gly Glu Pro Asp His
 130 135 140
 Leu Asp Ser Ala Pro Val Ala Pro Lys Ser Val Val Val His Asp Leu
 145 150 155 160
 Tyr Asp Trp Glu Asp Asp Ala Pro Pro Arg Thr Pro Trp Gly Asn Thr
 165 170 175
 Val Ile Tyr Glu Ala His Val Lys Gly Leu Thr Tyr Leu His Pro Ser
 180 185 190
 Ile Pro Lys Glu Met Arg Gly Thr Tyr Lys Ala Leu Gly His Pro Thr
 195 200 205
 Met Val Ala Tyr Leu Lys His Leu Gly Ile Thr Ala Leu Glu Leu Leu
 210 215 220
 Pro Val Ala His Phe Ala Ser Glu Pro Arg Leu Gln Arg Leu Gly Leu
 225 230 235 240
 Ser Asn Tyr Trp Gly Tyr Asn Pro Leu Ala Leu Phe Ala Leu Asp Pro
 245 250 255
 Arg Tyr Ala Val Asn Pro Glu Lys Ala Arg Asp Glu Phe Arg Asp Ala
 260 265 270
 Val Lys Ala Leu His Ala Ala Gly Ile Glu Val Ile Leu Asp Val Val
 275 280 285
 Leu Asn His Ser Ala Glu Ser Asp Leu Asp Gly Pro Thr Leu Ser Gln
 290 295 300
 Arg Gly Ile Asp Asn Arg Ser Tyr Tyr Trp Ile Arg Asp Asp Gly Asp
 305 310 315 320
 Tyr Glu Asn Trp Thr Gly Cys Gly Asn Thr Leu Asn Leu Ser His Pro
 325 330 335

Ala Val Thr His Tyr Ala Tyr Glu Cys Leu Lys Tyr Trp Val Glu Thr
 340 345 350
 Phe His Val Asp Gly Phe Arg Phe Asp Leu Ala Pro Val Met Gly Arg
 355 360 365
 Thr Pro Ala Phe Ser Gln Gln Ala Pro Leu Phe Glu Ala Ile Lys Asn
 370 375 380
 Cys Pro Val Leu Ser Lys Val Lys Leu Ile Ala Glu Pro Trp Asp Ile
 385 390 395 400
 Gly Glu Gly Gly Tyr Gln Val Gly Asn Phe Pro Leu Phe Ala Glu
 405 410 415
 Trp Asn Asp His Phe Arg Asp Ala Val Arg Arg Phe Trp Leu Thr Arg
 420 425 430
 Asp Leu Ser Leu Gly Glu Phe Ala Gly Arg Phe Ala Gly Ser Ser Asp
 435 440 445
 Leu Phe Lys Arg Asp Gly Lys Arg Pro Ser Ala Thr Ile Asn Val Val
 450 455 460
 Thr Ala His Asp Gly Phe Thr Leu Arg Asp Cys Val Cys Phe Asn Gln
 465 470 475 480
 Lys His Asn Glu Ala Asn Gly Glu Glu Asn Arg Asp Gly Thr Asn Asn
 485 490 495
 Asn His Ser Phe Asn His Gly Ile Glu Gly Leu Gly Gly Ser Leu Asp
 500 505 510
 Val Ile Glu Arg Arg Arg Ala Ser Val His Ala Leu Leu Thr Thr Leu
 515 520 525
 Leu Leu Ser Gln Gly Thr Pro Met Leu Leu Ala Gly Asp Glu His Gly
 530 535 540
 His Ser Gln His Gly Asn Asn Asn Ala Tyr Cys Gln Asp Asn Thr Leu
 545 550 555 560
 Thr Trp Leu Asp Trp Gly Glu Ala Asn Ser Gly Leu Thr His Phe Thr
 565 570 575
 Ala Ala Leu Ile His Leu Arg Gln Arg Ile Pro Ala Leu Thr Ala Asp
 580 585 590
 Arg Trp Trp Glu Glu Gly Asp Gly Asn Val Arg Trp Leu Asn Lys Asp
 595 600 605
 Ala Gln Pro Leu Ser Ala Gln Glu Trp Gln His Gly Ile Pro Cys Leu
 610 615 620
 Gln Ile Leu Leu Ser Asp Ala Trp Leu Val Thr Leu Asn Ala Thr Asp
 625 630 635 640
 Asp Val Ala Glu Ile Val Leu Pro Asp Gly Glu Trp Arg Ala Ile Pro
 645 650 655
 Pro Phe Ala Gly Ala Asp Asn Pro Val Val Met Ala Val Trp His Gly
 660 665 670
 Pro Ala His Gly Val Cys Val Phe Gln Arg
 675 680

<210> 8860

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 8860

Tyr Thr Leu Ser Ala Asp Pro Ser Arg Pro Val Val Lys Thr Cys Asp
 1 5 10 15
 Pro Lys Gln Ala Val Ala Val Ala Asn Lys Ile Val Asn Asp Gly Ile
 20 25 30
 Gln Tyr Val Ile Gly His Leu Cys Ser Ser Thr Gln Pro Ala Ser
 35 40 45
 Asp Ile Tyr Glu Asp Glu Gly Ile Leu Met Ile Thr Pro Gly Ala Thr
 50 55 60
 Asn Pro Glu Leu Thr Gln Arg Gly Tyr Gln His Ile Met Arg Thr Ala
 65 70 75 80

Gly Leu Asp Ser Ser Gln Gly Pro Thr Ala Ala Lys Tyr Ile Leu Glu
 85 90
 Thr Val Lys Pro Gln Arg Ile Ala Ile Ile His Asp Lys Gln Gln Tyr
 100 105
 Gly Glu Gly Leu Ala Arg Ser Val Gln Asp Gly Leu Lys Lys Gly Gly
 115 120 125
 Ala Asn Ile Val Phe Phe Asp Gly Ile Thr Ala Gly Glu Lys Asp Phe
 130 135 140
 Ser Ala Leu Ile Ala Arg Leu Gln Lys Glu Asn Ile Asp Phe Val Tyr
 145 150 155 160
 Tyr Gly Gly Tyr Tyr Pro Glu Met Gly Gln Met Leu Arg Gln Ala Arg
 165 170 175
 Ala Thr Gly Leu Lys Thr Gln Phe Met Gly Pro Glu Gly Val Gly Asn
 180 185 190
 Ala Ser Leu Ser Asn Ile Ala Gly Asp Ser Ala Glu Gly Met Leu Val
 195 200 205
 Thr Met Pro Lys Arg Tyr Asp Gln Asp Pro Ala Asn Lys Ala Ile Val
 210 215 220
 Asp Ala Leu Lys Ala Gln Lys Lys Asp Pro Ser Gly Pro Tyr Val Trp
 225 230 235 240
 Ile Thr Tyr Ala Ala Val Gln Ser Leu Ala Thr Ala Leu Asp Arg Thr
 245 250 255
 Gly Ser Lys Glu Pro Leu Asp Leu Val Lys Asp Leu Lys Ala His Gly
 260 265 270
 Ala Asn Thr Val Ile Gly Pro Leu Asn Trp Asp Glu Lys Gly Asp Leu
 275 280 285
 Lys Gly Phe Glu Phe Gly Val Phe Lys Trp His Ala Asp Gly Ser Ser
 290 295 300
 Ser Val Ala Arg
 305

<210> 8861

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 8861

Arg Cys Gly Val Val Cys Pro Ala Asn Ser Gly Ser Ala Gly Asp Ala
 1 5 10 15
 Tyr Arg Tyr Ser Gly Pro Ser Gly Gly Arg Glu Ser Met Lys Pro Met
 20 25 30
 His Phe Ala Met Ala Leu Leu Ser Ala Ala Met Phe Phe Val Leu Ala
 35 40 45
 Gly Val Phe Met Gly Val Gln Leu Gly Leu Asp Gly Thr Lys Leu Val
 50 55 60
 Val Asp Thr Ala Pro Asp Ile Arg Trp Gln Trp Val Phe Ile Gly Thr
 65 70 75 80
 Ala Val Val Phe Leu Phe Gln Leu Leu Arg Pro Leu Phe Gln Lys Thr
 85 90 95
 Leu Lys Asn Val Ser Gly Pro Lys Phe Val Leu Pro Ala Ile Asp Gly
 100 105 110
 Thr Thr Val Lys Gln Lys Leu Phe Leu Val Ala Leu Leu Val Ala Ala
 115 120 125
 Val Ala Trp Pro Phe Met Val Ser Arg Gly Thr Val Asp Ile Ala Thr
 130 135 140
 Leu Thr Met Ile Tyr Val Ile Leu Gly Leu Gly Leu Asn Val Val Val
 145 150 155 160
 Gly Leu Ser Gly Leu Leu Val Leu Gly Tyr Gly Gly Phe Tyr Ala Ile
 165 170 175
 Gly Ala Tyr Thr Phe Ala Leu Leu Asn His Tyr Tyr Gly Leu Gly Phe
 180 185 190

Trp Thr Cys Leu Pro Leu Ala Gly Leu Val Ser Ala Ala Gly Phe
 195 200 205
 Leu Leu Gly Phe Pro Val Leu Arg Leu Arg Gly Asp Tyr Leu Ala Ile
 210 215 220
 Val Thr Leu Gly Phe Gly Glu Ile Val Arg Ile Leu Leu Leu Asn Asn
 225 230 235 240
 Thr Glu Val Thr Gly Gly Pro Asn Gly Ile Ser Gln Ile Pro Lys Pro
 245 250 255
 Thr Phe Phe Gly Leu Glu Phe Ser Arg Thr Ala Arg Glu Gly Trp
 260 265 270
 Asp Thr Phe Ser Asn Phe Phe Gly Ile Lys Tyr Asp Pro Ser Asp Arg
 275 280 285
 Val Ile Trp Leu Tyr Leu Val Ala Leu Leu Val Val Ile Thr Leu
 290 295 300
 Phe Val Ile Asn Arg Leu Leu Arg Met Pro Leu Gly Arg Ala Trp Glu
 305 310 315 320
 Ala Leu Arg Glu Asp Glu Ile Ala Cys Arg Ser Leu Gly Leu Asn Pro
 325 330 335
 Thr Arg Ile Lys Leu Thr Ala Phe Thr Ile Ser Ala Ala Phe Ala Gly
 340 345 350
 Phe Ala Gly Thr Leu Phe Ala Ala Arg Gln Gly Phe Val Ser Pro Glu
 355 360 365
 Ser Phe Thr Phe Ala Glu Ser Ala Phe Val Leu Ala Ile Val Val Leu
 370 375 380
 Gly Gly Met Gly Ser Gln Phe Ala Val Ile Leu Ala Ala Ile Leu Leu
 385 390 395 400
 Val Val Ser Arg Glu Leu Met Arg Asp Phe Asn Glu Tyr Ser Met Leu
 405 410 415
 Met Leu Gly Gly Leu Met Val Leu Met Met Ile Trp Arg Pro Gln Gly
 420 425 430
 Leu Leu Pro Met Thr Arg Pro Gln Leu Lys Leu Lys Arg Thr Gln Ala
 435 440 445
 Lys Gly Glu Gln Ala
 450

<210> 8862

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 8862

Ser Ala His Thr Leu Val Arg His Lys Met Glu Lys Ala Met Leu Thr
 1 5 10 15
 Phe Asp Lys Val Asn Ala His Tyr Gly Lys Ile Gln Ala Leu His Asp
 20 25 30
 Val Ser Leu His Ile Asn Gln Gly Glu Ile Val Thr Leu Ile Gly Ala
 35 40 45
 Asn Gly Ala Gly Lys Thr Thr Leu Leu Gly Thr Leu Cys Gly Asp Pro
 50 55 60
 Arg Ala Thr Ser Gly Arg Ile Val Phe Asp Gly Lys Asp Ile Thr Asp
 65 70 75 80
 Trp Gln Thr Ala Arg Ile Met Arg Glu Ala Val Ala Ile Val Pro Glu
 85 90 95
 Gly Arg Arg Val Phe Ser Arg Met Thr Val Glu Glu Asn Leu Ala Met
 100 105 110
 Gly Gly Phe Phe Ala His Arg Asp Glu Tyr Gln Thr Arg Ile Lys Trp
 115 120 125
 Val Tyr Glu Leu Phe Pro Arg Leu Trp Glu Arg Arg Ile Gln Arg Ala
 130 135 140
 Gly Thr Met Ser Gly Gly Glu Gln Gln Met Leu Ala Ile Gly Arg Ala
 145 150 155 160

Leu Met Ser Gln Pro Arg Leu Leu Leu Leu Asp Glu Pro Ser Leu Gly
 165 170 175
 Leu Ala Pro Ile Ile Ile Gln Gln Ile Phe Asp Thr Ile Glu Gln Leu
 180 185 190
 Arg Lys Glu Gly Met Thr Ile Phe Leu Val Glu Gln Asn Ala Asn Gln
 195 200 205
 Ala Leu Lys Leu Ala Asp Arg Gly Tyr Val Leu Glu Asn Gly Arg Val
 210 215 220
 Val Leu Ser Asp Thr Gly Asp Ala Leu Leu Ala Asn Glu Ala Val Arg
 225 230 235 240
 Ser Ala Tyr Leu Gly Gly
 245

<210> 8863

<211> 735

<212> PRT

<213> Enterobacter cloacae

<400> 8863

Lys Asn Arg Met Asn Thr Met Ser Asp Arg Ile Ser Arg Asp Val Ile
 1 5 10 15
 Asn Ala Leu Ile Ala Gly His Phe Ala Asp Pro Phe Ser Val Leu Gly
 20 25 30
 Met His Arg Thr Glu Ala Gly Leu Glu Val Arg Ala Leu Leu Pro Asp
 35 40 45
 Ala Thr Glu Val Trp Val Ile Glu Pro Lys Thr Gly Arg Lys Val Gly
 50 55 60
 Asn Leu Glu Cys Leu Asp Ser Arg Gly Phe Phe Ser Gly Val Met Pro
 65 70 75 80
 Arg Arg Lys Asn Pro Phe Arg Tyr Gln Leu Ala Val Ile Trp His Gly
 85 90 95
 Gln Gln Asn Leu Ile Asp Asp Pro Tyr Ser Phe Gly Pro Leu Leu Lys
 100 105 110
 Glu Met Asp Ala Trp Leu Leu Ser Glu Gly Thr His Leu Arg Pro Tyr
 115 120 125
 Glu Thr Leu Gly Ala His Ala Asp Thr Met Asp Gly Ile Thr Gly Thr
 130 135 140
 Arg Phe Ala Val Trp Ala Pro Asn Ala Gln Arg Val Ser Val Val Gly
 145 150 155 160
 Gln Phe Asn Tyr Trp Asp Gly Arg Arg His Pro Met Arg Leu Arg Arg
 165 170 175
 Glu Thr Gly Ile Trp Glu Leu Phe Ile Pro Gly Ala His Asn Gly Gln
 180 185 190
 Leu Tyr Lys Phe Glu Met Ile Asp Ala Asn Gly Lys Leu Arg Ile Lys
 195 200 205
 Ser Asp Pro Tyr Ala Phe Glu Ala Glu Leu Arg Pro Asn Thr Ala Ser
 210 215 220
 Leu Ile Cys Gly Leu Pro Glu Lys Val Val Gln Thr Glu Glu Arg Lys
 225 230 235 240
 Gln Ala Asn Arg Gly Asp Ala Pro Ile Ser Val Tyr Glu Val His Leu
 245 250 255
 Gly Ser Trp Arg Arg His Thr Asp Asn Asn Phe Trp Leu Ser Tyr Arg
 260 265 270
 Glu Leu Ala Asp Gln Leu Val Pro Tyr Ala Lys Trp Met Gly Phe Thr
 275 280 285
 His Leu Glu Leu Leu Pro Ile Asn Glu His Pro Phe Asp Gly Ser Trp
 290 295 300
 Gly Tyr Gln Pro Thr Gly Leu Tyr Ala Pro Thr Arg Arg Phe Gly Thr
 305 310 315 320
 Arg Asp Asp Phe Arg Tyr Phe Ile Asp Ala Ala His Ala Ala Gly Leu
 325 330 335

Asn Val Ile Leu Asp Trp Val Pro Gly His Phe Pro Ser Asp Asp Phe
 340 345 350
 Ala Leu Ala Glu Phe Asp Gly Thr Lys Leu Tyr Glu His Ser Asp Pro
 355 360 365
 Arg Glu Gly Tyr His Gln Asp Trp Asn Thr Leu Ile Tyr Asn Tyr Gly
 370 375 380
 Arg Arg Glu Val Ser Asn Tyr Leu Val Gly Asn Ala Leu Tyr Trp Ile
 385 390 395 400
 Glu Arg Phe Gly Ile Asp Ala Leu Arg Val Asp Ala Val Ala Ser Met
 405 410 415
 Ile Tyr Arg Asp Tyr Ser Arg Lys Glu Gly Glu Trp Ile Pro Asn Glu
 420 425 430
 Tyr Gly Gly Arg Glu Asn Leu Glu Ala Ile Glu Phe Leu Arg Asn Thr
 435 440 445
 Asn Arg Ile Ile Gly Glu Gln Val Glu Gly Ala Val Thr Met Ala Glu
 450 455 460
 Glu Ser Thr Asp Phe Pro Gly Val Ser Arg Pro Ser Met Gly Gly
 465 470 475 480
 Leu Gly Phe Trp Tyr Lys Trp Asn Leu Gly Trp Met His Asp Thr Leu
 485 490 495
 Asp Tyr Met Lys Leu Asp Pro Val Tyr Arg Gln Tyr His His Asp Lys
 500 505 510
 Leu Thr Phe Gly Leu Leu Tyr Asn Tyr Thr Glu Asn Phe Met Leu Pro
 515 520 525
 Leu Ser His Asp Glu Val Val His Gly Lys Lys Ser Ile Leu Asp Arg
 530 535 540
 Met Pro Gly Asp Ala Trp Gln Lys Phe Ala Asn Leu Arg Ala Tyr Tyr
 545 550 555 560
 Gly Trp Met Phe Ala Phe Pro Gly Lys Lys Leu Leu Phe Met Gly Asn
 565 570 575
 Glu Phe Ala Gln Gly Arg Glu Trp Asn His Asp Thr Ser Leu Asp Trp
 580 585 590
 His Leu Leu Glu Gly Ala Asp Asn Trp His His Gly Val Gln Arg Leu
 595 600 605
 Val Arg Asp Leu Asn Leu Thr Tyr Arg His His Lys Ala Leu His Glu
 610 615 620
 Leu Asp Phe Asp Pro Tyr Gly Phe Glu Trp Leu Val Val Asp Asp His
 625 630 635 640
 Glu Arg Ser Val Phe Val Phe Ala Arg Asp Lys Ala Gly Asn Glu
 645 650 655
 Ile Ile Val Ala Ser Asn Phe Thr Pro Val Pro Arg Glu His Tyr Arg
 660 665 670
 Phe Gly Ile Asn Gln Pro Gly Lys Trp Arg Glu Ile Leu Asn Thr Asp
 675 680 685
 Ser Met His Tyr His Gly Ser Asn Ala Gly Asn Gly Gly Leu Val Gln
 690 695 700
 Ser Asp Ala Ile Glu Ser His Gly Arg Pro Asn Ser Leu Ser Leu Thr
 705 710 715 720
 Leu Pro Pro Leu Gly Thr Ile Trp Leu Val Arg Glu Gly Glu
 725 730 735

<210> 8864

<211> 549

<212> PRT

<213> Enterobacter cloacae

<400> 8864

Tyr Arg Phe Gly Ser Pro Ala Ala Gly Cys Leu Gly Arg Ala Leu Met
 1 5 10 15
 Ser Ser Ala Ser Leu Arg Tyr Arg Pro Cys Leu Arg His Ser Arg Arg
 20 25 30

Asp Gly Asp Trp Gly Lys Cys Gly Arg Arg Cys Ala Ser Phe Leu Pro
 35 40 45
 Phe Gly Arg Gly Asp Arg Val Ser Asn Thr Gly Asn Val Ala Glu Ala
 50 55 60
 Ala Asn Gln Thr Gly Ala Met Met Gln Val Leu His Val Cys Ser Glu
 65 70 75 80
 Met Phe Pro Leu Leu Lys Thr Gly Gly Leu Ala Asp Val Leu Gly Ala
 85 90 95
 Leu Pro Ala Ala Gln Ile Ala Gly Gly Val Asp Thr Arg Val Leu Leu
 100 105 110
 Pro Ala Phe Pro Asp Ile Arg Arg Gly Ile Pro Asp Ala Lys Val Val
 115 120 125
 Thr Arg Arg Glu Thr Phe Ala Gly Arg Ile Thr Leu Phe Gly His
 130 135 140
 Tyr Asn Gly Thr Gly Ile Tyr Leu Ile Asp Ala Pro His Leu Tyr Asp
 145 150 155 160
 Arg Pro Gly Ser Pro Tyr His Asp Thr Asn Leu Tyr Ala Tyr Thr Asp
 165 170 175
 Asn Val Leu Arg Phe Ala Leu Leu Gly Trp Val Gly Ala Glu Met Ala
 180 185 190
 Val Gly Leu Asp Pro Phe Trp Arg Pro Asn Val Val His Ala His Asp
 195 200 205
 Trp His Ala Gly Leu Ala Pro Ala Tyr Leu Ala Ala Lys Gly His Pro
 210 215 220
 Ala Lys Ser Val Phe Thr Val His Asn Leu Ala Tyr Gln Gly Met Tyr
 225 230 235 240
 Tyr Ala His His Met Asn Asp Ile Asp Leu Pro Trp Ser Phe Phe Asn
 245 250 255
 Met His Gly Leu Glu Phe Asn Gly Gln Ile Ser Phe Leu Lys Ala Gly
 260 265 270
 Leu Tyr Tyr Ala Asp His Ile Thr Ala Val Ser Pro Thr Tyr Ala Arg
 275 280 285
 Glu Ile Thr Gln Pro Glu Phe Gly Tyr Gly Met Glu Gly Leu Leu Gln
 290 295 300
 Gln Arg His Arg Glu Gly Arg Leu Ser Gly Ile Leu Asn Gly Val Asp
 305 310 315 320
 Glu Gln Ile Trp Asn Pro Glu Thr Asp Leu Leu Ala Ala Arg Tyr
 325 330 335
 Gly Arg Asp Ser Val Glu Asp Lys Ala Glu Asn Lys Arg Gln Leu Gln
 340 345 350
 Ile Ala Met Gly Leu Lys Val Asn Asp Lys Val Pro Leu Phe Ala Val
 355 360 365
 Val Ser Arg Leu Thr Ser Gln Lys Gly Leu Asp Leu Val Leu Glu Ala
 370 375 380
 Leu Pro Gly Leu Leu Glu Gln Gly Gly Gln Leu Ala Leu Leu Gly Ala
 385 390 395 400
 Gly Asp Pro Val Leu Gln Glu Gly Phe Leu Ala Ala Ala Glu His
 405 410 415
 Pro Gly Gln Val Gly Val Gln Ile Gly Tyr His Glu Ala Phe Ser His
 420 425 430
 Arg Ile Met Gly Gly Ala Asp Val Ile Leu Val Pro Ser Arg Phe Glu
 435 440 445
 Pro Cys Gly Leu Thr Gln Leu Tyr Gly Leu Lys Tyr Gly Thr Leu Pro
 450 455 460
 Leu Val Arg Arg Thr Gly Gly Leu Ala Asp Thr Val Ser Asp Ser Ser
 465 470 475 480
 Leu Glu Asn Leu Ala Asp Gly Ile Ala Ser Gly Phe Val Phe Glu Asp
 485 490 495
 Ser Asn Ala Trp Ser Leu Leu Arg Ala Ile Arg Arg Ala Phe Val Leu
 500 505 510
 Trp Ser Arg Pro Ser Leu Trp Arg Tyr Val Gln Arg Gln Ala Met Ser

515 520 525
 Met Asp Phe Gly Trp His Val Ala Ala Gln Ser Tyr Arg Asp Leu Tyr
 530 535 540
 Gln Arg Leu Met
 545

<210> 8865

<211> 822

<212> PRT

<213> Enterobacter cloacae

<400> 8865

Arg Gly Glu Val Thr Asp Met Asn Ala Pro Phe Ser Tyr Ser Ser Pro
 1 5 10 15
 Thr Leu Ser Val Glu Ala Leu Lys His Ser Ile Ala Tyr Lys Leu Met
 20 25 30
 Phe Thr Ile Gly Lys Asp Pro Val Ile Ala Asn Lys His Glu Trp Leu
 35 40 45
 Asn Ala Thr Leu Phe Ala Val Arg Asp Arg Met Val Glu Arg Trp Leu
 50 55 60
 Arg Ser Asn Arg Ala Gln Leu Ser Gln Glu Thr Arg Gln Val Tyr Tyr
 65 70 75 80
 Leu Ser Met Glu Phe Leu Ile Gly Arg Thr Leu Ser Asn Ala Leu Leu
 85 90 95
 Ser Leu Gly Ile Tyr Asp Asp Val Lys Asn Ala Leu Glu Glu Met Gly
 100 105 110
 Leu Asp Leu Glu Glu Leu Ile Asp Glu Glu Asn Asp Pro Gly Leu Gly
 115 120 125
 Asn Gly Gly Leu Gly Arg Leu Ala Ala Cys Phe Leu Asp Ser Leu Ala
 130 135 140
 Thr Leu Ala Leu Pro Gly Arg Gly Tyr Gly Ile Arg Tyr Asp Tyr Gly
 145 150 155 160
 Met Phe Lys Gln Asn Ile Val Asp Gly Arg Gln Lys Glu Ser Pro Asp
 165 170 175
 Tyr Trp Leu Glu Tyr Gly Asn Pro Trp Glu Phe Lys Arg His Asn Thr
 180 185 190
 Arg Tyr Lys Val Arg Phe Gly Gly Arg Ile Gln Gln Glu Gly Lys Lys
 195 200 205
 Ser Arg Trp Val Glu Thr Glu Glu Ile Leu Ala Val Ala Tyr Asp Gln
 210 215 220
 Ile Ile Pro Gly Tyr Asp Thr Asp Ala Thr Asn Thr Leu Arg Leu Trp
 225 230 235 240
 Asn Ala Gln Ala Ser Ser Glu Ile Asn Leu Gly Lys Phe Asn Gln Gly
 245 250 255
 Asp Tyr Phe Ala Val Glu Asp Lys Asn His Ser Glu Asn Val Ser
 260 265 270
 Arg Val Leu Tyr Pro Asp Asp Ser Thr Tyr Ser Gly Arg Glu Leu Arg
 275 280 285
 Leu Arg Gln Glu Tyr Phe Leu Val Ser Ala Thr Ile Gln Asp Ile Leu
 290 295 300
 Ser Arg His Tyr Gln Leu His Lys Thr Tyr Ala Asn Leu Ala Glu Lys
 305 310 315 320
 Thr Ala Ile His Leu Asn Asp Thr His Pro Val Leu Ser Ile Pro Glu
 325 330 335
 Leu Met Arg Leu Leu Ile Asp Glu His Lys Phe Ser Trp Asp Asp Ala
 340 345 350
 Phe Glu Val Thr Cys Gln Val Phe Ser Tyr Thr Asn His Thr Leu Met
 355 360 365
 Ser Glu Ala Leu Glu Thr Trp Pro Val Asp Met Leu Gly Lys Ile Leu
 370 375 380
 Pro Arg His Leu Gln Ile Ile Phe Glu Ile Asn Asp Tyr Phe Leu Lys

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<210> 8866
<211> 313
<212> PRT
<213> Enterobacter cloacae
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<400> 8866

Lys Gly Leu His Met Ser Glu Gln Phe Leu Tyr Phe Leu Gln Gln Met
 1 5 10 15
 Phe Asn Gly Val Thr Leu Gly Ser Thr Tyr Ala Leu Ile Ala Ile Gly
 20 25 30
 Tyr Thr Met Val Tyr Gly Ile Ile Gly Met Ile Asn Phe Ala His Gly
 35 40 45
 Glu Val Tyr Met Ile Gly Ser Tyr Val Ser Phe Met Ile Ile Ala Ala
 50 55 60
 Leu Met Met Met Gly Ile Asp Ser Ser Trp Leu Leu Val Ala Ala Gly
 65 70 75 80
 Phe Val Gly Ala Ile Val Ile Ala Ser Ala Tyr Gly Trp Ser Ile Glu
 85 90 95
 Arg Val Ala Tyr Arg Pro Val Arg Ser Ser Lys Arg Leu Ile Ala Leu
 100 105 110
 Ile Ser Ala Ile Gly Met Ser Ile Phe Leu Gln Asn Tyr Val Ser Leu
 115 120 125
 Thr Glu Gly Ser Arg Asp Val Ala Leu Pro Ser Leu Phe Asn Gly Gln
 130 135 140
 Trp Ile Val Gly Ala Ser Glu Asn Phe Ser Ala Ser Val Thr Thr Met
 145 150 155 160
 Gln Leu Val Ile Trp Val Val Thr Phe Ile Ala Met Leu Ala Leu Thr
 165 170 175
 Leu Phe Ile Arg Tyr Ser Arg Met Gly Arg Ala Cys Arg Ala Cys Ala
 180 185 190
 Glu Asp Leu Lys Met Ala Ser Leu Leu Gly Ile Asn Thr Asp Arg Val
 195 200 205
 Ile Ala Leu Thr Phe Val Ile Gly Ala Ala Met Ala Ala Val Ala Gly
 210 215 220
 Val Leu Leu Gly Gln Phe Tyr Gly Val Ile Asn Pro Tyr Ile Gly Phe
 225 230 235 240
 Met Ala Gly Met Lys Ala Phe Thr Ala Ala Val Leu Gly Gly Ile Gly
 245 250 255
 Ser Ile Pro Gly Ala Met Ile Gly Gly Leu Ile Leu Gly Val Ala Glu
 260 265 270
 Ala Leu Ser Ser Ala Tyr Leu Ser Thr Glu Tyr Lys Asp Val Val Ser
 275 280 285
 Phe Ala Leu Leu Ile Leu Val Leu Leu Val Met Pro Thr Gly Ile Leu
 290 295 300
 Gly Arg Pro Glu Val Glu Lys Val
 305 310

<210> 8867

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 8867

Gly Ala Leu Pro Met Ile Glu Asn Arg Arg Gly Leu Thr Ile Phe Ser
 1 5 10 15
 His Thr Leu Leu Ile Leu Gly Ile Leu Val Ile Leu Phe Pro Leu Tyr
 20 25 30
 Val Ala Phe Val Ala Ala Thr Leu Asp Thr Lys Ala Val Phe Asp Thr
 35 40 45
 Pro Met Thr Leu Ile Pro Gly Thr His Leu Phe Glu Asn Met Lys Thr
 50 55 60
 Ile Trp Thr Gln Gly Val Gly Ala Asn Ser Ala Pro Phe Trp Leu Met
 65 70 75 80
 Met Leu Asn Ser Phe Ile Met Ala Phe Gly Ile Thr Val Gly Lys Ile
 85 90 95
 Thr Val Ser Met Leu Ser Ala Phe Ala Ile Val Trp Phe Arg Phe Pro

100 105 110
 Leu Arg Asn Leu Phe Phe Trp Met Ile Phe Ile Thr Leu Met Leu Pro
 115 120 125
 Val Glu Val Arg Ile Phe Pro Thr Val Glu Val Ile Ala Asn Leu Lys
 130 135 140
 Met Leu Asp Ser Tyr Ala Gly Leu Thr Leu Pro Leu Met Ala Ser Ala
 145 150 155 160
 Thr Ala Thr Phe Leu Phe Arg Gln Phe Phe Met Thr Leu Pro Asp Glu
 165 170 175
 Leu Ile Glu Ala Ala Arg Ile Asp Gly Ala Ser Pro Met Arg Phe Phe
 180 185 190
 Arg Asp Ile Val Leu Pro Leu Ser Lys Thr Asn Leu Ala Ala Leu Phe
 195 200 205
 Val Ile Thr Phe Ile Tyr Gly Trp Asn Gln Tyr Leu Trp Pro Leu Leu
 210 215 220
 Ile Val Gln Asp Val Asn Leu Gly Thr Ala Val Ala Gly Ile Lys Gly
 225 230 235 240
 Met Ile Ala Thr Gly Glu Gly Thr Thr Leu Trp Asn Gln Val Met Ala
 245 250 255
 Ala Met Leu Leu Thr Leu Ile Pro Pro Val Val Ile Val Leu Ala Met
 260 265 270
 Gln Arg Ala Phe Val Arg Gly Leu Val Asp Ser Glu Lys
 275 280 285

<210> 8868

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 8868

Asn Arg Thr Thr Ser Met Ser Asn Trp Pro Tyr Pro His Ile Val Ala
 1 5 10 15
 His Arg Gly Gly Lys Leu Ala Pro Glu Asn Thr Leu Ala Ala Ile
 20 25 30
 Asp Val Gly Ala Arg Tyr Gly His Thr Met Ile Glu Phe Asp Ala Lys
 35 40 45
 Leu Ser Lys Asp Gly Glu Ile Phe Leu Leu His Asp Asp Asn Leu Glu
 50 55 60
 Arg Thr Ser Asn Gly Trp Gly Val Ala Gly Glu Leu Pro Trp Arg Asp
 65 70 75 80
 Leu Leu Lys Val Asp Ala Gly Ser Trp Phe Ser Gly Glu Phe Lys Gly
 85 90 95
 Glu Pro Leu Pro Leu Leu Ala Glu Val Ala Asp Arg Cys Arg Gln His
 100 105 110
 Gly Met Met Ala Asn Ile Glu Ile Lys Pro Thr Thr Gly Thr Gly Pro
 115 120 125
 Leu Thr Gly Lys Val Ile Ala Ile Ala Ala Arg Glu Leu Trp Glu Gly
 130 135 140
 Met Thr Ala Pro Leu Leu Ser Ser Phe Asp Ile Asp Ala Leu Glu Ala
 145 150 155 160
 Ala Gln Ala Ala Val Pro Glu Leu Pro Arg Gly Leu Leu Asp Ala
 165 170 175
 Trp Arg Glu Asp Trp Arg Ala Leu Thr Thr Arg Leu Gly Cys Val Ser
 180 185 190
 Ile His Leu Asn His Lys Leu Leu Asp Glu Ala Arg Val Thr Leu Leu
 195 200 205
 Lys Glu Ala Gly Leu His Ile Leu Val Tyr Thr Val Asn Lys Pro Gln
 210 215 220
 Arg Ala Ala Glu Leu Leu Arg Trp Gly Val Asp Ser Ile Cys Thr Asp
 225 230 235 240
 Ala Ile Asp Gln Ile Gly Pro Asn Phe Ile Tyr

<210> 8869
 <211> 594
 <212> PRT
 <213> Enterobacter cloacae

<400> 8869

Ala	Gly	Asn	Met	Gly	Pro	Phe	Thr	Trp	Arg	Thr	Ile	Met	Met	Lys	Pro
1				5					10					15	
Thr	Phe	Leu	Arg	Trp	Val	Ala	Ile	Ala	Ala	Leu	Met	Ala	Gly	Gly	Thr
			20					25					30		
Phe	Thr	Val	Ala	Ala	Asn	Pro	Pro	Ala	Ala	Pro	Pro	Val	Ser	Tyr	Gly
		35					40					45			
Val	Glu	Glu	Asp	Val	Phe	His	Pro	Val	Arg	Ala	Thr	His	Gly	Met	Val
	50					55					60				
Ala	Ser	Val	Asp	Ala	Leu	Ala	Thr	Gln	Val	Gly	Val	Asp	Ile	Leu	Lys
65					70				75					80	
Gln	Gly	Gly	Asn	Ala	Val	Asp	Ala	Ala	Val	Ala	Val	Gly	Tyr	Ala	Leu
			85						90				95		
Ala	Val	Thr	His	Pro	Gln	Ala	Gly	Asn	Leu	Gly	Gly	Gly	Gly	Phe	Met
			100					105					110		
Met	Leu	Arg	Thr	Lys	Asp	Gly	Lys	Thr	Thr	Ala	Ile	Asp	Phe	Arg	Glu
		115					120					125			
Met	Ala	Pro	Asn	Gln	Ala	Ser	Arg	Asp	Met	Phe	Leu	Asp	Asp	Gln	Gly
		130				135					140				
Asn	Pro	Asp	Ser	Lys	Lys	Ser	Leu	Thr	Ser	His	Leu	Ala	Ser	Gly	Thr
145					150					155				160	
Pro	Gly	Thr	Val	Ala	Gly	Phe	Ser	Leu	Ala	Leu	Glu	Lys	Tyr	Gly	Thr
			165					170						175	
Leu	Pro	Leu	Asn	Lys	Val	Val	Gln	Pro	Ala	Ile	Arg	Leu	Ala	Arg	Asp
			180					185					190		
Gly	Phe	Val	Val	Asn	Asp	Ala	Leu	Ala	Asp	Asp	Leu	Lys	Thr	Tyr	Gly
	195						200					205			
Ser	Glu	Val	Ile	Pro	Asn	His	Glu	Asn	Ser	Lys	Ala	Ile	Phe	Trp	Lys
	210					215					220				
Asp	Gly	Glu	Pro	Leu	Lys	Lys	Gly	Asp	Lys	Leu	Val	Gln	Lys	Asn	Leu
225					230					235				240	
Ala	Lys	Ser	Leu	Glu	Leu	Ile	Ala	Glu	Asn	Gly	Pro	Asp	Ala	Phe	Tyr
			245						250					255	
Lys	Gly	Pro	Ile	Ala	Asp	Gln	Ile	Ala	Asp	Glu	Met	Gln	Lys	Asn	Gly
		260					265							270	
Gly	Leu	Ile	Thr	Lys	Ala	Asp	Leu	Ala	Glu	Tyr	Lys	Ala	Val	Glu	Arg
	275						280					285			
Glu	Pro	Ile	Ser	Gly	Thr	Tyr	Arg	Gly	Tyr	Glu	Val	Phe	Ser	Met	Pro
	290					295					300				
Pro	Pro	Ser	Ser	Gly	Gly	Ile	His	Ile	Val	Gln	Ile	Leu	Asn	Ile	Leu
			310							315				320	
Glu	Asn	Phe	Asp	Met	His	Lys	Tyr	Gly	Phe	Gly	Ser	Ala	Asp	Ala	Met
			325						330					335	
Gln	Val	Met	Ala	Glu	Ala	Glu	Lys	Arg	Ala	Tyr	Ala	Asp	Arg	Ser	Glu
		340					345						350		
Tyr	Leu	Gly	Asp	Pro	Asp	Phe	Val	Lys	Val	Pro	Trp	Gln	Ala	Leu	Thr
	355					360						365			
Asn	Lys	Ala	Tyr	Ala	Lys	Ser	Ile	Ala	Asp	Gln	Ile	Asp	Ile	Asn	Lys
	370					375					380				
Ala	Lys	Pro	Ser	Ser	Glu	Ile	Arg	Pro	Gly	Lys	Leu	Ala	Pro	Tyr	Glu
385					390					395				400	
Ser	Asn	Gln	Thr	Thr	His	Phe	Ser	Val	Val	Asp	Lys	Asp	Gly	Asn	Ala
			405						410					415	
Val	Ala	Val	Thr	Tyr	Thr	Leu	Asn	Thr	Thr	Phe	Gly	Thr	Gly	Ile	Val

420 425 430
 Ala Gly Asn Ser Gly Ile Leu Leu Asn Asn Glu Met Asp Asp Phe Ser
 435 440 445
 Ala Lys Pro Gly Val Pro Asn Val Tyr Gly Leu Val Gly Gly Asp Ala
 450 455 460
 Asn Ala Val Gly Pro Lys Lys Arg Pro Leu Ser Ser Met Ser Pro Thr
 465 470 475 480
 Ile Val Val Lys Asp Gly Lys Thr Trp Leu Val Thr Gly Ser Pro Gly
 485 490 495
 Gly Ser Arg Ile Ile Thr Thr Val Leu Gln Met Val Val Asn Ser Ile
 500 505 510
 Asp Phe Gly Met Asn Val Ala Glu Ala Thr Asn Ala Pro Arg Phe His
 515 520 525
 His Gln Trp Leu Pro Asp Glu Leu Arg Val Glu Lys Gly Phe Ser Pro
 530 535 540
 Asp Thr Leu Lys Leu Leu Glu Gln Arg Gly Gln Lys Val Ala Val Lys
 545 550 555 560
 Glu Ala Met Gly Ser Thr Gln Ser Ile Met Val Gly Pro Asp Gly Ala
 565 570 575
 Leu Phe Gly Ala Ser Asp Pro Arg Ser Val Asp Asp Leu Thr Ala Gly
 580 585 590
 Tyr

<210> 8870

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 8870

Ala Met Thr Leu His Cys Ala Phe Ile Gly Phe Gly Lys Ser Thr Thr
 1 5 10 15
 Arg Tyr His Leu Pro Tyr Val Leu Asn Arg Lys Glu Thr Trp His Val
 20 25 30
 Ala His Ile Tyr Arg Arg Ser Ala Lys Pro Glu Glu Gln Ser Pro Gln
 35 40 45
 Tyr Ser His Ile His Phe Thr Ser Asp Leu Asp Glu Val Leu Asn Asp
 50 55 60
 Pro Gln Val Lys Leu Val Val Val Cys Thr His Ala Asp Ser His Phe
 65 70 75 80
 Asp Tyr Ala Lys Arg Ala Leu Glu Ala Gly Lys Asn Val Leu Val Glu
 85 90 95
 Lys Pro Phe Thr Pro Thr Ile Ala Glu Ala Lys Glu Leu Phe Ala Leu
 100 105 110
 Ala Lys Ser Lys Gly Leu Thr Val Thr Pro Tyr Gln Asn Arg Arg Phe
 115 120 125
 Asp Ser Cys Phe Leu Thr Ala Lys Lys Ala Ile Glu Ser Gly Lys Leu
 130 135 140
 Gly Glu Ile Val Glu Ile Glu Ser His Phe Asp Tyr Tyr Arg Pro Val
 145 150 155 160
 Ala Glu Thr Gln Pro Gly Leu Pro Gln Asp Gly Ser Phe Tyr Gly Leu
 165 170 175
 Gly Val His Thr Met Asp Gln Ile Ile Ser Leu Phe Gly Arg Pro Asp
 180 185 190
 His Val Ala Tyr Asp Ile Arg Ser Leu Arg Asn Lys Ala Asn Pro Asp
 195 200 205
 Asp Thr Phe Glu Ala Gln Leu Phe Tyr Gly Asp Leu Lys Ala Ile Val
 210 215 220
 Lys Thr Ser His Leu Val Lys Ile Asp Tyr Pro Lys Phe Ile Val His
 225 230 235 240
 Gly Lys Lys Gly Ser Phe Ile Lys Tyr Gly Ile Asp Gln Gln Glu Thr

245 250 255
 Ser Leu Lys Ala Asn Ile Met Pro Gly Glu Pro Gly Phe Ala Ala Asp
 260 265 270
 Asp Ser Val Gly Val Leu Glu Tyr Val Asn Asp Glu Gly Val Thr Val
 275 280 285
 Arg Glu Glu Leu Lys Pro Glu Thr Gly Asp Tyr Gly Arg Val Tyr Asp
 290 295 300
 Ala Leu Phe Glu Thr Leu Thr Asn Gly Thr Ala Asn Tyr Val Lys Glu
 305 310 315 320
 Ser Asp Val Leu Thr Asn Leu Glu Ile Leu Glu Arg Ala Phe Glu Gln
 325 330 335
 Ala Ser Pro Ala Thr Val Thr Leu Ala Lys
 340 345

<210> 8871

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 8871

Ala Lys Thr Ala Pro Leu Arg Leu Phe Thr Ile Phe Glu Gln Arg Ser
 1 5 10 15
 Gln Phe Ser Pro Ser Met Ile Pro Gly Arg Leu Arg Pro His Leu Leu
 20 25 30
 His Arg Asn Glu Leu Arg Val Lys Thr Met Ile Tyr Leu Arg Lys Ala
 35 40 45
 Asn Glu Arg Gly His Ala Asn His Gly Trp Leu Asp Ser Trp His Ser
 50 55 60
 Phe Ser Phe Ala Asp Tyr Tyr Asp Pro Asn Phe Met Gly Phe Ser Ala
 65 70 75 80
 Leu Arg Val Ile Asn Asp Asp Val Ile Asp Ala Gly Gln Gly Phe Gly
 85 90 95
 Thr His Pro His Lys Asp Met Glu Ile Leu Thr Tyr Val Leu Glu Gly
 100 105 110
 Ala Val Glu His Gln Asp Ser Met Gly Asn Lys Glu Gln Val Pro Ala
 115 120 125
 Gly Glu Phe Gln Ile Met Ser Ala Gly Thr Gly Val Arg His Ser Glu
 130 135 140
 Tyr Asn Pro Ser Lys Thr Glu Lys Leu His Leu Tyr Gln Ile Trp Ile
 145 150 155 160
 Ile Pro Glu Glu Thr Gly Ile Thr Pro Arg Tyr Glu Gln Arg Arg Phe
 165 170 175
 Asp Ala Lys Gln Gly Lys Gln Leu Val Leu Ser Pro Asp Ala Arg Glu
 180 185 190
 Gly Ser Leu Lys Val His Gln Asp Met Glu Leu Tyr Arg Trp Ala Leu
 195 200 205
 Ala Lys Asp Glu Gln Ser Val His Gln Ile Ala Ala Asn Arg Arg Val
 210 215 220
 Trp Ile Gln Val Val Lys Gly Glu Val Ser Ile Asn Gly Thr Lys Ala
 225 230 235 240
 Thr Thr Ala Asp Gly Leu Ala Val Trp Asp Glu Gln Ala Leu Ser Val
 245 250 255
 His Ala Asp Ser Glu Ser Glu Ile Leu Leu Phe Asp Leu Pro Pro Val
 260 265 270

<210> 8872

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 8872

Cys Glu Ala Tyr Pro Ser Ser Ile Leu Ala Cys Thr Ile Ser Thr His
 1 5 10 15
 Pro Leu Gln Glu Lys Asn Ala Met Lys Asn Val Gly Phe Ile Gly Trp
 20 25 30
 Arg Gly Met Val Gly Ser Val Leu Met Gln Arg Met Val Glu Glu Arg
 35 40 45
 Asp Phe Asp Ala Ile Arg Pro Val Phe Phe Ser Thr Ser Gln Leu Gly
 50 55 60
 Gln Ala Ala Pro Ser Phe Gly Gly Thr Thr Gly Thr Leu Gln Asp Ala
 65 70 75 80
 Tyr Asp Leu Glu Ala Leu Lys Ala Leu Asp Ile Ile Val Thr Cys Gln
 85 90 95
 Gly Gly Asp Tyr Thr Asn Glu Ile Tyr Pro Lys Leu Arg Glu Ser Gly
 100 105 110
 Trp Gln Gly Tyr Trp Ile Asp Ala Ala Ser Ser Leu Arg Met Lys Asp
 115 120 125
 Asp Ala Ile Ile Ile Leu Asp Pro Val Asn Gln Gly Val Ile Thr Asp
 130 135 140
 Gly Leu Asn Asn Gly Val Lys Thr Phe Val Gly Gly Asn Cys Thr Val
 145 150 155 160
 Ser Leu Met Leu Met Ser Leu Gly Gly Leu Phe Ala Gln Asp Leu Val
 165 170 175
 Glu Trp Val Ser Val Ala Thr Tyr Gln Ala Ala Ser Gly Gly Gly Ala
 180 185 190
 Arg His Met Arg Glu Glu Leu Leu Thr Gln Met Gly Gln Leu His Gln Ser
 195 200 205
 Val Ala Ala Glu Leu Ala Asp Pro Ala Ser Ala Ile Leu Asp Ile Glu
 210 215 220
 Arg Lys Val Thr Gln Leu Thr Arg Ser Gly Glu Leu Pro Val Asp Asn
 225 230 235 240
 Phe Gly Val Pro Leu Ala Gly Gly Leu Ile Pro Trp Ile Asp Lys Gln
 245 250 255
 Leu Asp Asn Gly Gln Thr Arg Glu Glu Trp Lys Gly Gln Ala Glu Thr
 260 265 270
 Asn Lys Ile Leu Gly Thr Ala Asn Thr Ile Pro Val Asp Gly Leu Cys
 275 280 285
 Val Arg Ile Gly Ala Leu Arg Cys His Ser Gln Ala Phe Thr Ile Lys
 290 295 300
 Leu Lys Lys Asp Val Ser Ile Pro Thr Val Glu Glu Leu Leu Ala Ala
 305 310 315 320
 His Asn Pro Trp Ala Lys Val Val Pro Asn Asp Arg Asp Ile Thr Met
 325 330 335
 Arg Glu Leu Thr Pro Ala Ala Val Thr Gly Thr Leu Thr Thr Pro Val
 340 345 350
 Gly Arg Leu Arg Lys Leu Asn Met Gly Pro Glu Tyr Leu Ser Ala Phe
 355 360 365
 Thr Val Gly Asp Gln Leu Leu Trp Gly Ala Ala Glu Pro Leu Arg Arg
 370 375 380
 Met Leu Arg Gln Leu Ala
 385 390

<210> 8873

<211> 458

<212> FRT

<213> *Enterobacter cloacae*

<400> 8873

Ser Gly Cys Tyr Gly Cys Leu Ala Arg Ala Cys Ala Arg Ser Val Arg
 1 5 10 15

```

Ile Pro Lys Met Ile Lys Lys Glu Leu Val Met Val Arg Leu Glu Lys
20 25 30
Asn Asp Pro Leu Met Leu Ala Arg Gln Leu Pro Leu Lys Thr Val Ala
35 40 45
Leu Ile Leu Ala Gly Gly Arg Gly Thr Arg Leu Lys Asp Leu Thr Ile
50 55 60
Lys Arg Ala Lys Pro Ala Val His Phe Gly Gly Lys Phe Arg Ile Ile
65 70 75 80
Asp Phe Ala Leu Ser Asn Cys Leu Asn Ser Gly Ile Arg Arg Ile Gly
85 90 95
Val Ile Thr Gln Tyr Gln Ser His Thr Leu Val Gln His Ile Gln Arg
100 105 110
Gly Trp Ser Phe Phe Ser Glu Glu Met Asn Glu Phe Val Asp Leu Leu
115 120 125
Pro Ala Gln Gln Arg Val His Gly Glu Asn Trp Tyr Arg Gly Thr Ala
130 135 140
Asp Ala Val Thr Gln Asn Leu Asp Ile Ile Arg Arg Tyr Asn Ala Glu
145 150 155 160
Tyr Ile Val Ile Leu Ala Gly Asp His Ile Tyr Lys Gln Asp Tyr Ser
165 170 175
His Met Leu Ile Asp His Val Glu Lys Gly Ala Arg Cys Thr Val Ala
180 185 190
Cys Leu Pro Val Pro Val Ala Glu Ala Thr Ala Phe Gly Val Met His
195 200 205
Val Asp Gly Asp Asp Lys Ile Ile Asp Phe Val Glu Lys Pro Ala Asn
210 215 220
Pro Pro Thr Met Pro Gly Asp Asp Thr Lys Ser Leu Ala Ser Met Gly
225 230 235 240
Ile Tyr Val Phe Asp Ala Asp Tyr Leu Tyr Glu Leu Leu Glu Glu Asp
245 250 255
Asp Lys Asp Glu Asn Ser Ser His Asp Phe Gly Lys Asp Ile Ile Pro
260 265 270
Lys Ile Thr Lys Ala Gly Met Ala Tyr Ala His Pro Phe Pro Leu Ser
275 280 285
Cys Val Gln Ser Asp Pro Asn Ala Glu Pro Tyr Trp Arg Asp Val Gly
290 295 300
Thr Leu Glu Ala Tyr Trp Lys Ala Asn Leu Asp Leu Ala Ser Val Thr
305 310 315 320
Pro Glu Leu Asp Met Tyr Asp Gln Asn Trp Pro Ile Arg Thr His Met
325 330 335
Glu Ser Leu Pro Pro Ala Lys Phe Val Gln Asp Arg Ser Gly Ser His
340 345 350
Gly Met Thr Leu Asn Ser Leu Val Ser Gly Gly Cys Ile Ile Ser Gly
355 360 365
Ser Val Val Val Gln Ser Val Leu Phe Pro Arg Val Arg Ile Asn Ser
370 375 380
Phe Cys Asn Ile Asp Ser Ala Val Leu Leu Pro Asp Val Trp Val Gly
385 390 395 400
Arg Ser Cys Arg Leu Arg Arg Cys Val Ile Asp Arg Ala Cys Val Ile
405 410 415
Pro Glu Gly Met Val Ile Gly Glu Asn Ala Glu Glu Asp Ala Arg Arg
420 425 430
Phe Tyr Arg Ser Glu Glu Gly Ile Val Leu Val Thr Arg Glu Met Leu
435 440 445
Arg Lys Leu Gln Ile Lys Gln Glu Arg
450 455

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<210> 8874

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 8874

```

Arg Arg Pro Pro Trp Ile Ser Leu Glu Leu Ala Asp Asp Val Ala Gln
1      5      10      15
Ala Arg Ser Leu Ala Ser Ser Ile Ser Thr Asp Lys Pro Arg Pro Ala
20      25      30
Ala Ser Thr Ala Ile Pro Ala Pro Leu Met Pro Pro Ile Thr Ile
35      40      45
Arg Ser Leu Val Ser Ile Thr Pro Ser Cys Thr Phe Val Lys Ala Gln
50      55      60
Lys Cys Ser Ile Ser Leu Ile Ile Ala Lys Glu Arg Ala Phe Gly Asn
65      70      75      80
Ile Lys Lys Thr Ile
85

```

<210> 8875

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 8875

```

Arg Gly Pro Tyr Ser Pro Leu Lys Pro Gly Ser Gln Leu Leu Lys Asn
1      5      10      15
His Arg Tyr Ala Gly Met Arg Ile Asn Leu Arg Glu Ala Ser Lys Glu
20      25      30
Glu Ile Thr Met Lys Arg Leu Leu Ile Leu Thr Ala Leu Leu Pro Phe
35      40      45
Ala Ala Leu Ala Gln Pro Ile Asn Thr Leu Asn Asn Pro Asn Gln Pro
50      55      60
Gly Tyr Val Ile Pro Ser Gln Gln Arg Met Gln Thr Glu Met Met Ser
65      70      75      80
Gln Gln Gln Gln Gln Lys Gly Met Leu Asn Gln Gln Leu Lys Thr Gln
85      90      95
Thr Gln Val Gln Gln Gln His Leu Gln Asn Gln Met Asn Thr Asn Thr
100      105      110
Gln Arg Val Gln Gln Gly Gln Met Leu Glu Gln Pro Leu Pro Asn Thr
115      120      125
Asn Gly Gly Met Leu Gly Gly Gly Val Ser Gln Ser Ser Gly Gln Gln
130      135      140
His Met Leu Pro Thr Gln Gln Asn Gly Ser Met Leu Asn Lys
145      150      155

```

<210> 8876

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 8876

```

Ser Thr Ala Pro Val Ser Cys Lys Ile Leu Pro Asn Ile Ala Pro Ser
1      5      10      15
Ala Thr Thr Met Ala Arg Lys Pro Ser Val Pro Pro Ile Pro Phe Ser
20      25      30
Ile Val Ala Ala Ile Leu Ser Ser Gly Met Pro Glu Lys Arg Pro Ala
35      40      45
Pro Ile Glu Thr Thr Ile Lys Ala Thr Lys Ala Cys Ile Arg Ala Phe
50      55      60
Ile Thr Lys Asn Ser Ser Ser Asn Thr Glu Pro Thr Ala Val Lys Thr
65      70      75      80
Ser Val Asn Val Leu Lys Thr Tyr Cys Leu Leu Ile Thr Ser Met
85      90      95
Val Leu Ala Thr Thr Pro Ser Ser Gly

```

100

105

<210> 8877

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 8877

```

Leu Thr Glu Ala Gln Gly Met Ser Glu Ile Val Ile Arg His Ala Glu
1      5      10      15
Pro Lys Asp Tyr Asp Ala Ile Arg Gln Ile His Ala Gln Pro Glu Val
20      25      30
Tyr His Asn Thr Leu Gln Val Pro His Pro Ser Met Glu Met Trp Gln
35      40      45
Met Arg Leu Gly Glu Gln Pro Gly Ile Lys Gln Leu Val Ala Cys Ile
50      55      60
Asp Asp Ile Val Val Gly His Leu Thr Ile Asp Val Ala Gln Arg Pro
65      70      75      80
Arg Arg Ser His Val Ala Asp Phe Gly Ile Cys Val Gly Ala Glu Trp
85      90      95
His Asn Arg Gly Val Ala Ser Ala Leu Ile Arg Thr Met Ile Asp Met
100     105     110
Cys Asp Asn Trp Leu Arg Val Asp Arg Ile Glu Leu Thr Val Phe Val
115     120     125
Asp Asn Glu Pro Ala Ile Ala Val Tyr Lys Lys His Gly Phe Glu Ile
130     135     140
Glu Gly Thr Gly Arg Arg Tyr Ala Leu Arg Asn Gly Glu Tyr Val Asp
145     150     155     160
Ala Tyr Tyr Met Ala Arg Met Lys
165

```

<210> 8878

<211> 512

<212> PRT

<213> Enterobacter cloacae

<400> 8878

```

Ala Leu Thr Lys Val His Glu Gly Val Met Glu Thr Lys Asp Leu Ile
1      5      10      15
Val Ile Gly Gly Ile Asn Gly Ala Gly Ile Ala Val Asp Ala Ala
20      25      30
Gly Arg Gly Leu Ser Val Leu Met Leu Glu Ala Asn Asp Leu Ala Cys
35      40      45
Ala Thr Ser Ser Ala Ser Ser Lys Leu Ile His Gly Gly Leu Arg Tyr
50      55      60
Leu Glu His Tyr Glu Phe Arg Leu Val Ser Glu Ala Leu Ala Glu Arg
65      70      75      80
Glu Val Leu Leu Lys Met Ala Pro His Leu Ala Ile Pro Met Arg Phe
85      90      95
Arg Leu Pro His Arg Pro His Leu Arg Pro Ala Trp Met Ile Arg Ile
100     105     110
Gly Leu Phe Met Tyr Asp His Leu Gly Lys Arg Thr Ser Leu Pro Gly
115     120     125
Ser Thr Gly Leu Arg Phe Gly Ser Glu Ser Val Leu Lys Pro Glu Ile
130     135     140
Val Arg Gly Phe Glu Tyr Ser Asp Cys Trp Val Asp Asp Ala Arg Leu
145     150     155     160
Val Leu Ala Asn Ala Gln Met Val Glu Lys Lys Gly Gly Glu Val Lys
165     170     175
Thr Arg Thr Arg Ala Thr Ala Ala Arg Arg Glu Asn Gly Leu Trp Ile
180     185     190

```

Val Glu Ala Glu Asp Val Asp Thr Gly Glu Lys Phe Ser Trp Lys Ala
 195 200 205
 Arg Gly Leu Val Asn Ala Thr Gly Pro Trp Val Lys Gln Phe Phe Asp
 210 215 220
 Asp Gly Met His Leu Pro Ser Pro Tyr Gly Ile Arg Leu Ile Lys Gly
 225 230 235 240
 Ser His Ile Val Val Pro Arg Val His Thr Gln Lys Gln Ala Tyr Ile
 245 250 255
 Leu Gln Asn Glu Asp Lys Arg Ile Val Phe Val Ile Pro Trp Met Asp
 260 265 270
 Glu Phe Ser Ile Ile Gly Thr Thr Asp Val Glu Tyr Lys Gly Asp Pro
 275 280 285
 Lys Asn Val Glu Ile Asp Glu Ser Glu Val Ser Tyr Leu Leu Lys Val
 290 295 300
 Tyr Asn Ala His Phe Lys Lys Gln Leu Ala Arg Asp Asp Val Val Trp
 305 310 315 320
 Thr Tyr Ser Gly Val Arg Pro Leu Cys Asp Asp Glu Ser Asp Ser Pro
 325 330 335
 Gln Ala Ile Thr Arg Asp Tyr Thr Leu Asp Ile His Asp Val Asp Gly
 340 345 350
 Gln Ala Pro Leu Leu Ser Val Phe Gly Gly Lys Leu Thr Thr Tyr Arg
 355 360 365
 Lys Leu Ala Glu His Ala Leu Glu Lys Leu Ala Pro Tyr Tyr Lys Gly
 370 375 380
 Ile Gly Pro Ala Trp Thr Lys Gly Ala Val Leu Pro Gly Gly Asp Ile
 385 390 395 400
 Gly Asp Asn Arg Asp Asp Tyr Ala Ala Lys Leu Arg Arg Arg Phe Pro
 405 410 415
 Phe Ile Thr Glu Gly Met Ala Arg His Tyr Ala Arg Thr Tyr Gly Ser
 420 425 430
 Asn Thr Glu Leu Phe Leu Gly Asp Ala Lys Glu Ile Ala Asp Leu Gly
 435 440 445
 Glu His Phe Gly His Glu Leu Tyr Glu Ala Glu Leu Arg Tyr Leu Val
 450 455 460
 Glu His Glu Trp Val Arg Arg Leu Asp Asp Ala Ile Trp Arg Arg Thr
 465 470 475 480
 Lys Glu Gly Met Trp Leu Asn Ala Glu Gln Gln Ser Arg Val Ala Gln
 485 490 495
 Trp Leu Ala Gln His Ala Gly Lys Arg Glu Leu Ser Leu Ala Ser
 500 505 510

<210> 8879

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 8879

Phe Lys Met Ser Glu Ile Ile Ser Ala Ala Val Leu Leu Ile Leu Ile
 1 5 10 15
 Met Asp Pro Leu Gly Asn Leu Pro Ile Phe Met Ser Val Leu Lys His
 20 25 30
 Thr Glu Pro Lys Arg Arg Arg Ala Ile Met Ile Arg Glu Leu Leu Ile
 35 40 45
 Ala Leu Leu Val Met Phe Ile Phe Leu Phe Ala Gly Glu Lys Ile Leu
 50 55 60
 Ala Phe Leu Asn Leu Arg Ala Glu Thr Val Ser Ile Ser Gly Gly Ile
 65 70 75 80
 Ile Leu Phe Leu Ile Ala Ile Lys Met Ile Phe Pro Ser Ala Glu Gly
 85 90 95
 Ser Ser Ser Gly Leu Pro Ala Gly Glu Glu Pro Phe Ile Val Pro Leu
 100 105 110


```

Ala Ile Pro Leu Val Ala Gly Pro Thr Ile Leu Ala Thr Leu Met Leu
    115      120      125
Leu Ser His Gln Tyr Pro Asn Gln Met Ser His Leu Val Ile Ala Leu
    130      135      140
Leu Ile Ala Trp Gly Gly Thr Phe Ile Ile Leu Leu Gln Ser Ser Leu
    145      150      155      160
Phe Leu Arg Leu Leu Gly Glu Lys Gly Val Asn Ala Leu Glu Arg Leu
    165      170      175
Met Gly Leu Ile Leu Val Met Met Ala Thr Gln Met Phe Leu Asp Gly
    180      185      190
Ile Arg Ala Trp Met Lys Gly
    195      200

```

<210> 8880

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 8880

```

Gly Leu Ser Gln Arg Cys Ser Phe Gln Pro Pro Gly Glu Asp Pro Tyr
1      5      10      15
Asn Leu Asn Asp Leu Tyr Ser Asp Lys Ile Ser His Trp Ile Lys Met
    20      25      30
Lys Thr Ile Glu Val Asp Asp Glu Leu Tyr Gln Tyr Ile Ala Ser Gln
    35      40      45
Thr Arg His Ile Gly Glu Ser Ala Ser Asp Ile Leu Arg Arg Met Leu
    50      55      60
Lys Ile Ser Ala Ala Ser Gln Pro Thr Pro Val Thr Lys Asp Val Val
    65      70      75      80
Ser Gln Pro Ser Val Val Ala Gln Val Lys Pro Ala Val Met Pro Ala
    85      90      95
Lys Asp Lys Val Arg Ala Met Arg Glu Leu Leu Leu Ser Asp Glu Tyr
    100      105      110
Ala Glu Gln Lys Lys Ala Val Asn Arg Phe Met Leu Val Leu Ser Thr
    115      120      125
Leu Tyr Ser Leu Asp Asn Asn Ala Phe Ala Glu Ala Thr Glu Ser Leu
    130      135      140
His Gly Arg Thr Arg Val Tyr Phe Ala Gly Asp Glu Gln Thr Leu Leu
    145      150      155      160
Gln Asn Gly Asn Gln Thr Lys Pro Lys His Val Pro Gly Thr Pro Tyr
    165      170      175
Trp Val Ile Thr Asn Thr Asn Thr Gly Arg Lys Cys Ser Met Ile Glu
    180      185      190
His Ile Met Gln Ser Met Gln Phe Pro Ala Glu Leu Ile Glu Lys Val
    195      200      205
Cys Gly Thr Ile
    210

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<210> 8881

<211> 555

<212> PRT

<213> Enterobacter cloacae

<400> 8881

```

Pro Leu His Gln Lys Asp Gln Ala Met Ala Asn His Ser Arg Ala Gly
1      5      10      15
Gln Pro Ala Gln Gln Arg Asp Leu Ile Asn Val Ala Gln Leu Thr Ala
    20      25      30
Gln Tyr Tyr Val Leu Lys Pro Val Val Gly Asn Ala Gln His Ala Val
    35      40      45
Lys Phe Gly Thr Ser Gly His Arg Gly Ser Ala Ala Arg His Ser Phe

```

	50						55						60					
Asn	Glu	Pro	His	Ile	Leu	Ala	Ile	Ala	Gln	Ala	Ile	Ala	Glu	Glu	Arg			
65					70					75					80			
Ala	Lys	Asn	Gly	Val	Thr	Gly	Pro	Cys	Tyr	Val	Gly	Lys	Asp	Thr	His			
				85					90					95				
Ala	Leu	Ser	Glu	Pro	Ala	Phe	Ile	Ser	Val	Leu	Glu	Val	Leu	Ala	Ala			
			100					105					110					
Asn	Gly	Val	Asp	Val	Ile	Val	Gln	Glu	Asn	Asn	Gly	Phe	Thr	Pro	Thr			
			115				120					125						
Pro	Ala	Val	Ser	Asn	Ala	Ile	Leu	Val	His	Asn	Lys	Lys	Gly	Gly	Ala			
					135						140							
Gln	Ala	Asp	Gly	Ile	Val	Ile	Thr	Pro	Ser	His	Asn	Pro	Pro	Glu	Asp			
145					150					155					160			
Gly	Gly	Ile	Lys	Tyr	Asn	Pro	Pro	Asn	Gly	Gly	Pro	Ala	Asp	Thr	Asn			
				165					170					175				
Val	Thr	Lys	Val	Val	Glu	Asp	Arg	Ala	Ala	Asn	Leu	Leu	Ala	Ala	Gly			
				180					185					190				
Leu	Asn	Gly	Val	Lys	Arg	Ile	Ser	Leu	Asp	Glu	Ala	Met	Ala	Ser	Gly			
			195				200					205						
His	Val	Lys	Glu	Gln	Asp	Leu	Val	Gln	Pro	Phe	Val	Glu	Gly	Leu	Ala			
			210				215					220						
Asp	Ile	Val	Asp	Met	Ala	Ala	Ile	Gln	Lys	Ala	Gly	Leu	Lys	Leu	Gly			
225					230					235				240				
Val	Asp	Pro	Leu	Gly	Gly	Ser	Gly	Ile	Glu	Tyr	Trp	Lys	Arg	Ile	Ala			
				245					250					255				
Glu	His	Tyr	Lys	Leu	Asp	Leu	Thr	Ile	Val	Asn	Asp	His	Val	Asp	Gln			
				260				265					270					
Thr	Phe	Arg	Phe	Met	His	Leu	Asp	Lys	Asp	Gly	Ala	Ile	Arg	Met	Asp			
			275				280						285					
Cys	Ser	Ser	Glu	Cys	Ala	Met	Ala	Gly	Leu	Leu	Ala	Leu	Arg	Asp	Lys			
					295							300						
Phe	Asp	Leu	Ala	Phe	Ala	Asn	Asp	Pro	Asp	Tyr	Asp	Arg	His	Gly	Ile			
305					310					315				320				
Val	Thr	Pro	Ala	Gly	Leu	Met	Asn	Pro	Asn	His	Tyr	Leu	Ala	Val	Ala			
				325					330					335				
Ile	Asn	Tyr	Leu	Phe	Gln	His	Arg	Pro	Gln	Trp	Gly	Lys	Glu	Val	Ala			
			340					345					350					
Val	Gly	Lys	Thr	Leu	Val	Ser	Ser	Ala	Met	Ile	Asp	Arg	Val	Val	Asp			
			355				360					365						
Ala	Leu	Gly	Arg	Lys	Leu	Val	Glu	Val	Pro	Val	Gly	Phe	Lys	Trp	Phe			
			370			375					380							
Val	Asp	Gly	Leu	His	Asp	Gly	Ser	Phe	Gly	Phe	Gly	Gly	Glu	Glu	Ser			
385					390					395				400				
Ala	Gly	Ala	Ser	Phe	Leu	Arg	Phe	Asp	Gly	Thr	Pro	Trp	Ser	Thr	Asp			
				405					410									

Glu Ile Val Ser Glu Val Leu Lys Asn Ala
545 550 555

<210> 8882

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 8882

Val Val Lys Leu Gln Thr Lys Arg Tyr Tyr Phe Asn Gln Val Thr Asp
1 5 10 15
Phe Thr Phe Ser Gly Asp Gly Phe Arg Pro Thr Thr Gly Glu Lys Asn
20 25 30
Met Asp Leu Tyr Lys Glu Phe Pro Ala His Ile Ile Phe Met Arg Arg
35 40 45
Thr Phe Ala Val Val Ala Gly Val Leu Ala Leu Pro Val Met Leu Phe
50 55 60
Trp Lys Asp Arg Ala Arg Phe Tyr Ser Tyr Leu His Arg Val Trp Ala
65 70 75 80
Lys Thr Ser Glu Lys Pro Val Trp Met Asp Gln Ala Glu Lys Ala Thr
85 90 95
Cys Asp Phe Tyr
100

<210> 8883

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 8883

Ala Ala Pro Glu Arg Thr Gly Gly Gln Arg Gly Asp Trp Trp Arg Ala
1 5 10 15
Asn Gly Asn Leu Ser Ala Arg Phe Thr Gly Arg Leu Ala Ala Asp Trp
20 25 30
Ala His Val His Ala Val Ile Arg Thr Arg Pro Gly Arg Ala His Thr
35 40 45
Pro Ala Ser Gly Gly Tyr Ala Ala Leu Tyr Pro Ala Glu Gly Gly Ser
50 55 60
Met Leu Thr Leu Ile Arg Ala Gly Leu Tyr Thr Ser Val Gln Asp Ala
65 70 75 80
Gly Arg Phe Gly Leu Arg Gln Ser Gly Val Ser Tyr Cys Gly Ala Leu
85 90 95
Asp Arg Pro Ser Leu Glu Ile Ala Asn Leu Leu Val Gly Asn Ala Gly
100 105 110
Ser Thr Ala Ala Leu Glu Ile Thr Leu Gly Gln Cys Val Ile Glu Phe
115 120 125
Gly Gln Glu Ala Trp Phe Ala Leu Thr Gly Ala Gly Cys Asp Ala Thr
130 135 140
Leu Asp Gly Lys Ala Val Trp Thr Gly Trp Arg Leu Arg Ala Lys Ala
145 150 155 160
Gly Gln Arg Leu Thr Leu Lys Arg Pro Leu His Gly Val Arg Ser Tyr
165 170 175
Leu Ala Val Ala Gly Gly Ile Asp Val Pro Glu Val Leu Gly Ser Ser
180 185 190
Ser Thr Asp Gln Lys Ala Gly Met Gly Gly His Glu Gly Arg Leu Leu
195 200 205
Arg Asp Gly Asp Arg Leu Arg Ile Lys Thr Ser Thr Arg His Phe Thr
210 215 220
Thr Thr Gln Gly Val Lys Gln Leu Leu Trp Gly Asn Val Ile Arg Ala
225 230 235 240
Leu Pro Gly Pro Glu Tyr Gln Glu Phe Asp Glu Ala Ala Lys Glu Ser

245 250 255
 Phe Trp Arg Ser Pro Trp Lys Ile Ser Pro Gln Ser Asn Arg Met Gly
 260 265 270
 Tyr Arg Leu Gln Gly Gln Pro Leu Thr Arg Thr Thr Asp Arg Glu Leu
 275 280 285
 Leu Ser His Gly Leu Leu Pro Gly Val Ile Gln Val Pro Gly Asn Gly
 290 295 300
 Gln Pro Ile Val Leu Met Asn Asp Ala Gln Thr Thr Gly Gly Tyr Pro
 305 310 315 320
 Arg Ile Ala Cys Ile Ile Glu Ala Asp Arg Tyr His Leu Ala Gln Ile
 325 330 335
 Pro Leu Gly Gln Pro Ile His Phe Val Gln Cys Ser Leu Glu Glu Ala
 340 345 350
 Leu Lys Ala Arg Gln Asp Gln Gln Arg Tyr Leu Glu Gln Leu Ala Trp
 355 360 365
 Arg Leu Asp Gly Lys Asp
 370 375

<210> 8884

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 8884

His Leu Glu Ala Met Phe Cys Met Thr Arg Ser Tyr Arg Lys Gly Thr
 1 5 10 15
 Leu Ser Asp Pro His Arg Ser Pro Glu Glu Gly Asn Asn Lys Asn Ser
 20 25 30
 Met Trp Ala Leu Phe Met Ile Arg Asn Val Lys Lys Gln Arg Pro Val
 35 40 45
 Asn Leu Asp Leu Lys Thr Ile Arg Phe Pro Val Thr Ala Ile Ala Ser
 50 55 60
 Ile Leu His Arg Val Ser Gly Val Ile Thr Phe Val Ala Val Gly Ile
 65 70 75 80
 Leu Leu Trp Leu Leu Gly Thr Ser Leu Ser Ser Pro Glu Gly Phe Leu
 85 90 95
 Gln Ala Ser Ala Ile Met Asn Ser Phe Phe Val Lys Phe Ile Met Trp
 100 105 110
 Gly Ile Leu Thr Ala Leu Ala Tyr His Val Val Gly Gly Val Arg His
 115 120 125
 Met Leu Met Asp Phe Gly Tyr Leu Glu Glu Thr Phe Glu Ala Gly Lys
 130 135 140
 Arg Thr Ala Asn Ile Ser Phe Val Ile Thr Val Val Leu Ser Leu Leu
 145 150 155 160
 Ala Gly Val Leu Val Trp
 165

<210> 8885

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 8885

Trp Thr Ile Ala Arg Ser Phe Met Pro Thr His Leu Val Trp Phe Arg
 1 5 10 15
 Ala Asp Leu Arg Ile His Asp Asn Phe Ala Leu Ala Ala Cys Arg
 20 25 30
 Ala Lys Asp Ala Asn Val Leu Ala Leu Phe Ile Ala Thr Pro Glu Gln
 35 40 45
 Trp Arg Gln His Asp Met Ala Pro Arg Gln Ala Ala Leu Leu Ser Ala
 50 55 60

Tyr Leu Asn Asp Leu Gln His Ser Leu Ala Glu Lys Gly Ile Pro Leu
 65 70 75 80
 Ile Tyr Lys Glu Ala His Asp Phe Ala Ala Gln Arg Gln Thr Val Gln
 85 90 95
 Ala Ile Cys Gln Gln Tyr Ala Val Thr His Leu Tyr Tyr Asn Tyr Gln
 100 105 110
 Tyr Glu Phe Asn Glu Gln Gln Arg Asp Arg Gln Leu Glu Lys Ser Leu
 115 120 125
 Ala Gly Val Val Cys Glu Gly Phe Asp Asp Ser Val Met Leu Ala Pro
 130 135 140
 Gly Ser Val Met Thr Gly Ser His Glu Met Tyr Lys Val Phe Thr Pro
 145 150 155 160
 Phe Lys Asn Ala Phe Ile Lys Arg Leu Lys Glu Gly Leu Pro Glu Cys
 165 170 175
 Val Thr Ala Pro Ser Val Arg Gly Glu Thr Ile Thr Asp Leu Pro Ala
 180 185 190
 Ile Arg Leu Asn Tyr Pro Gln Gln Ser Phe Asp Glu Thr Val Phe Pro
 195 200 205
 Ala Ser Glu Lys Ala Ala Ile Ala Arg Leu Arg Gln Phe Cys Ala Gln
 210 215 220
 Gly Ala Val Glu Tyr Glu Ala Arg Arg Asp Phe Pro Ala Ile Glu Gly
 225 230 235 240
 Thr Ser Arg Leu Ser Ala Cys Leu Ala Leu Gly Ala Leu Ser Pro Arg
 245 250 255
 Gln Cys Leu His Arg Leu Leu Ala Glu Gln Pro Gln Ala Leu Asp Gly
 260 265 270
 Gly Ala Gly Ala Val Trp Leu Asn Glu Leu Ile Trp Arg Glu Phe Tyr
 275 280 285
 Arg His Leu Met Thr Tyr His Pro Asp Leu Cys Lys His Arg Pro Phe
 290 295 300
 Ile Arg Trp Thr Glu Gln Val Gln Trp Gln Ser Asn Glu Lys Leu Leu
 305 310 315 320
 Lys Ala Trp Gln His Gly Leu Thr Gly Phe Pro Ile Val Asp Ala Ala
 325 330 335
 Met Arg Gln Leu Asn Glu Thr Gly Trp Met His Asn Arg Leu Arg Met
 340 345 350
 Ile Thr Ala Ser Phe Leu Val Lys Asp Leu Leu Ile Asp Trp Arg Thr
 355 360 365
 Gly Glu Arg Tyr Phe Ile Ser Gln Leu Ile Asp Gly Asp Leu Ala Ala
 370 375 380
 Asn Asn Gly Gly Trp Gln Trp Ala Ala Ser Thr Gly Thr Asp Ala Ala
 385 390 395 400
 Pro Tyr Phe Arg Ile Phe Asn Pro Thr Thr Gln Gly Gln Arg Phe Asp
 405 410 415
 Ala Asp Gly Glu Phe Ile Arg Arg Trp Leu Pro Glu Leu Lys Asp Val
 420 425 430
 Pro Ala Lys Ala Ile His Glu Pro Trp Val Trp Ala Asp Lys Gln Arg
 435 440 445
 Val Thr Leu Asn Tyr Pro Arg Pro Ile Val Asp His Lys Gln Ala Arg
 450 455 460
 Val Ala Thr Leu Ala Ala Tyr Glu Ala Ala Arg Lys Val
 465 470 475

<210> 8886

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 8886

Val Gln Arg Ala Arg Cys Tyr Leu Leu Gly Glu Thr Ala Val Val Leu
 1 5 10 15

Glu Leu Glu Pro Pro Val Thr Leu Ala Thr Gln Lys Arg Ile Trp Arg
 20 25 30
 Leu Ala Gln Arg Leu Pro Glu Leu Pro Gly Val Val Glu Ala Ile Pro
 35 40 45
 Gly Met Asn Asn Ile Thr Val Val Leu Arg Asp Pro His Thr Gly Ala
 50 55 60
 Leu Asp Ala Ile Glu Arg Leu Gln Arg Trp Trp Glu Glu Ser Glu Ala
 65 70 75 80
 Leu Glu Pro Glu Ser Arg Thr Ile Glu Ile Pro Val Val Tyr Gly Gly
 85 90 95
 Lys Gly Gly Pro Asp Leu Gly Val Val Ala Glu His Cys Gly Leu Thr
 100 105 110
 Glu Lys Gln Val Val Glu Leu His Ser Ser Val Asp Tyr Val Val Trp
 115 120 125
 Phe Leu Gly Phe Gln Pro Gly Phe Pro Tyr Leu Gly Gly Leu Ser Pro
 130 135 140
 Gln Leu His Thr Pro Arg Arg Ala Glu Pro Arg Leu Ser Val Pro Ala
 145 150 155 160
 Gly Ser Val Ala Ile Gly Gly Glu Gln Thr Gly Ile Tyr Pro Leu Ala
 165 170 175
 Ser Pro Gly Gly Trp Gln Leu Ile Gly His Thr Ser Thr Pro Leu Phe
 180 185 190
 Glu Pro Gly Gln Asp Ala Pro Ile Leu Leu Arg Pro Gly Asp Thr Leu
 195 200 205
 Arg Phe Ile Pro Gln Lys Glu Gly Val Cys
 210 215

<210> 8887

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 8887

Lys Pro Gly Arg Ile Ser Ser Val Ile Ser Asn Ser Trp Arg Gly Gly
 1 5 10 15
 Ser Met Val Lys Ile Asp Leu Asn Ala Asp Leu Gly Glu Gly Ser Ser
 20 25 30
 Ala Asp Ala Ala Leu Met Thr Leu Val Ser Ser Val Asn Ile Ala Cys
 35 40 45
 Gly Phe His Ala Gly Asp Ala Gln Thr Met Leu Ala Ser Val Arg Asn
 50 55 60
 Ala Met Lys Asn Gly Val Ala Ile Gly Ala His Pro Ser Phe Pro Asp
 65 70 75 80
 Arg Glu Asn Phe Gly Arg Thr Ala Met Asp Leu Pro Pro Glu Thr Val
 85 90
 Tyr Ala Gln Met Leu Tyr Gln Ile Gly Ala Leu Glu Ala Ile Val Arg
 100 105 110
 Ala Glu Asn Gly Val Leu Arg His Val Lys Pro His Gly Met Leu Tyr
 115 120
 Asn Gln Ala Ala Lys Asp Pro Val Leu Ala Asp Ala Ile Ala Arg Ala
 130 135 140
 Val Arg Asp Cys Asn Pro Arg Leu Val Leu Val Gly Leu Ala Gly Ser
 145 150 155 160
 Glu Leu Ile Arg Ala Gly Glu Arg Leu Gly Leu Ser Thr Arg Gln Glu
 165 170 175
 Val Phe Ala Asp Arg Gly Tyr Leu Pro Asp Gly Ser Leu Val Pro Arg
 180 185 190
 Thr Arg Ala Gly Ala Leu Ile Thr Asp Glu Gly Lys Ala Leu Ala Gln
 195 200 205
 Thr Leu Glu Met Val Arg Phe Gly Arg Val Thr Ser Thr Glu Gly Thr
 210 215 220

Thr Ala Asn Val Gln Ala Asp Thr Val Cys Leu His Gly Asp Gly Glu
 225 230 235 240
 His Ala Leu Gln Phe Ala Arg Arg Leu Arg Ala Ala Phe Ser Glu Glu
 245 250 255
 Gly Ile Val Val Ser Ala Glu
 260

<210> 8888

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 8888

Lys Asp Asn Asn Met Pro Glu Gly Pro Glu Ile Arg Arg Ala Ala Asp
 1 5 10 15
 Ser Leu Glu Ala Ala Ile Lys Gly Lys Pro Leu Thr His Val Trp Phe
 20 25 30
 Ala Phe Pro Gln Leu Lys Pro Phe Glu Ser Gln Leu Val Gly Gln Thr
 35 40 45
 Val Thr His Ile Glu Thr Arg Gly Lys Ala Leu Leu Thr His Phe Ser
 50 55 60
 His Asn Leu Thr Leu Tyr Ser His Asn Gln Leu Tyr Gly Val Trp Arg
 65 70 75 80
 Val Val Glu Ala Asp Glu Gln Pro Gln Thr Thr Arg Val Leu Arg Val
 85 90 95
 Arg Leu Gln Thr Ala Asp Lys Ala Ile Leu Leu Tyr Ser Ala Ser Asp
 100 105 110
 Ile Glu Met Leu Thr Pro Glu Gln Leu Leu Thr His Pro Phe Leu Gln
 115 120 125
 Arg Val Gly Pro Asp Val Leu Asp Met Arg Leu Thr Ala Ser Asp Val
 130 135 140
 Lys Thr Arg Leu Leu Ser Pro Thr Phe Arg Asn Arg Gln Phe Ser Gly
 145 150 155 160
 Leu Leu Leu Asp Gln Ala Phe Leu Ala Gly Leu Gly Asn Tyr Leu Arg
 165 170 175
 Val Glu Ile Leu Trp Glu Val Gly Leu Ala Pro Gln His Lys Ala Ser
 180 185 190
 Gln Leu Ser Asp Glu Gln Leu Glu Ala Leu Ser His Ala Leu Leu Asp
 195 200 205
 Ile Pro Arg Leu Ser Tyr Asn Thr Arg Gly Met Val Asp Glu Asn Lys
 210 215 220
 His His Gly Ala Leu Phe Arg Phe Lys Val Phe His Arg Ala Gly Lys
 225 230 235 240
 Lys Cys Glu Arg Cys Gly Gly Ile Ile Asp Arg Ile Met Leu Ser Ser
 245 250 255
 Arg Pro Phe Tyr Trp Cys Pro His Cys Gln Lys
 260 265

<210> 8889

<211> 620

<212> PRT

<213> Enterobacter cloacae

<400> 8889

Thr Ala Gly Asp Ser Pro Ser Ala Ala Thr Asp Tyr Cys Cys Cys Ser
 1 5 10 15
 Ala Gly Leu Arg His Leu Trp Ile Cys Cys Gly Val Gly Cys Val Met
 20 25 30
 Lys Leu Pro Val Arg Glu Phe Asp Ala Val Val Ile Gly Ala Gly Gly
 35 40 45
 Ala Gly Met Arg Ala Ala Leu Gln Ile Ser Gln Ser Gly Gln Thr Cys

50	55	60
Ala Leu Leu Ser Lys Val Phe Pro Thr Arg Ser His Thr Val Ser Ala		
65	70	75
Gln Gly Gly Ile Thr Val Ala Leu Gly Asn Ser His Glu Asp Asn Trp		80
	85	90
Glu Trp His Met Tyr Asp Thr Val Lys Gly Ser Asp Tyr Ile Gly Asp		95
	100	105
Gln Asp Ala Ile Glu Tyr Met Cys Lys Thr Gly Pro Glu Ala Ile Leu		110
	115	120
Glu Leu Asp His Met Gly Leu Pro Phe Ser Arg Leu Glu Asn Gly Thr		125
	130	135
Ile Tyr Gln Arg Pro Phe Gly Gly Gln Ser Lys Asn Phe Gly Gly Glu		140
145	150	155
Gln Ala Ala Arg Thr Ala Ala Ala Ala Asp Arg Thr Gly His Ala Leu		160
	165	170
Leu His Thr Leu Tyr Gln Gln Asn Leu Lys Asn His Thr Thr Ile Phe		175
	180	185
Ser Glu Trp Tyr Ala Leu Asp Leu Val Lys Asn Ala Asp Gly Ala Val		190
	195	200
Val Gly Cys Thr Ala Leu Cys Ile Glu Thr Gly Glu Val Val Tyr Phe		205
	210	215
Lys Ala Arg Ala Thr Val Leu Ala Thr Gly Gly Ala Gly Arg Ile Tyr		220
225	230	235
Gln Ser Thr Thr Asn Ala His Ile Asn Thr Gly Asp Gly Val Gly Met		240
	245	250
Ala Ile Arg Ala Gly Val Pro Val Gln Asp Met Glu Met Trp Gln Phe		255
	260	265
His Pro Thr Gly Ile Ala Gly Ala Gly Val Leu Val Thr Glu Gly Cys		270
	275	280
Arg Gly Glu Gly Gly Tyr Leu Leu Asn Lys His Gly Glu Arg Phe Met		285
290	295	300
Glu Arg Tyr Ala Pro Asn Ala Lys Asp Leu Ala Gly Arg Asp Val Val		305
	310	315
Ala Arg Ser Ile Met Ile Glu Ile Arg Glu Gly Arg Gly Cys Asp Gly		320
	325	330
Pro Trp Gly Pro His Ala Lys Leu Lys Leu Asp His Leu Gly Lys Glu		335
	340	345
Val Leu Glu Ser Arg Leu Pro Gly Ile Leu Glu Leu Ser Arg Thr Phe		350
	355	360
Ala His Val Asp Pro Val Lys Glu Pro Ile Pro Val Ile Pro Thr Cys		365
	370	375
His Tyr Met Met Gly Gly Ile Pro Thr Lys Val Thr Gly Gln Ala Leu		380
385	390	395
Thr Val Asn Glu Gln Gly Glu Asp Val Val Ile Pro Gly Leu Phe Ala		400
	405	410
Val Gly Glu Ile Ala Cys Val Ser Val His Gly Ala Asn Arg Leu Gly		415
	420	425
Gly Asn Ser Leu Leu Asp Leu Val Val Phe Gly Arg Ala Val Gly Leu		430
	435	440
His Leu Gln Glu Ser Ile Ala Glu Gln Gly Ala Leu Arg Asp Ala Thr		445
	450	455
Asp Asp Glu Ile Asp Ala Ser Leu Glu Arg Leu Asn Arg Trp Asn Gly		460
465	470	475
Asn Arg Asn Gly Glu Asp Pro Val Glu Ile Arg Lys Ala Leu Gln Glu		480
	485	490
Cys Met Gln His Asn Phe Ser Val Phe Arg Glu Gly Asp Ala Met Ala		495
	500	505
Lys Gly Leu Glu Gln Leu Lys Ala Ile Arg Glu Arg Leu Lys Asn Ala		510
	515	520
Arg Leu Asp Asp Thr Ser Ser Glu Phe Asn Thr Gln Arg Val Glu Cys		525
530	535	540

Leu Glu Leu Asp Asn Leu Met Glu Thr Ala Phe Ala Thr Ala Met Ser
 545 550 555 560
 Ala Asn Phe Arg Thr Glu Ser Arg Gly Ala His Ser Arg Phe Asp Phe
 565 570 575
 Pro Asp Arg Asp Asp Glu Asn Trp Leu Cys His Ser Leu Tyr Leu Pro
 580 585 590
 Glu Ser Glu Thr Met Thr Arg Arg Ser Val Asn Met Glu Pro Lys Leu
 595 600 605
 Arg Pro Ala Phe Pro Pro Lys Ile Arg Thr Tyr
 610 615 620

<210> 8890

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 8890

Cys Gly Asp Arg Ile Met Lys Leu Glu Phe Ser Val Tyr Arg Tyr Asn
 1 5 10 15
 Pro Asp Val Asp Asp Ala Pro Arg Met Gln Asp Tyr Thr Leu Glu Ala
 20 25 30
 Glu Glu Gly Arg Asp Met Met Leu Leu Asp Ala Leu Ile Gln Leu Lys
 35 40 45
 Glu Lys Asp Pro Thr Leu Ser Phe Arg Arg Ser Cys Arg Glu Gly Val
 50 55 60
 Cys Gly Ser Asp Gly Val Asn Met Asn Gly Lys Asn Gly Leu Ala Cys
 65 70 75 80
 Ile Thr Pro Ile Ser Ala Leu Asn Arg Pro Gly Gln Lys Ile Val Ile
 85 90 95
 Arg Pro Leu Pro Gly Leu Pro Val Val Arg Asp Leu Val Val Asp Met
 100 105 110
 Gly Gln Phe Tyr Ala Gln Tyr Glu Lys Ile Lys Pro Tyr Leu Leu Asn
 115 120 125
 Asn Gly Gln Asn Pro Pro Ala Arg Glu His Leu Gln Ser Pro Glu Gln
 130 135 140
 Arg Glu Lys Leu Asp Gly Leu Tyr Glu Cys Ile Leu Cys Ala Cys Cys
 145 150 155 160
 Ser Thr Ser Cys Pro Ser Phe Trp Trp Asn Pro Asp Lys Phe Ile Gly
 165 170 175
 Pro Ala Gly Leu Leu Ala Ala Tyr Arg Phe Leu Ile Asp Ser Arg Asp
 180 185 190
 Thr Glu Thr Glu Asn Arg Leu Glu Gly Leu Ser Asp Ala Phe Ser Val
 195 200 205
 Phe Arg Cys His Ser Ile Met Asn Cys Val Ser Val Cys Pro Lys Gly
 210 215 220
 Leu Asn Pro Thr Arg Ala Ile Gly His Ile Lys Ser Met Leu Leu Gln
 225 230 235 240
 Arg Ser Ala

<210> 8891

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 8891

Arg Ala Glu Arg Arg Leu Ile Lys Gly Tyr Ile Met Ser Ser Val Asp
 1 5 10 15
 Ile Leu Val Pro Asp Leu Pro Glu Ser Val Ala Asp Ala Thr Val Ala
 20 25 30
 Thr Trp His Lys Lys Pro Gly Asp Ala Val Thr Arg Asp Glu Val Leu

35 40 45
 Val Glu Ile Glu Thr Asp Lys Val Val Leu Glu Val Pro Ala Ser Ala
 50 55 60
 Asp Gly Ile Leu Asp Ala Val Leu Glu Asp Glu Gly Thr Thr Val Thr
 65 70 75 80
 Ser Arg Gln Ile Leu Gly Arg Leu Arg Glu Gly Asn Ser Ala Gly Lys
 85 90 95
 Glu Ser Ser Ala Lys Ser Glu Glu Lys Ala Ser Thr Pro Ala Gln Arg
 100 105 110
 Gln Gln Ala Ser Leu Ser Asp Gln Thr Asn Asp Ala Leu Ser Pro Ala
 115 120 125
 Ile Arg Arg Leu Leu Ala Glu His Ser Leu Asp Pro Ala Ala Ile Lys
 130 135 140
 Gly Thr Gly Val Gly Gly Arg Leu Thr Arg Glu Asp Ile Asp Lys His
 145 150 155 160
 Leu Ala Lys Ala Pro Ser Glu Ala Lys Ala Glu Ala Lys Ala Pro Ala
 165 170 175
 Ala Ala Pro Ala Ala Gln Pro Ala Leu Gly Ala Arg Ser Glu Lys Arg
 180 185 190
 Val Pro Met Thr Arg Leu Arg Lys Arg Val Ala Glu Arg Leu Leu Glu
 195 200 205
 Ala Lys Asn Ser Thr Ala Met Leu Thr Thr Phe Asn Glu Val Asn Met
 210 215 220
 Lys Pro Ile Met Asp Leu Arg Lys Gln Tyr Gly Asp Ala Phe Glu Lys
 225 230 235 240
 Arg His Gly Ile Arg Leu Gly Phe Met Ser Phe Tyr Val Lys Ala Val
 245 250 255
 Val Glu Ala Leu Lys Arg Tyr Pro Glu Val Asn Ala Ser Ile Asp Gly
 260 265 270
 Asp Asp Val Val Tyr His Asn Tyr Phe Asp Val Ser Met Ala Val Ser
 275 280 285
 Thr Pro Arg Gly Leu Val Thr Pro Val Leu Arg Asp Val Asp Thr Leu
 290 295 300
 Gly Met Ala Asp Ile Glu Lys Lys Ile Lys Glu Leu Ala Val Lys Gly
 305 310 315 320
 Arg Asp Gly Lys Leu Thr Val Glu Asp Leu Thr Gly Gly Asn Phe Thr
 325 330 335
 Ile Thr Asn Gly Gly Val Phe Gly Ser Leu Met Ser Thr Pro Ile Ile
 340 345 350
 Asn Pro Pro Gln Ser Ala Ile Leu Gly Met His Ala Ile Lys Asp Arg
 355 360 365
 Pro Met Ala Val Asp Gly Lys Val Glu Ile Leu Pro Met Met Tyr Leu
 370 375 380
 Ala Leu Ser Tyr Asp His Arg Leu Ile Asp Gly Arg Glu Ser Val Gly
 385 390 395 400
 Phe Leu Val Ala Ile Lys Glu Leu Leu Glu Asp Pro Thr Arg Leu Leu
 405 410 415
 Leu Asp Val
 420

<210> 8892

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 8892

Gln Arg Pro Glu Tyr Tyr Cys Ser Glu Lys Ser Asp Gly Cys Ser Ser
 1 5 10 15
 Ala Gly Cys Cys Arg Ser Gly Gly Glu Ile Met Ser Val Leu Ile Asn
 20 25 30
 Lys Asp Thr Lys Val Ile Cys Gln Gly Phe Thr Gly Ser Gln Gly Thr

35 40 45
 Phe His Ser Glu Gln Ala Ile Ala Tyr Gly Thr Gln Met Val Gly Gly
 50 55 60
 Val Thr Pro Gly Lys Gly Gly Thr Thr His Leu Gly Leu Pro Val Phe
 65 70 75 80
 Asn Thr Val Arg Glu Ala Val Glu Ala Thr Gly Ala Thr Ala Thr Val
 85 90 95
 Ile Tyr Val Pro Ala Pro Phe Cys Lys Asp Ser Ile Leu Glu Ala Ile
 100 105 110
 Asp Ala Gly Ile Lys Leu Ile Ile Thr Ile Thr Glu Gly Ile Pro Thr
 115 120 125
 Leu Asp Met Leu Thr Val Lys Val Lys Leu Asp Glu Ala Gly Val Arg
 130 135 140
 Met Ile Gly Pro Asn Cys Pro Gly Val Ile Thr Pro Gly Glu Cys Lys
 145 150 155 160
 Ile Gly Ile Met Pro Gly His Ile His Arg Pro Gly Lys Val Gly Ile
 165 170 175
 Val Ser Arg Ser Gly Thr Leu Thr Tyr Glu Ala Val Lys Gln Thr Thr
 180 185 190
 Asp Tyr Gly Phe Gly Gln Ser Thr Cys Val Gly Ile Gly Gly Asp Pro
 195 200 205
 Ile Pro Gly Ser Asn Phe Ile Asp Ile Leu Lys Leu Phe Gln Glu Asp
 210 215 220
 Pro Gln Thr Glu Ala Ile Val Met Ile Gly Glu Ile Gly Gly Ser Ala
 225 230 235 240
 Glu Glu Glu Ala Ala Tyr Ile Lys Asp His Val Thr Lys Pro Val
 245 250 255
 Val Gly Tyr Ile Ala Gly Val Thr Ala Pro Lys Gly Lys Arg Met Gly
 260 265 270
 His Ala Gly Ala Ile Ile Ala Gly Gly Lys Gly Thr Ala Asp Glu Lys
 275 280 285
 Phe Ala Ala Leu Glu Ala Ala Gly Val Lys Thr Val Arg Ser Leu Ala
 290 295 300
 Asp Ile Gly Glu Ala Leu Lys Ser Ile Ile Lys
 305 310 315

<210> 8893

<211> 562

<212> PRT

<213> Enterobacter cloacae

<400> 8893

Gln Glu Thr Lys Met Lys Ala Val Ser Arg Val His Ile Thr Pro His
 1 5 10 15
 Met His Trp Asp Arg Glu Trp Tyr Phe Thr Thr Glu Ala Ser Arg Ile
 20 25 30
 Leu Leu Val Asn Asn Met Glu Glu Ile Leu Thr Arg Leu Glu Gln Asp
 35 40 45
 Ala Glu Tyr Lys Tyr Tyr Val Leu Asp Gly Gln Thr Ala Val Leu Glu
 50 55 60
 Asp Tyr Phe Ala Val Lys Pro Glu Asn Arg Pro Arg Val Lys Ala Leu
 65 70 75 80
 Val Ala Ala Gly Lys Leu Ile Ile Gly Pro Trp Tyr Thr Gln Thr Asp
 85 90 95
 Thr Thr Leu Val Ser Gly Glu Ser Ile Val Arg Asn Leu Met Tyr Gly
 100 105 110
 Ile Arg Asp Cys Leu Ala Phe Gly Glu Pro Met Lys Ile Gly Tyr Leu
 115 120 125
 Pro Asp Ser Phe Gly Met Ser Ser Gln Leu Pro His Ile Tyr Asn Gly
 130 135 140
 Phe Gly Ile Thr Arg Thr Met Phe Trp Arg Gly Cys Ser Glu Arg His

145 150 155 160
 Gly Thr Asp Lys Thr Glu Phe Leu Trp Gln Ser Gln Asp Gly Ser Glu
 165 170 175
 Val Thr Ala Gln Val Leu Pro Leu Gly Tyr Ala Ile Gly Lys Tyr Leu
 180 185 190
 Pro Glu Asp Glu Ala Gly Leu Arg Lys Arg Leu Asp Thr Tyr Phe Glu
 195 200 205
 Val Leu Glu Lys Ala Ser Val Thr Lys Glu Ile Leu Leu Pro Asn Gly
 210 215 220
 His Asp Gln Met Pro Leu Gln Gln Asn Ile Phe Ala Val Met Asp Lys
 225 230 235 240
 Leu Arg Glu Ile Tyr Pro Gln Arg Gln Phe Val Met Ser Arg Phe Glu
 245 250 255
 Glu Val Phe Asp His Ile Asp Ala His Arg Asp Glu Leu Ala Thr Leu
 260 265 270
 Lys Gly Glu Phe Ile Asp Gly Lys Tyr Met Arg Val His Arg Thr Ile
 275 280 285
 Gly Ser Thr Arg Met Asp Ile Lys Ile Ala His Ala Arg Ile Glu Asn
 290 295 300
 Lys Ile Val Asn Val Leu Glu Pro Leu Ala Thr Leu Ala Trp Thr Leu
 305 310 315 320
 Gly Phe Glu Tyr His His Gly Leu Leu Glu Lys Met Trp Lys Glu Ile
 325 330 335
 Leu Lys Asn His Ala His Asp Ser Ile Gly Cys Cys Cys Ser Asp Lys
 340 345 350
 Val His Arg Glu Val Met Ser Arg Phe Glu Leu Ala Glu Asp Met Ala
 355 360 365
 Asp Asn Leu Thr Cys Phe Tyr Met Arg Lys Ile Val Asp Asn Met Pro
 370 375 380
 Gln Cys Glu Glu Asp Lys Leu Val Met Phe Asn Leu Thr Pro Trp Pro
 385 390 395 400
 Arg Glu Glu Val Ile Asn Thr Thr Ile Arg Leu Arg Ala Ser Gln Phe
 405 410 415
 Arg Leu Leu Asp Asp Arg Gly Asn Glu Ile Pro Tyr Cys Leu Arg Ser
 420 425 430
 Ala Arg Glu Ile Asp Pro Gly Leu Ile Asp Arg Gln Ile Val His Tyr
 435 440 445
 Gly Asn Tyr Asp Pro Phe Met Glu Phe Asp Ile Gln Leu Asn Gln Ile
 450 455 460
 Leu Pro Ser Met Gly Tyr Arg Thr Leu Tyr Ile Glu Pro His Val Ala
 465 470 475 480
 Gly Lys Leu Leu Ala Pro Glu Thr Thr Ser Glu Ala Leu Leu Glu Asn
 485 490 495
 Ala Phe Trp Glu Ile Thr Leu Asn Asp Asp Gly Thr Leu Arg Leu Leu
 500 505 510
 Asp Lys Ala Ser Gly Leu Ile Tyr Asp Arg Ala Leu Glu Ile Glu Glu
 515 520 525
 Ser Ser Asp Asp Gly Asp Glu Tyr Asp Tyr Ser Pro Ser Arg Glu Glu
 530 535 540
 Trp Arg Leu Thr Ser Ala Gln Ala Tyr Phe Thr Thr Arg Pro Arg Ser
 545 550 555 560
 Ser Arg

<210> 8894

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 8894

Thr Ile Pro Val Pro Leu Ser Thr Ile Asn Arg Arg Ala Ser Pro Arg

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1           5           10           15
Trp Arg Arg Thr Lys Pro Pro Glu Lys Phe Glu Arg Met Met Lys
20 25 30
Asn Ser Glu Leu Glu Arg Leu Ile Asn Glu Lys Leu Asn Thr Ala Ser
35 40 45
Phe Ser Asp Tyr Gly Pro Asn Gly Leu Gln Val Glu Gly Arg Glu Thr
50 55 60
Val Gln Lys Ile Ile Thr Gly Val Thr Ala Ser Gln Ala Leu Leu Asp
65 70 75 80
Glu Ala Val Arg Gln Glu Ala Asp Ala Val Ile Val His His Gly Tyr
85 90 95
Phe Trp Lys Asn Glu Ser Pro Ile Ile Arg Gly Met Lys Arg Asn Arg
100 105 110
Leu Lys Thr Leu Leu Ala Asn Asp Ile Asn Leu Tyr Gly Tyr His Leu
115 120 125
Pro Leu Asp Ala His Pro Glu Leu Gly Asn Asn Val Gln Leu Ala Gln
130 135 140
Leu Leu Gly Ile Thr Val Met Gly Glu Ile Glu Pro Leu Val Pro Trp
145 150 155 160
Gly Glu Leu Ser Met Pro Val Pro Gly Leu Glu Leu Ala Ser Trp Ile
165 170 175
Glu Ala Arg Leu Gly Arg Arg Pro Leu Trp Cys Gly Asp Thr Gly Pro
180 185 190
Asp Thr Val Lys Arg Val Ala Trp Cys Thr Gly Gly Gly Gln Gly Phe
195 200 205
Ile Asp Ser Ala Ala Arg Phe Gly Val Asp Ala Phe Ile Thr Gly Glu
210 215 220
Val Ser Glu Gln Thr Ile His Ser Ala Arg Glu Gln Gly Leu His Phe
225 230 235 240
Tyr Ala Ala Gly His His Ala Thr Glu Asp Gly Gly Ile Arg Ala Leu
245 250 255
Ser Glu Trp Leu Thr Glu Asn Thr Asp Leu Asp Val Thr Phe Ile Asp
260 265 270
Ile Pro Asn Pro Ala
275

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<210> 8895

<211> 133

<212> PRT

<213> *Enterobacter cloacae*

<400> 8895

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His Phe Ile Cys Asp His Cys Arg Ala Phe Thr Ser Arg Arg Ser Ser
1 5 10 15
Arg Met Val Ser Asn Ala Ser Ala Leu Gly Arg Asn Gly Val His Asp
20 25 30
Phe Ile Leu Val Arg Ala Thr Ala Ile Val Leu Thr Leu Tyr Ile Ile
35 40 45
Tyr Met Ile Gly Phe Phe Ala Thr Ser Gly Thr Leu Thr Trp Glu Ile
50 55 60
Trp Ser Gly Phe Phe Gly Ser Ala Phe Thr Lys Val Phe Thr Leu Leu
65 70 75 80
Ala Leu Phe Ser Ile Leu Ile His Ala Trp Ile Gly Met Trp Gln Val
85 90 95
Leu Thr Asp Tyr Val Lys Pro Leu Ala Ile Arg Leu Pro Leu Gln Leu
100 105 110
Ile Ile Val Val Ala Leu Leu Val Tyr Val Ile Tyr Gly Phe Val Val
115 120 125
Val Trp Gly Val
130

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<210> 8896

<211> 939

<212> PRT

<213> *Enterobacter cloacae*

<400> 8896

Gly Ile Thr Met Gln Asn Gly Ala Met Lys Ala Trp Leu Asp Ser Ser
 1 5 10 15
 Tyr Leu Ser Gly Ser Asn Gln Ser Trp Ile Glu Gln Leu Tyr Glu Asp
 20 25 30
 Phe Leu Thr Asp Pro Asp Ser Val Asp Ala Asn Trp Arg Ser Met Phe
 35 40 45
 Gln Gln Leu Pro Gly Thr Gly Val Lys Pro Asp Gln Phe His Ser Lys
 50 55 60
 Thr Arg Asp Tyr Phe Arg Arg Leu Ala Lys Asp Ala Ser Arg Tyr Ser
 65 70 75 80
 Ser Ala Ile Ser Asp Pro Asp Thr Asn Ala Lys Gln Val Lys Val Leu
 85 90 95
 Gln Leu Ile Asn Ala Tyr Arg Phe Arg Gly His Gln His Ala Asn Leu
 100 105 110
 Asp Pro Leu Gly Leu Trp Gln Gln Glu Arg Val Ala Asp Leu Asp Pro
 115 120 125
 Ala Tyr His Asp Leu Thr Glu Ala Asp Phe Gln Glu Ser Phe Asn Val
 130 135 140
 Gly Ser Phe Ala Ile Gly Lys Asp Thr Met Lys Leu Gly Asp Leu Ile
 145 150 155 160
 Asp Ala Leu Lys Gln Thr Tyr Cys Gly Ser Ile Gly Ala Glu Tyr Met
 165 170 175
 His Ile Thr Ser Thr Glu Glu Lys Arg Trp Ile Gln Gln Arg Ile Glu
 180 185 190
 Ser Val Ala Gly His Ala Asn Phe Ser Ala Glu Glu Lys Lys Arg Phe
 195 200 205
 Leu Ser Glu Leu Thr Ala Ala Glu Gly Leu Glu Arg Tyr Leu Gly Ala
 210 215 220
 Lys Phe Pro Gly Ala Lys Arg Phe Ser Leu Glu Gly Gly Asp Ala Leu
 225 230 235 240
 Val Pro Met Leu Lys Glu Leu Ile Arg His Ala Gly Lys Ser Gly Thr
 245 250 255
 Arg Glu Val Val Leu Gly Met Ala His Arg Gly Arg Leu Asn Val Leu
 260 265 270
 Val Asn Val Leu Gly Lys Lys Pro Gln Asp Leu Phe Asp Glu Phe Ala
 275 280 285
 Gly Lys His Lys Glu His Leu Gly Thr Gly Asp Val Lys Tyr His Met
 290 295 300
 Gly Phe Ser Ser Asp Ile Glu Thr Glu Gly Gly Gln Val His Leu Ala
 305 310 315 320
 Leu Ala Phe Asn Pro Ser His Leu Glu Ile Val Ser Pro Val Val Ile
 325 330 335
 Gly Ser Val Arg Ala Arg Leu Asp Arg Leu Asp Glu Pro Ser Ser Asn
 340 345 350
 Lys Val Leu Pro Ile Thr Ile His Gly Asp Ala Ala Val Thr Gly Gln
 355 360 365
 Gly Val Val Gln Glu Thr Leu Asn Met Ser Lys Ala Arg Gly Tyr Glu
 370 375 380
 Val Gly Gly Thr Val Arg Ile Val Ile Asn Asn Gln Val Gly Phe Thr
 385 390 395 400
 Thr Ser Asn Pro Leu Asp Ala Arg Ser Thr Pro Tyr Cys Thr Asp Ile
 405 410 415
 Gly Lys Met Val Gln Ala Pro Ile Phe His Val Asn Ala Asp Asp Pro
 420 425 430
 Glu Ala Val Ala Phe Val Thr Arg Leu Ala Leu Asp Phe Arg Asn Thr

435					440					445					
Phe	Lys	Arg	Asp	Val	Phe	Ile	Asp	Leu	Phe	Cys	Tyr	Arg	Arg	His	Gly
450					455					460					
His	Asn	Glu	Ala	Asp	Glu	Pro	Ser	Ala	Thr	Gln	Pro	Leu	Met	Tyr	Gln
465					470					475					480
Lys	Ile	Lys	Lys	His	Pro	Thr	Pro	Arg	Lys	Ile	Tyr	Ala	Asp	Lys	Leu
				485					490					495	
Glu	Ser	Glu	Lys	Val	Ala	Thr	Leu	Glu	Asp	Ala	Thr	Glu	Met	Val	Asn
			500					505					510		
Leu	Tyr	Arg	Asp	Ala	Leu	Asp	Ala	Gly	Glu	Cys	Val	Val	Lys	Glu	Leu
			515				520					525			
Arg	Pro	Met	Asn	Met	His	Ser	Phe	Thr	Trp	Ser	Pro	Tyr	Leu	Asn	His
530					535					540					
Glu	Trp	Asp	Glu	Ser	Tyr	Pro	Asn	Lys	Val	Glu	Met	Lys	Arg	Leu	Gln
545				550						555					560
Glu	Leu	Ala	Lys	Arg	Ile	Ser	Thr	Val	Pro	Glu	Ala	Ile	Glu	Met	Gln
				565					570					575	
Ser	Arg	Val	Ala	Lys	Ile	Tyr	Gly	Asp	Arg	Gln	Ala	Met	Ala	Ala	Gly
				580					585					590	
Glu	Lys	Leu	Phe	Asp	Trp	Gly	Gly	Ala	Glu	Thr	Leu	Ala	Tyr	Ala	Thr
				595			600					605			
Leu	Val	Asp	Glu	Gly	Ile	Pro	Val	Arg	Leu	Ser	Gly	Glu	Asp	Ala	Gly
610					615					620					
Arg	Gly	Thr	Phe	Phe	His	Arg	His	Ala	Val	Val	His	Asn	Gln	Ser	Asn
625					630					635					640
Gly	Ser	Thr	Tyr	Thr	Pro	Leu	Gln	His	Val	His	Asn	Gly	Gln	Gly	Gln
				645					650					655	
Phe	Lys	Val	Trp	Asp	Ser	Val	Leu	Ser	Glu	Glu	Ala	Val	Leu	Ala	Phe
			660					665					670		
Glu	Tyr	Gly	Tyr	Ala	Thr	Ala	Glu	Pro	Arg	Thr	Leu	Thr	Ile	Trp	Glu
			675				680					685			
Ala	Gln	Phe	Gly	Asp	Phe	Ala	Asn	Gly	Ala	Gln	Val	Val	Ile	Asp	Gln
				690								700			
Phe	Ile	Ser	Ser	Gly	Glu	Gln	Lys	Trp	Gly	Arg	Met	Cys	Gly	Leu	Val
705				710						715				720	
Met	Leu	Leu	Pro	His	Gly	Tyr	Glu	Gly	Gln	Gly	Pro	Glu	His	Ser	Ser
				725					730					735	
Ala	Arg	Leu	Glu	Arg	Tyr	Leu	Gln	Leu	Cys	Ala	Glu	Gln	Asn	Met	Gln
				740				745					750		
Val	Cys	Val	Pro	Ser	Thr	Pro	Ala	Gln	Val	Tyr	His	Met	Leu	Arg	Arg
			755				760					765			
Gln	Ala	Leu	Arg	Gly	Met	Arg	Arg	Pro	Leu	Val	Val	Met	Ser	Pro	Lys
				770			775					780			
Ser	Leu	Leu	Arg	His	Pro	Leu	Ala	Val	Ser	Ser	Leu	Glu	Glu	Leu	Ala
785				790						795					800
Asn	Gly	Thr	Phe	Leu	Pro	Ala	Ile	Gly	Glu	Ile	Asp	Glu	Leu	Asp	Pro
				805					810					815	
Gln	Ala	Val	Lys	Arg	Val	Val	Met	Cys	Ser	Gly	Lys	Val	Tyr	Tyr	Asp
				820				825					830		
Leu	Leu	Glu	Gln	Arg	Arg	Lys	Asn	Asp	Gln	Lys	Asp	Val	Ala	Ile	Val
			835				840					845			
Arg	Ile	Glu	Gln	Leu	Tyr	Pro	Phe	Pro	His	Gln	Ala	Met	Gln	Glu	Val
				850			855					860			
Leu	Lys	Gln	Tyr	Ala	His	Val	His	Asp	Phe	Val	Trp	Cys	Gln	Glu	Glu
				870						875				880	
Pro	Leu	Asn	Gln	Gly	Ala	Trp	Tyr	Cys	Ser	Gln	His	His	Phe	Arg	Glu
				885					890					895	
Val	Ile	Pro	Phe	Gly	Ser	Ala	Leu	Arg	Tyr	Ala	Gly	Arg	Pro	Ala	Ser
				900				905					910		
Ala	Ser	Pro	Ala	Val	Gly	Tyr	Met	Ser	Val	His	Gln	Lys	Gln	Gln	Gln
				915			920								

Asp Leu Val Asn Asp Ala Leu Asn Val Asp
930 935

<210> 8897

<211> 398

<212> PRT

<213> Enterobacter cloacae

<400> 8897

Arg Leu Pro Glu Gly Trp Ile Glu His Met Asn Leu His Glu Tyr Gln
1 5 10 15
Ala Lys Gln Leu Phe Ala Arg Tyr Gly Leu Pro Ala Pro Val Gly Tyr
20 25 30
Ala Cys Thr Thr Pro Arg Glu Ala Glu Glu Ala Ala Ser Lys Ile Gly
35 40 45
Ala Gly Pro Trp Val Val Lys Cys Gln Val His Ala Gly Gly Arg Gly
50 55 60
Lys Ala Gly Gly Val Lys Val Val Lys Ser Lys Glu Glu Ile Arg Ala
65 70 75 80
Phe Ala Glu His Trp Leu Gly Lys Arg Leu Val Thr Tyr Gln Thr Asp
85 90 95
Ala Asn Gly Gln Pro Val Asn Gln Ile Leu Val Glu Ala Ala Thr Asp
100 105 110
Ile Ala Lys Glu Leu Tyr Leu Gly Ala Val Val Asp Arg Ser Ser Arg
115 120 125
Arg Val Val Phe Met Ala Ser Thr Glu Gly Gly Val Glu Ile Glu Lys
130 135 140
Val Ala Glu Glu Thr Pro His Leu Ile His Lys Val Ala Ile Asp Pro
145 150 155 160
Leu Ala Gly Pro Met Pro Tyr Gln Gly Arg Glu Leu Ala Phe Lys Leu
165 170 175
Gly Leu Glu Gly Lys Leu Val Gln Gln Phe Thr Lys Ile Phe Met Gly
180 185 190
Leu Ala Thr Ile Phe Leu Glu Arg Asp Leu Ala Leu Ile Glu Ile Asn
195 200 205
Pro Leu Val Ile Thr Thr Gln Gly Asp Leu Ile Cys Leu Asp Gly Lys
210 215 220
Leu Gly Ala Asp Gly Asn Ala Leu Phe Arg Gln Ser Asp Leu Arg Glu
225 230 235 240
Met Arg Asp Gln Ser Gln Glu Asp Pro Arg Glu Ala Gln Ala Ala Gln
245 250 255
Trp Glu Leu Asn Tyr Val Ala Leu Asp Gly Asn Ile Gly Cys Met Val
260 265 270
Asn Gly Ala Gly Leu Ala Met Gly Thr Met Asp Ile Val Lys Leu His
275 280 285
Gly Gly Glu Pro Ala Asn Phe Leu Asp Val Gly Gly Gly Ala Thr Lys
290 295 300
Glu Arg Val Thr Glu Ala Phe Lys Ile Ile Leu Ser Asp Ser Asn Val
305 310 315 320
Lys Ala Val Leu Val Asn Ile Phe Gly Gly Ile Val Arg Cys Asp Leu
325 330 335
Ile Ala Asp Gly Ile Ile Gly Ala Val Glu Glu Val Gly Val Asn Val
340 345 350
Pro Val Val Val Arg Leu Glu Gly Asn Asn Ala Glu Leu Gly Ala Lys
355 360 365
Lys Leu Ala Asp Ser Gly Leu Asn Ile Ile Ala Ala Lys Ser Leu Thr
370 375 380
Asp Ala Ala Gln Gln Val Val Ala Ala Val Glu Gly Lys
385 390 395

<210> 8898

<211> 643

<212> PRT

<213> *Enterobacter cloacae*

<400> 8898

Gly Arg Ile Phe Met Asn Leu Thr Thr Leu Thr Asp Pro Arg Ala Val
 1 5 10 15
 Cys Val Gln Ala Gln Phe Thr Ser Arg Asp Glu Ala Ile Arg Gln Leu
 20 25 30
 Ala Thr Arg Leu Val Ala Leu Gly Lys Ile Ala Asp Ala Asp Thr Phe
 35 40 45
 Leu Ala Glu Val Phe His Arg Glu Ser Leu Gly Pro Thr Ala Leu Gly
 50 55 60
 Glu Gly Leu Ala Val Pro His Gly Lys Ser Ala Ala Val Lys Glu Ala
 65 70 75 80
 Ala Phe Ala Val Ala Thr Leu Cys Glu Pro Leu Ala Trp Glu Gly Val
 85 90 95
 Asp Gly Pro Glu Glu Val Glu Leu Ile Phe Leu Leu Ala Ile Pro Pro
 100 105 110
 Ala Gln Ala Gly Ser Thr His Ile Gln Val Leu Thr Glu Leu Thr Ser
 115 120 125
 Arg Leu Ala Asp Asp Asp Leu Arg Gly Arg Val Met Thr Ala Thr Ser
 130 135 140
 Ala Glu Ala Val Leu Ala Ala Leu Glu Thr Ala Pro Asp Ala Gln Glu
 145 150 155 160
 Thr Ala Val Ala Glu Asn Ala Pro Thr Ile Val Cys Val Thr Ala Cys
 165 170 175
 Pro Ala Gly Ile Ala His Thr Tyr Met Ala Ala Glu Tyr Leu Glu Lys
 180 185 190
 Ala Gly Arg Lys Leu Gly Val Asn Val Val Val Glu Lys Gln Gly Ala
 195 200 205
 Asn Gly Ile Glu Gly Arg Ile Thr Ala Gln Gln Leu Gln Glu Ala Lys
 210 215 220
 Ala Cys Ile Phe Ala Ala Glu Val Ala Ile Lys Glu Arg Glu Arg Phe
 225 230 235 240
 Gln Gly Ile Pro Ala Ile Ser Val Pro Val Ala Glu Pro Leu Arg His
 245 250 255
 Ala Glu Ala Leu Ile Glu Arg Ala Leu Ala Leu Gln Pro Val Ser Asp
 260 265 270
 Ala Arg Pro Ala His Val Asp Thr Asp Ala Lys Lys Cys Val Lys Thr
 275 280 285
 Glu Leu Lys Gln Ala Leu Leu Ser Gly Ile Ser Phe Ala Val Pro Leu
 290 295 300
 Ile Val Ala Gly Gly Thr Val Leu Ala Val Ser Val Leu Leu Ala Gln
 305 310 315 320
 Ile Leu Gly Leu Gln His Leu Phe Asp Gln Glu Asn Ser Trp Leu Trp
 325 330 335
 Met Tyr Arg Lys Leu Gly Gly Gly Met Leu Gly Ile Leu Met Val Pro
 340 345 350
 Val Leu Ala Ala Tyr Thr Ala Tyr Ser Leu Ala Asp Lys Pro Ala Leu
 355 360 365
 Thr Pro Gly Phe Ala Ala Gly Leu Ala Ala Asn Met Ile Gly Ser Gly
 370 375 380
 Phe Leu Gly Ala Ile Val Gly Gly Leu Ile Ala Gly Tyr Leu Met Arg
 385 390 395 400
 Trp Val Lys Asn His Ile Arg Leu Ser Ser Arg Tyr Asn Gly Phe Leu
 405 410 415
 Thr Phe Tyr Leu Tyr Pro Val Ile Gly Val Leu Gly Ala Gly Ser Leu
 420 425 430
 Met Leu Phe Val Ile Gly Glu Pro Val Ala Trp Ile Asn Asn Ala Leu
 435 440 445

Thr Ala Trp Leu Asn Gly Leu Ser Gly Ala Asn Ala Leu Leu Leu Gly
 450 455 460
 Ala Ile Leu Gly Phe Met Cys Ser Phe Asp Leu Gly Gly Pro Val Asn
 465 470 475 480
 Lys Ala Ser Tyr Ala Phe Cys Leu Gly Ala Met Ala Asn Gly Val Tyr
 485 490 495
 Gly Pro Tyr Ala Ile Phe Ala Ser Val Lys Met Val Ser Ala Phe Thr
 500 505 510
 Val Thr Ala Ser Thr Met Leu Ala Pro Asn Leu Phe Lys Gln Phe Glu
 515 520 525
 Ile Glu Thr Gly Lys Ser Thr Trp Leu Leu Gly Leu Ala Gly Ile Thr
 530 535 540
 Glu Gly Ala Ile Pro Met Ala Ile Glu Asp Pro Leu Arg Val Ile Gly
 545 550 555 560
 Ser Phe Val Leu Gly Ser Met Ala Thr Gly Ala Ile Val Gly Ala Met
 565 570 575
 Gly Ile Gly Leu Ser Thr Pro Gly Ala Gly Ile Phe Ser Leu Phe Leu
 580 585 590
 Leu His Asp Ala Gly Leu Gly Gly Val Met Ala Ala Ala Gly Trp Phe
 595 600 605
 Gly Ala Ala Leu Ile Gly Ala Ala Ile Ser Thr Leu Ile Leu Leu Leu
 610 615 620
 Trp Arg Arg Gln Ala Val Lys Ser Gly Ala Tyr Val Thr Glu Asp Ile
 625 630 635 640
 Thr Ser

<210> 8899

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 8899

Cys Gly Gly Ile Leu Met Ala Ala Gln Ala Phe Leu Leu Ile Ala Ser
 1 5 10 15
 Phe Leu Leu Val Leu Phe Val Phe Ala Arg Pro Leu Gly Thr Ala Leu
 20 25 30
 Ala Arg Leu Ile Asn Asn Val Pro Leu Pro Gly Thr Arg Asn Ile Glu
 35 40 45
 Asn Val Leu Trp Arg Ile Ser Gly Ile Ser Asp Arg Glu Met Asn Trp
 50 55 60
 Arg Gln Tyr Leu Met Ala Ile Leu Leu Leu Asn Ile Val Gly Leu Ile
 65 70 75 80
 Ala Leu Phe Thr Leu Leu Met Leu Gln Gly Ser Leu Pro Leu Asn Pro
 85 90 95
 Gln Gln Leu Pro Gly Leu Ser Trp His Leu Ala Leu Asn Thr Ala Val
 100 105 110
 Ser Phe Val Thr Asn Thr Asn Trp Gln Ser Tyr Ala Gly Glu Thr Thr
 115 120 125
 Leu Ser Tyr Phe Ser Gln Met Ala Gly Leu Thr Val Gln Asn Phe Leu
 130 135 140
 Ser Ala Ala Ser Gly Ile Ala Val Ile Phe Ala Leu Thr Arg Ala Phe
 145 150 155 160
 Ala Arg Gln Asn Val Ser Thr Leu Gly Asn Ala Trp Val Asp Val Thr
 165 170 175
 Arg Ile Thr Leu Trp Ile Leu Val Pro Val Ala Leu Ile Ile Ala Leu
 180 185 190
 Phe Phe Ile Gln Gln Gly Thr Leu Gln Asn Leu Leu Pro Tyr Thr Pro
 195 200 205
 Phe Thr Ser Leu Glu Gly Ala Arg Glu Leu Leu Pro Met Gly Pro Val
 210 215 220

Ala Ser Gln Glu Ala Ile Lys Met Leu Gly Thr Asn Gly Gly Gly Phe
 225 230 235 240
 Phe Asn Ala Asn Ser Ser His Pro Phe Glu Asn Pro Thr Ala Leu Thr
 245 250 255
 Asn Phe Val Gln Met Leu Ala Ile Phe Leu Ile Pro Thr Ala Leu Cys
 260 265 270
 Phe Ala Phe Gly Asp Val Val Asn Asp Arg Arg Gln Gly Arg Thr Leu
 275 280 285
 Leu Trp Ala Met Ser Leu Ile Phe Val Val Cys Val Ala Leu Val Met
 290 295 300
 Trp Ala Glu Trp Tyr Gly Asn Ser His Phe Met Gln Leu Gly Ala Asn
 305 310 315 320
 Ser Asn Ile Asn Leu Glu Gly Lys Glu Ser Arg Phe Gly Ile Leu Ala
 325 330 335
 Ser Ser Leu Tyr Ala Val Val Thr Thr Ala Ala Ser Cys Gly Ala Val
 340 345 350
 Asn Ala Met His Asp Ser Phe Thr Ala Leu Gly Gly Met Ile Pro Met
 355 360 365
 Trp Leu Met Gln Ile Gly Glu Val Val Phe Gly Gly Val Gly Ser Gly
 370 375 380
 Leu Tyr Gly Met Leu Leu Phe Val Leu Leu Ala Val Phe Ile Ala Gly
 385 390 395 400
 Leu Met Ile Gly Arg Thr Pro Glu Tyr Leu Gly Lys Lys Ile Asp Val
 405 410 415
 Arg Glu Met Lys Leu Thr Ala Leu Ala Ile Leu Val Thr Pro Ala Leu
 420 425 430
 Val Leu Leu Gly Thr Ala Leu Ala Leu Met Thr Asp Val Gly Arg Ser
 435 440 445
 Gly Ile Phe Asn Pro Gly Ile His Gly Phe Ser Glu Val Leu Tyr Ala
 450 455 460
 Val Ser Ser Ala Ala Asn Asn Gly Ser Ala Phe Ala Gly Leu Ser
 465 470 475 480
 Ala Asn Ser Pro Phe Trp Asn Cys Leu Leu Ala Phe Cys Met Phe Val
 485 490 495
 Gly Arg Phe Gly Val Ile Ile Pro Val Met Ala Ile Ala Gly Thr Leu
 500 505 510
 Val Asn Lys Lys Ile Gln Pro Thr Thr Gly Thr Leu Pro Thr His
 515 520 525
 Gly Ala Leu Phe Val Gly Leu Leu Ile Gly Thr Val Leu Leu Val Gly
 530 535 540
 Ala Leu Thr Phe Ile Pro Ala Leu Ala Leu Gly Pro Val Ala Glu Tyr
 545 550 555 560
 Leu Ser Leu Arg
 565

<210> 8900

<211> 689

<212> PRT

<213> Enterobacter cloacae

<400> 8900

Phe Cys Gly Glu Phe Phe Met Ser Arg Lys Gln Leu Ala Leu Leu Glu
 1 5 10 15
 Pro Thr Leu Val Arg Gln Ala Leu Met Asp Ala Val Lys Lys Leu Ser
 20 25 30
 Pro Arg Val Gln Trp His Asn Pro Val Met Phe Ile Val Trp Thr Gly
 35 40 45
 Ser Leu Leu Thr Thr Val Leu Ala Ile Ala Met Gly Thr Gly His Leu
 50 55 60
 Leu Gly Asn Ala Thr Phe Thr Gly Ala Ile Ser Leu Trp Leu Trp Phe
 65 70 75 80

Thr Val Leu Phe Ala Asn Phe Ala Glu Ala Leu Ala Glu Gly Arg Ser
 85 90 95
 Lys Ala Gln Ala Asn Ser Leu Lys Gly Val Lys Lys Thr Ala Phe Ala
 100 105 110
 Arg Lys Leu Arg Glu Pro Lys Tyr Gly Ala His Met Asp His Val Pro
 115 120 125
 Ala Asp Glu Leu Arg Lys Gly Asp Val Val Leu Val Glu Ala Gly Asp
 130 135 140
 Ile Ile Pro Cys Asp Gly Glu Val Ile Glu Gly Gly Ala Ser Val Asp
 145 150 155 160
 Glu Ser Ala Ile Thr Gly Glu Ser Ala Pro Val Ile Arg Glu Ser Gly
 165 170 175
 Gly Asp Phe Ala Ser Val Thr Gly Gly Thr Arg Ile Leu Ser Asp Trp
 180 185 190
 Leu Val Ile Gln Cys Ser Val Asn Pro Gly Glu Thr Phe Leu Asp Arg
 195 200 205
 Met Ile Ala Met Val Glu Gly Ala Gln Arg Arg Lys Thr Pro Asn Glu
 210 215 220
 Ile Ala Leu Thr Ile Leu Leu Val Ala Leu Thr Ile Val Phe Leu Leu
 225 230 235 240
 Ala Thr Ala Thr Leu Trp Pro Phe Ser Ala Tyr Gly Gly Thr Ala Val
 245 250 255
 Ser Ile Thr Val Leu Ile Ala Leu Leu Val Cys Leu Ile Pro Thr Thr
 260 265 270
 Ile Gly Gly Leu Leu Ser Ala Ile Gly Val Ala Gly Met Ser Arg Met
 275 280 285
 Leu Gly Ala Asn Val Ile Ala Thr Ser Gly Arg Ala Val Glu Ala Ala
 290 295 300
 Gly Asp Val Asp Val Leu Leu Leu Asp Lys Thr Gly Thr Ile Thr Leu
 305 310 315 320
 Gly Asn Arg Gln Ala Ser Asp Phe Leu Pro Ala Pro Gly Val Asp Glu
 325 330 335
 Lys Thr Leu Ala Asp Ala Ala Gln Leu Ser Ser Leu Ala Asp Glu Thr
 340 345 350
 Pro Glu Gly Arg Ser Ile Val Ile Leu Ala Lys Gln Arg Phe Asn Leu
 355 360 365
 Arg Gln Arg Asp Val Gln Ser Leu His Ala Thr Phe Val Pro Phe Thr
 370 375 380
 Ala Gln Thr Arg Met Ser Gly Ile Asn Ile Gln Asp Arg Met Ile Arg
 385 390 395 400
 Lys Gly Ser Val Asp Ala Ile Arg Arg His Ile Glu Ala Asn Asn Gly
 405 410 415
 His Phe Pro Pro Glu Val Asp His Leu Val Glu Ser Val Ala Arg Gln
 420 425 430
 Gly Ala Thr Pro Leu Val Val Ala Glu Gly Ala Ser Val Leu Gly Val
 435 440 445
 Ile Ala Leu Lys Asp Ile Val Lys Gly Gly Ile Lys Glu Arg Phe Ala
 450 455 460
 Gln Met Arg Lys Met Gly Ile Lys Thr Val Met Ile Thr Gly Asp Asn
 465 470 475 480
 Arg Leu Thr Ala Ala Ile Ala Ala Glu Ala Gly Val Asp Asp Phe
 485 490 495
 Leu Ser Glu Ala Thr Pro Glu Ala Lys Leu Ala Leu Ile Arg Gln Tyr
 500 505 510
 Gln Ala Glu Gly Arg Leu Val Ala Met Thr Gly Asp Gly Thr Asn Asp
 515 520 525
 Ala Pro Ala Leu Ala Gln Ala Asp Val Ala Val Ala Met Asn Ser Gly
 530 535 540
 Thr Gln Ala Ala Lys Glu Ala Gly Asn Met Val Asp Leu Asp Ser Asn
 545 550 555 560
 Pro Thr Lys Leu Ile Glu Val Val His Ile Gly Lys Gln Met Leu Met

				565						570					575
Thr	Arg	Gly	Ser	Leu	Thr	Thr	Phe	Ser	Ile	Ala	Asn	Asp	Val	Ala	Lys
			580					585					590		
Tyr	Phe	Ala	Ile	Ile	Pro	Ala	Ala	Phe	Ala	Ala	Thr	Tyr	Pro	Gln	Leu
		595					600					605			
Asn	Ala	Leu	Asn	Val	Met	His	Leu	His	Ser	Pro	Ala	Ser	Ala	Ile	Leu
		610				615				620					
Ser	Ala	Val	Ile	Phe	Asn	Ala	Leu	Ile	Ile	Val	Phe	Leu	Ile	Pro	Leu
		625			630					635				640	
Ala	Leu	Lys	Gly	Val	Ser	Tyr	Lys	Ala	Leu	Thr	Ala	Ala	Ala	Met	Leu
			645						650					655	
Arg	Arg	Asn	Leu	Trp	Ile	Tyr	Gly	Leu	Gly	Gly	Leu	Val	Val	Pro	Phe
		660						665				670			
Ile	Gly	Ile	Lys	Val	Ile	Asp	Met	Leu	Leu	Thr	Leu	Phe	Gly	Leu	Val
		675				680						685			

<210> 8901

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 8901

Lys	Val	Asp	Pro	Met	Thr	Met	Leu	Arg	Pro	Ala	Ile	Leu	Leu	Phe	Ile
1				5					10					15	
Leu	Leu	Ser	Leu	Ile	Thr	Gly	Gly	Leu	Tyr	Pro	Leu	Met	Thr	Thr	Ala
			20					25				30			
Leu	Gly	Gln	Trp	Trp	Phe	Gln	Asp	Gln	Ala	Asn	Gly	Ser	Leu	Ile	Ile
		35				40					45				
Gln	Asn	Gly	Glu	Asn	Arg	Gly	Ser	Arg	Leu	Ile	Gly	Gln	Asn	Phe	Thr
	50					55					60				
Asp	Pro	Arg	Tyr	Phe	Gln	Gly	Arg	Pro	Ser	Ala	Thr	Ala	Glu	Ser	Pro
	65				70				75					80	
Tyr	Asn	Pro	Met	Ala	Ser	Gly	Gly	Ser	Asn	Leu	Ala	Gly	Ser	Asn	Pro
			85					90						95	
Asp	Leu	Asp	Lys	Ala	Ile	Ala	Glu	Arg	Val	Ala	Ala	Leu	Arg	Ala	Ala
			100				105					110			
Asn	Pro	Gln	Ala	Ser	Arg	Glu	Val	Pro	Val	Glu	Leu	Val	Thr	Ala	Ser
		115					120					125			
Ala	Ser	Gly	Leu	Asp	Tyr	Ser	Leu	Thr	Pro	Asp	Ala	Val	Val	Trp	Gln
	130					135					140				
Ile	Pro	Arg	Val	Ala	Ala	Ala	Arg	Gln	Leu	Thr	Val	Glu	Gln	Val	Ser
	145				150				155					160	
Gln	Leu	Val	Ala	Glu	His	Thr	Gln	Lys	Pro	Leu	Val	Ser	Phe	Ile	Gly
			165					170						175	
Met	Pro	Val	Val	Asn	Ile	Val	Glu	Leu	Asn	Leu	Ala	Leu	Asp	Ala	Leu
			180				185						190		
Arg	Lys	Asn													
		195													

<210> 8902

<211> 896

<212> PRT

<213> Enterobacter cloacae

<400> 8902

Met	Thr	Asp	Glu	Pro	Met	Arg	Pro	Asp	Pro	Asp	Arg	Leu	Leu	Glu	Gln
1				5				10						15	
Thr	Ala	Glu	Ala	His	Arg	Gly	Lys	Leu	Lys	Ile	Phe	Phe	Gly	Ala	Cys
		20						25					30		

Ala Gly Val Gly Lys Thr Phe Ala Met Leu Thr Glu Ala Gln Arg Leu
 35 40 45
 Arg Ala Gln Gly Leu Asp Ile Leu Ile Gly Val Val Glu Thr His Gly
 50 55 60
 Arg Lys Glu Thr Ala Ala Leu Leu Thr Gly Leu Ala Thr Gln Pro Pro
 65 70 75 80
 Gln Arg Ile Ser His Arg Gly Arg Leu Val Thr Glu Phe Asp Leu Asp
 85 90 95
 Ala Ala Leu Ala Arg Arg Pro Ala Leu Ile Leu Met Asp Glu Leu Ala
 100 105 110
 His Ser Asn Ala Pro Gly Ser Arg His Pro Lys Arg Trp Gln Asp Val
 115 120 125
 Glu Glu Leu Leu Glu Ala Gly Ile Asp Val Phe Thr Thr Val Asn Val
 130 135 140
 Gln His Leu Glu Ser Leu Asn Asp Val Val Ser Gly Val Thr Gly Ile
 145 150 155 160
 Gln Val Arg Glu Thr Val Pro Asp Pro Phe Phe Asp Ser Ala Asp Glu
 165 170 175
 Val Val Leu Val Asp Leu Pro Pro Asp Asp Leu Arg Gln Arg Leu His
 180 185 190
 Glu Gly Lys Val Tyr Ile Ala Gly Gln Ala Glu Arg Ala Ile Glu His
 195 200 205
 Phe Phe Arg Lys Gly Asn Leu Ile Ala Leu Arg Glu Leu Ala Leu Arg
 210 215 220
 Arg Thr Ala Asp Arg Val Asp Asp Gln Met Arg Ala Trp Arg Asp Leu
 225 230 235 240
 Gln Gly Gln Glu Arg Val Trp His Thr Arg Asp Ala Ile Leu Leu Cys
 245 250 255
 Ile Gly His Gly Ser Gly Asn Glu Lys Leu Val Arg Thr Ala Ala Arg
 260 265 270
 Leu Ala Ala Lys Phe Gly Ser Val Trp His Ala Val Tyr Val Glu Thr
 275 280 285
 Pro Gln Leu His Gly Leu Pro Glu Asn Gln Arg Arg Ala Ile Leu Ser
 290 295 300
 Ala Leu Arg Leu Ala Gln Glu Leu Gly Ala Glu Thr Ala Thr Leu Ser
 305 310 315 320
 Asp Pro Gln Glu Asp Lys Ala Ile Leu Arg Tyr Ala Arg Glu His Asn
 325 330 335
 Leu Gly Lys Ile Val Ile Gly Arg Arg Gln His Arg Arg Trp Phe Ser
 340 345 350
 Arg Glu Ser Phe Ala Asp Arg Leu Ala Arg Arg Ala Pro Asp Leu Asp
 355 360 365
 Leu Val Ile Val Ala Leu Asp Asp Lys Pro Ala Pro Leu Pro Asn Arg
 370 375 380
 Thr Pro Asp Ala Arg Thr Phe Gly Asp Lys Trp Arg Ile Gln Ile Arg
 385 390 395 400
 Gly Cys Met Val Ala Val Val Leu Cys Ala Leu Ile Thr Val Ile Ala
 405 410 415
 Ser Gln Trp Leu Ile Ala Phe Asp Ala Ala Asn Leu Val Met Ile Tyr
 420 425 430
 Leu Leu Gly Val Val Val Val Ala Leu Phe Tyr Gly Arg Trp Pro Ser
 435 440 445
 Val Leu Ala Thr Val Ile Asn Val Ile Ser Phe Asp Leu Phe Phe Ile
 450 455 460
 Ala Pro Arg Gly Thr Leu Ala Val Ser Asp Val Gln Tyr Ile Leu Thr
 465 470 475 480
 Phe Ala Val Met Leu Thr Val Gly Leu Val Ile Gly Asn Leu Thr Ala
 485 490 495
 Gly Val Arg Tyr Gln Ala Arg Ile Ala Arg Tyr Arg Glu Gln Arg Thr
 500 505 510
 Arg His Leu Tyr Glu Met Ser Lys Ser Leu Ala Val Gly Arg Thr Gln

515 520 525
 Arg Asp Ile Val Gln Thr Ser Glu Gln Phe Ile Arg Ser Thr Phe His
 530 535 540
 Ala Ser Asn Leu Ile Leu Pro Asp Glu Gln Gly Arg Leu Arg Pro
 545 550 555 560
 Leu Thr Ser Pro Ser Gly Met Thr Pro Trp Asp Glu Ala Ile Ala Arg
 565 570 575
 Trp Ser Phe Asp Lys Gly Leu Pro Ala Gly Ala Gly Thr Asp Thr Leu
 580 585 590
 Pro Gly Val Pro Tyr Gln Ile Leu Pro Leu Arg Ser Ala Asp Lys Asn
 595 600 605
 His Gly Leu Val Ile Val Glu Pro Ser Asn Leu Arg Gln Leu Met Ile
 610 615 620
 Pro Glu Gln Gln Arg Leu Leu Glu Thr Phe Thr Leu Leu Val Ala Ser
 625 630 635 640
 Ala Leu Glu Arg Leu Ala Leu Thr Ala Ser Glu Glu Gln Ala Arg Leu
 645 650 655
 Ala Ser Glu Arg Glu Ser Ile Arg Asn Ser Leu Leu Ala Ala Leu Ser
 660 665 670
 His Asp Leu Arg Thr Pro Leu Thr Val Leu Phe Gly Gln Ser Glu Ile
 675 680 685
 Leu Thr Leu Asp Leu Ala Ala Glu Gly Ser Lys His Ala Met Gln Ala
 690 695 700
 Ser Glu Ile Arg Gln His Val Leu Asn Thr Thr Arg Leu Val Asn Asn
 705 710 715 720
 Leu Leu Asp Met Ala Arg Ile Gln Ser Gly Gly Phe Asn Leu Lys Lys
 725 730 735
 Glu Trp Leu Thr Leu Glu Glu Val Val Gly Ser Ala Leu Lys Met Leu
 740 745 750
 Glu Pro Gly Leu Gly Gly Arg His Ile Glu Leu Asp Met Pro Glu Pro
 755 760 765
 Leu Thr Leu Ile His Val Asp Gly Pro Leu Phe Glu Arg Val Leu Ile
 770 775 780
 Asn Leu Leu Glu Asn Ala Ala Lys Tyr Ala Gly Ala Lys Ala Arg Leu
 785 790 795 800
 Gly Ile Ala Ala Arg Val Asp Lys Arg Val Leu Arg Leu Asp Val Trp
 805 810 815
 Asp Thr Gly Pro Gly Ile Pro Ala Gly Gln Glu Arg Ala Ile Phe Glu
 820 825 830
 Lys Phe Ala Arg Gly Asn Lys Glu Ser Ala Ile Pro Gly Val Gly Leu
 835 840 845
 Gly Leu Ala Ile Cys Gln Ala Ile Val Asp Val His Gly Gly Thr Ile
 850 855 860
 Ser Ala Glu Asn Arg Pro Glu Gly Gly Ala Arg Phe Cys Val Thr Leu
 865 870 875 880
 Pro Leu Glu Ser Pro Pro Glu Leu Asp Glu Leu Pro Glu Asp Leu
 885 890 895

<210> 8903

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 8903

Asn Asp Arg Leu Leu Val Ile Cys Phe Thr Val Asn Pro Phe Ser Leu
 1 5 10 15
 Asp Lys Met Thr Met Leu Ser Ile Thr Glu Arg Lys Leu Asn Met Glu
 20 25 30
 Asn Asn Asn Arg Leu Met Pro His Ile Arg Arg Thr Thr His Ile Met
 35 40 45
 Met Phe Ala His Arg Asn Cys Phe Asp Phe His Leu Phe Asn Ala Arg

50

55

60

65

<210> 8904

<211> 738

<212> PRT

<213> Enterobacter cloacae

<400> 8904

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Asn Lys Glu Ile Lys Met Lys Thr Leu Lys Ile Ala Val Ser Arg Ala
1      5      10      15
Cys Pro Glu Cys Phe Thr Thr Ser Arg Asp Ile Val Asp Ile Thr Ala
20      25      30
Ser Asp Tyr Ile Asp Val Ala Ala Val Val Leu Ala Val Ser Asp Ile
35      40      45
Phe Asn Gly Ala Ile Glu Glu Ile Glu Ala Thr Gly Phe Gly Ile Pro
50      55      60
Val Phe Ile Ala Thr His Lys Glu Glu Arg Val Pro Ala Glu Phe Leu
65      70      80
Ser Arg Ile His Gly Val Phe Glu Tyr Ser Asp Thr Ser Asn Ala Tyr
85      90      95
Tyr Gly Arg Gln Leu Glu Ala Ala Ala Gln Lys Tyr Glu Thr Gln Leu
100     105     110
Arg Pro Pro Phe Phe Arg Ala Leu Val Asp Tyr Val Gln Gln Gly Asn
115     120     125
Ser Ala Phe Asp Cys Pro Gly His Gln Gly Gly Gln Phe Phe Arg Arg
130     135     140
His Pro Ala Gly Asn Gln Phe Val Asp Phe Phe Gly Glu Thr Leu Phe
145     150     155
Arg Ala Asp Leu Cys Asn Ala Asp Val Ala Met Gly Asp Leu Leu Ile
165     170     175
His Glu Gly Ala Pro Cys Ile Ala Gln Gln His Ala Ala Lys Val Tyr
180     185     190
Asn Ala Asp Lys Thr Tyr Phe Val Leu Asn Gly Thr Ser Ser Ser Asn
195     200     205
Lys Val Val Leu Asn Ala Leu Leu Thr Pro Gly Asp Leu Val Leu Phe
210     215     220
Asp Arg Asn Asn His Lys Ser Asn His His Gly Ala Leu Leu Gln Ala
225     230     235
Gly Ala Thr Pro Val Tyr Leu Glu Thr Ala Arg Asn Pro Tyr Gly Phe
245     250     255
Ile Gly Gly Ile Asp Ala His Cys Phe Asp Glu Ser Tyr Leu Arg Glu
260     265     270
Leu Val Ser Glu Val Ala Pro Gly Arg Ala Arg Asp Glu Arg Pro Phe
275     280     285
Arg Leu Ala Val Ile Gln Leu Gly Thr Tyr Asp Gly Thr Ile Tyr Asn
290     295     300
Ala Arg Gln Val Val Asp Lys Ile Gly His Leu Cys Asp Tyr Ile Leu
305     310     315
Phe Asp Ser Ala Trp Val Gly Tyr Glu Gln Phe Ile Pro Met Met Ala
325     330     335
Asp Cys Ser Pro Leu Leu Leu Glu Leu Asn Glu Asn Asp Pro Gly Ile
340     345     350
Leu Val Thr Gln Ser Val His Lys Gln Gln Ala Gly Phe Ser Gln Thr
355     360     365
Ser Gln Ile His Lys Lys Asp Ser His Ile Lys Gly Gln Ala Arg Tyr
370     375     380
Val Pro His Lys Arg Leu Asn Asn Ala Phe Met Met His Ala Ser Thr
385     390     395
Ser Pro Phe Tyr Pro Leu Phe Ala Ala Leu Asp Ile Asn Ala Arg Met
400

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              405              410              415
His Glu Gly Gln Ser Gly Arg Asn Met Trp Met Asp Cys Val Val Thr
              420              425              430
Gly Ile Glu Ala Arg Lys Leu Ile Leu Gln Asn Cys Gln Phe Ile Arg
              435              440              445
Pro Phe Val Pro Glu Thr Val Asp Gly Arg Pro Trp Glu Ser Trp Asp
              450              455              460
Thr Ala Glu Ile Ala Thr Asp Leu Arg Phe Phe His Phe Val Pro Gly
              465              470              475              480
Glu Arg Trp His Ala Phe Glu Gly Tyr Ala Glu His Gln Tyr Phe Ile
              485              490              495
Asp Pro Cys Lys Leu Leu Leu Thr Thr Pro Gly Ile Asn Ala Arg Thr
              500              505              510
Gly Glu Tyr Asp Asp Phe Gly Val Pro Ala Thr Ile Leu Ala Asn Phe
              515              520              525
Leu Arg Glu Asn Gly Ile Val Pro Glu Lys Cys Asp Leu Asn Ser Ile
              530              535              540
Leu Phe Leu Leu Thr Pro Ala Glu Asp Met Gly Lys Leu Gln Gln Leu
              545              550              555              560
Val Ala Gln Leu Val Arg Phe Glu Lys Leu Gln Ser Asp Val Pro
              565              570              575
Leu Lys Glu Val Leu Pro Ser Leu Tyr Lys Gln His Pro Glu Arg Tyr
              580              585              590
Ala Asp Tyr Thr Leu Arg Gln Ile Cys Gln Glu Met His Asp Leu Tyr
              595              600              605
Ala Arg His Asn Val Lys Gln Leu Gln Lys Glu Met Phe Arg Arg Ser
              610              615              620
His Phe Pro Arg Val Met Met Asn Pro Gln Glu Ala Asn Tyr Ala Tyr
              625              630              635              640
Leu Arg Gly Glu Val Glu Leu Val Ser Leu Arg Asp Ala Glu Gly Arg
              645              650              655
Ile Ala Ala Glu Gly Ala Leu Pro Tyr Pro Pro Gly Val Leu Cys Val
              660              665              670
Val Pro Gly Glu Val Trp Gly Gly Ser Val Leu Arg Tyr Phe Ala Ala
              675              680              685
Leu Glu Asp Gly Ile Asn Leu Leu Pro Gly Phe Ala Pro Glu Leu Gln
              690              695              700
Gly Val Tyr Val Glu Glu Cys Asp Gly Arg Lys Gln Val Arg Cys Tyr
              705              710              715              720
Val Ile Lys Gln Pro Ala Ala Gln Pro Ser Leu Leu Lys Gly Glu Lys
              725              730              735
Leu

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<210> 8905

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 8905

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Phe Pro Glu Lys Val Leu Asn Arg Arg Asp Pro Met Gly Asn Lys Pro
1              5              10              15
Met Tyr Arg Gln Ile Ala Asp Ala Phe Arg Glu Lys Ile Asn Ala Gly
              20              25              30
Glu Leu Lys Pro Gly Asp Ala Leu Pro Thr Glu Ser Ser Leu Gln Glu
              35              40              45
Ala Phe Ser Val Ser Arg Val Thr Val Arg Gln Ala Leu Lys Leu Leu
              50              55              60
Ala Asp Glu Gln Ile Ile Glu Ser Ile Gln Gly Ser Gly Ser Tyr Val
              65              70              75              80
Lys Glu Glu Arg Val Asn Tyr Asp Ile Tyr Gln Leu Thr Gly Phe Tyr

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<210> 8906
<211> 407
<212> PRT
<213> Enterobacter cloacae
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4000> 8906																		
Lys	Ala	Arg	Ser	Val	Arg	Met	Leu	Leu	Ile	Ser	Val	Arg	Trp	Val	Pro			
1				5					10					15				
Lys	Gly	Tyr	Ser	Pro	Phe	Asp	Pro	Gly	Phe	Thr	Ser	Thr	Ala	Ser	Cys			
			20					25					30					
Glu	Ser	Lys	Ile	Thr	Tyr	Ile	Asp	Gly	Asp	Glu	Gly	Ile	Leu	Leu	His			
		35					40					45						
Arg	Gly	Phe	Pro	Ile	Asp	Gln	Leu	Ala	Thr	Glu	Ser	Asn	Tyr	Leu	Glu			
	50					55				60								
Val	Cys	Tyr	Ile	Leu	Leu	Asn	Gly	Glu	Lys	Pro	Thr	Gln	Ala	Gln	Tyr			
65				70						75				80				
Asp	Glu	Phe	Lys	Thr	Thr	Val	Thr	Arg	His	Thr	Met	Ile	His	Glu	Gln			
				85				90						95				
Ile	Thr	Arg	Leu	Phe	His	Ala	Phe	Arg	Arg	Asp	Ser	His	Pro	Met	Ala			
			100					105					110					
Val	Met	Cys	Gly	Ile	Thr	Gly	Ala	Leu	Ala	Ala	Phe	Tyr	His	Asp	Ser			
		115					120					125						
Leu	Asp	Val	Asn	Asn	Pro	Arg	His	Arg	Asp	Ile	Ala	Ala	Phe	Arg	Leu			
130						135				140								
Leu	Ser	Lys	Met	Pro	Thr	Met	Ala	Ala	Met	Cys	Tyr	Lys	Tyr	Ser	Ile			
145				150					155					160				
Gly	Gln	Pro	Phe	Val	Tyr	Pro	Arg	Asn	Asp	Leu	Ser	Tyr	Ala	Gly	Asn			
				165					170					175				
Phe	Leu	Arg	Met	Met	Phe	Ser	Thr	Pro	Cys	Glu	Glu	Tyr	Glu	Val	Asn			
			180					185					190					
Pro	Val	Leu	Glu	Arg	Ala	Met	Asp	Arg	Ile	Leu	Ile	Leu	His	Ala	Asp			
		195					200					205						
His	Glu	Gln	Asn	Ala	Ser	Thr	Ser	Thr	Val	Arg	Thr	Ala	Gly	Ser	Ser			
210						215					220							
Gly	Ala	Asn	Pro	Phe	Ala	Cys	Ile	Ala	Ala	Gly	Ile	Ala	Ser	Leu	Trp			
225				230						235				240				
Gly	Pro	Ala	His	Gly	Gly	Ala	Asn	Glu	Ala	Ala	Leu	Lys	Met	Leu	Glu			
				245					250					255				
Glu	Ile	Ser	Ser	Val	Glu	His	Ile	Pro	Glu	Phe	Val	Arg	Arg	Ala	Lys			

260	265	270
Asp Lys Asn Asp Ser Phe Arg Leu Met Gly Phe Gly His Arg Val Tyr		
275	280	285
Lys Asn Tyr Asp Pro Arg Ala Thr Val Met Arg Glu Thr Cys His Glu		
290	295	300
Val Leu Lys Glu Leu Gly Thr Lys Asp Asp Leu Leu Glu Val Ala Met		
305	310	315
Glu Leu Glu His Ile Ala Leu Asn Asp Pro Tyr Phe Ile Glu Lys Lys		
325	330	335
Leu Tyr Pro Asn Val Asp Phe Tyr Ser Gly Ile Ile Leu Lys Ala Met		
340	345	350
Gly Ile Pro Ser Ser Met Phe Thr Val Ile Phe Ala Met Ala Arg Thr		
355	360	365
Val Gly Trp Ile Ala His Trp Asn Glu Met His Ser Glu Gly Met Lys		
370	375	380
Ile Ala Arg Pro Arg Gln Leu Tyr Thr Gly Tyr Glu Gln Arg Asp Phe		
385	390	395
Lys Ser Asp Leu Lys Arg		400
405		

<210> 8907

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 8907

Ile Thr Arg Gly Phe Val Ile Asn Val Leu Ile Val Glu Asp Glu Leu		
1	5	10
Ala Ile Ser Arg Phe Leu Arg Thr Ala Leu Glu Gly Asp Gly Leu Arg		
20	25	30
Val His Glu Ala Gly Thr Leu Gln Arg Gly Leu Ile Glu Ala Ala Thr		
35	40	45
Arg Lys Pro Asp Leu Val Ile Leu Asp Leu Gly Leu Pro Asp Gly Asp		
50	55	60
Gly Ile Asp Phe Ile Arg Glu Val Arg Gln Trp Ser Gln Met Pro Ile		
65	70	75
Leu Val Leu Ser Ala Arg Thr Glu Glu Thr Asp Lys Ile Ala Ala Leu		
85	90	95
Asp Ala Gly Ala Asp Asp Tyr Leu Ile Lys Pro Phe Gly Ile Gly Glu		
100	105	110
Leu Gln Ala Arg Leu Arg Val Ala Leu Arg Arg His Ser Ala Thr Ser		
115	120	125
Pro Ser Asp Pro Val Tyr Ala Phe Gly Asp Ile Arg Val Asp Leu Ala		
130	135	140
Ala Arg Arg Ile Val Arg Gly Glu Glu Glu Ile His Leu Thr Pro Ile		
145	150	155
Glu Phe Arg Leu Leu Ala Val Leu Leu Asn Asn His Gly Lys Val Leu		
165	170	175
Thr Gln Arg Gln Leu Leu Ser Gln Val Trp Gly Pro Asn Ala Val Glu		
180	185	190
His Ser His Tyr Leu Arg Ile Tyr Met Gly His Leu Arg Gln Lys Leu		
195	200	205
Glu Ala Asp Pro Ala Arg Pro Arg His Leu Leu Thr Glu Thr Gly Ile		
210	215	220
Gly Tyr Arg Phe Met Ile		
225	230	

<210> 8908

<211> 463

<212> PRT

<213> Enterobacter cloacae

<400> 8908

Arg Ser Gln Thr Gly Ala Leu Leu Arg His Gln Thr Thr Cys Arg Ser
 1 5 10 15
 Ala Ile Ala Ala Glu Arg Arg Lys Ile Met Ser Lys Ala Asn Lys Met
 20 25 30
 Gly Val Val Gln Leu Thr Ile Leu Thr Met Val Asn Met Met Gly Ser
 35 40 45
 Gly Ile Ile Met Leu Pro Thr Lys Leu Ala Glu Val Gly Thr Ile Ser
 50 55 60
 Ile Ile Ser Trp Leu Val Thr Ala Val Gly Ser Met Ala Leu Ala Trp
 65 70 75 80
 Ala Phe Ala Lys Cys Gly Met Phe Ser Arg Lys Ser Gly Gly Met Gly
 85 90 95
 Gly Tyr Ala Glu Tyr Ala Phe Gly Lys Ser Gly Asn Phe Met Ala Asn
 100 105 110
 Tyr Thr Tyr Gly Val Ser Leu Leu Ile Ala Asn Val Ala Ile Ala Ile
 115 120 125
 Ser Ala Val Gly Tyr Gly Thr Glu Leu Phe Gly Ala Thr Leu Thr Pro
 130 135 140
 Val Gln Ile Gly Leu Ala Thr Ile Gly Val Leu Trp Ile Cys Thr Val
 145 150 155 160
 Ala Asn Phe Gly Gly Ala Arg Ile Thr Gly Gln Leu Ser Ser Ile Thr
 165 170 175
 Val Trp Gly Val Ile Ile Pro Val Val Gly Leu Cys Ile Ile Gly Trp
 180 185 190
 Phe Trp Phe Ser Pro Thr Leu Tyr Ala Asn Ser Trp Asn Pro His His
 195 200 205
 Val Pro Phe Phe Thr Ala Val Gly Ser Ser Ile Ala Met Thr Leu Trp
 210 215 220
 Ala Phe Leu Gly Leu Glu Ser Ala Cys Ala Asn Ala Glu Val Val Glu
 225 230 235 240
 Asn Pro Glu Lys Asn Val Pro Ile Ala Val Leu Gly Gly Thr Leu Gly
 245 250 255
 Ala Ala Val Ile Tyr Ile Val Ser Thr Asn Val Ile Ala Gly Ile Val
 260 265 270
 Pro Asn Met Asp Leu Ala Asn Ser Thr Ala Pro Phe Gly Leu Ala Phe
 275 280 285
 Ala Gln Met Phe Thr Pro Glu Val Gly Lys Val Ile Met Gly Leu Met
 290 295 300
 Val Met Ser Cys Cys Gly Ser Leu Leu Gly Trp Gln Phe Thr Ile Ala
 305 310 315 320
 Gln Val Phe Lys Ser Ser Ala Asp Glu Gly Tyr Phe Pro Lys Ile Phe
 325 330 335
 Ser Arg Val Thr Lys Ala Asp Ala Pro Val Gln Gly Met Leu Ala Ile
 340 345 350
 Val Ile Phe Gln Ser Gly Leu Ser Leu Met Thr Ile Ser Pro Ser Leu
 355 360 365
 Asn Ser Gln Phe Asn Val Leu Val Asn Leu Ala Val Val Thr Asn Ile
 370 375 380
 Ile Pro Tyr Ile Leu Ser Met Ala Ala Leu Val Ile Ile Gln Lys Val
 385 390 395 400
 Ala Lys Val Asp Pro Arg Lys Ala Arg Ala Asn Ile Val Ala Leu
 405 410 415
 Ile Gly Ala Ile Tyr Ser Phe Tyr Ala Leu Tyr Ser Ser Gly Gln Glu
 420 425 430
 Ala Met Leu Tyr Gly Ala Met Val Thr Phe Met Gly Trp Thr Leu Tyr
 435 440 445
 Gly Leu Val Ser Pro Arg Phe Glu Leu Lys Asn Lys His Ser
 450 455 460

<210> 8909

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 8909

Glu Gly Ile Leu Met Ser Val Gln Gln Thr Lys Ala Glu Leu Leu Leu
 1 5 10 15
 Ala Ile Asp Lys Asn Phe Ser Lys Leu Ile Ser Tyr Leu Lys Ala Ile
 20 25 30
 Pro Pro Glu Ile Thr Ser Asp Asn Ser Met Asp Gly His Ala Lys Gly
 35 40 45
 Thr Glu Met Ser Val Arg Asp Leu Val Ser Tyr Leu Ile Gly Trp Asn
 50 55 60
 Ala Leu Val Val Lys Trp Ile Thr Ser Asp Ala Lys Gly Leu Pro Val
 65 70 75 80
 Asp Phe Pro Glu Thr Gly Tyr Lys Trp Asn Gln Leu Gly Leu Leu Ala
 85 90 95
 Gln Lys Phe Tyr Ser Asp Tyr Ser Gly Leu Thr Tyr Glu Leu Leu Ile
 100 105 110
 Ile Glu Leu Gln Thr Val Lys Asn Glu Leu Val Lys Leu Ile Asp Glu
 115 120 125
 Arg Thr Asp Asp Ile Leu Tyr Gly Arg Pro Trp Tyr Thr Lys Trp Thr
 130 135 140
 Met Gly Arg Met Ile Ser Phe Asn Thr Ser Ser Pro Tyr Ala Asn Ala
 145 150 155 160
 Asn Gly Arg Leu Arg Lys Trp Ala Lys Asn Asn Ile Ser Leu Lys
 165 170 175

<210> 8910

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 8910

Asn Tyr Met Asp Glu Lys Ser Leu Tyr Ala His Ile Leu Asn Leu Thr
 1 5 10 15
 Ala Pro Trp Gln Val Lys Ser Leu Thr Leu Asp Glu Asn Ala Gly Ser
 20 25 30
 Val Thr Val Thr Val Gly Ile Ala Glu Asn Ile Gln Leu Thr Cys Pro
 35 40 45
 Thr Cys Gly Lys Ser Cys Pro Val His Asp His Arg His Arg Lys Trp
 50 55 60
 Arg His Leu Asp Thr Cys Gln Phe Ala Thr Leu Val Glu Ala Asp Val
 65 70 75 80
 Pro Arg Ile Met Cys Pro Asp His Gly Cys Gln Thr Leu Pro Val Pro
 85 90 95
 Trp Ala Gly Pro Gly Ser Arg Tyr Thr Leu Leu Phe Glu Ser Phe Val
 100 105 110
 Ile Ser Trp Leu Lys Ile Ser Thr Val Asp Ala Val Arg Lys Gln Leu
 115 120 125
 Arg Leu Ser Trp Asn Ala Val Asp Asn Ile Met Gln Arg Ala Val Lys
 130 135 140
 Arg Gly Leu Ala Arg Arg Lys Ala Pro Gln Ser Ala Arg His Leu Cys
 145 150 155 160
 Val Asp Glu Val Ala Phe Lys Lys Gly His Gln Tyr Val Thr Val Ile
 165 170 175
 Ser Asp Thr Gln Gly Gln Ala Leu Glu Leu Arg Asp Asp Arg Gly Val
 180 185 190

Glu Ser Leu Ala Gly Tyr Leu
195 200

<210> 8911

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 8911

Ser Leu Gly Asp Arg Gln Ile Glu Ser Ile Lys Thr Leu Ser Met Asp
1 5 10 15
Met Asn Gln Ala Tyr Ile Ser Ala Ala Arg Ile His Leu Pro Asn Ala
20 25 30
Val Glu Lys Ile Ala Phe Asp His Phe His Val Ala Lys Met Leu Cys
35 40 45
Ala Val Val Asp Lys Thr Arg Gln Ser Glu Met Arg Ile Ile Pro Leu
50 55 60
Gln Ala Arg Lys Ser Ala His Arg Ser Arg Tyr Leu Trp Leu Tyr Gly
65 70 75 80
Arg His Lys Arg His Gly Arg Ile Ala Glu Arg Leu Glu Ala Ala Gln
85 90 95
Met Val Leu Pro Cys Gln Arg Gln
100 105

<210> 8912

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 8912

Gly Ala Ala Val Met Tyr Glu Leu Glu Thr Leu Leu Asn Arg Leu Lys
1 5 10 15
Met Glu His Leu Ser Tyr His Val Glu Asn Leu Leu Glu Gln Ala Ala
20 25 30
Lys Gln Glu Leu Asn Tyr Arg Glu Phe Leu Cys Met Ala Leu Gln Gln
35 40 45
Glu Trp Ser Gly Arg His Gln Arg Gly Met Glu Ala Arg Leu Lys Gln
50 55 60
Ala Arg Leu Pro Trp Val Lys Thr Leu Glu Gln Phe Asp Phe Ser Phe
65 70 75 80
Gln Pro Gly Ile Asp Arg Lys Val Val Arg Glu Leu Ala Ser Leu Ala
85 90 95
Phe Val Glu Arg Ser Glu Asn Val Ile Leu Leu Gly Pro Pro Gly Val
100 105 110
Gly Lys Thr His Leu Ala Val Ala Leu Gly Val Lys Ala Ala Asp Ala
115 120 125
Gly His Arg Val Leu Phe Met Pro Leu Asp Arg Leu Val Ala Thr Leu
130 135 140
Ile Lys Ala Lys Gln Glu Asn Arg Leu Glu Arg Gln Leu Gln Gln Leu
145 150 155 160
Ser Tyr Ala Arg Val Leu Ile Leu Asp Glu Ile Gly Tyr Leu Pro Met
165 170 175
Asn Arg Glu Glu Ala Ser Leu Phe Phe Arg Leu Leu Asn Arg Arg Tyr
180 185 190
Glu Lys Ala Ser Ile Ile Leu Thr Ser Asn Lys Gly Phe Ala Asp Trp
195 200 205
Gly Glu Met Phe Gly Asp Asn Val Leu Ala Thr Ala Ile Leu Asp Arg
210 215 220
Leu Leu His His Ser Thr Thr Leu Asn Ile Lys Gly Glu Ser Tyr Arg
225 230 235 240
Leu Lys Glu Lys Arg Lys Ala Gly Val Leu Ala Lys Ser Ala Thr Pro

245 250 255
 Ile Ser Asp Val Glu Met Val Glu Ser Gly Gln Arg
 260 265

<210> 8913
 <211> 400
 <212> PRT
 <213> Enterobacter cloacae

<400> 8913
 Gly Ser His Thr Glu Lys Asp Ser Ser Met Leu Ser Arg Glu Asp Phe
 1 5 10 15
 Phe Met Ile Lys Gln Met Arg Gln Gln Gly Ala Tyr Ile Val Asp Ile
 20 25 30
 Ala Thr Gln Val Gly Cys Ser Glu Arg Thr Val Arg Tyr Leu Lys
 35 40 45
 Tyr Pro Glu Pro Pro Ala Arg Lys Thr Arg His Lys Met Ala Lys Leu
 50 55 60
 Lys Pro Phe Met Asp Tyr Ile Asp Met Arg Leu Ala Glu Asn Val Trp
 65 70 75 80
 Asn Ser Glu Val Ile Leu Ala Glu Ile Arg Thr Met Gly Tyr Thr Gly
 85 90 95
 Gly Arg Ser Met Leu Arg Tyr Tyr Ile Gln Pro Lys Arg Lys Met Arg
 100 105 110
 Pro Ser Lys Lys Thr Val Arg Phe Glu Thr Gln Pro Gly Tyr Gln Leu
 115 120 125
 Gln His Asp Trp Gly Glu Val Glu Val Asp Val Ala Gly Gln Arg Cys
 130 135 140
 Arg Val Asn Phe Ala Val Asn Thr Leu Gly Phe Ser Arg Arg Phe His
 145 150 155 160
 Val Phe Ala Ala Pro Lys Gln Asp Ala Glu His Thr Tyr Glu Ser Leu
 165 170 175
 Val Arg Ala Phe Arg Tyr Phe Gly Gly Ser Val Lys Thr Val Leu Val
 180 185 190
 Asp Asn Gln Lys Ala Ala Val Leu Lys Asn Ser Asn Gly Asn Val Val
 195 200 205
 Phe Asn Ala Gly Phe Leu Leu Leu Ala Asp His Tyr Gly Phe Leu Pro
 210 215 220
 Arg Ala Cys Arg Pro Arg Arg Ala Arg Thr Lys Gly Lys Val Glu Arg
 225 230 235 240
 Met Val Lys Tyr Leu Lys Glu Asn Phe Phe Val Arg Tyr Arg Arg Phe
 245 250 255
 Asp Ser Phe Pro His Val Asn Gln Leu Leu Glu Gln Trp Ile Ala Asp
 260 265 270
 Val Ala Asp Arg Arg Glu Leu Arg Gln Phe Arg Glu Thr Pro Ala Glu
 275 280 285
 Arg Phe Val Val Glu Gln Thr His Leu Gln Pro Leu Pro Ala Thr Asp
 290 295 300
 Phe Asp Thr Ser Tyr Phe Asp Ile Arg His Val Ser Trp Asp Gly Tyr
 305 310 315 320
 Ile Glu Val Gly Gly Asn Arg Tyr Ser Val Pro Glu Ser Leu Cys Gly
 325 330 335
 His Pro Val Ser Ile Arg Ile Ser Leu Asp Asp Glu Leu Arg Ile Tyr
 340 345 350
 Ser Asn Glu Asn Leu Ala Ala Thr His Arg Leu Ser Gly Ala Ser Ser
 355 360 365
 Gly Trp Gln Thr Val Pro Glu His His Ala Pro Leu Trp Gln Gln Val
 370 375 380
 Ser Gln Val Glu His Arg Pro Leu Ser Ala Tyr Glu Glu Leu Leu
 385 390 395 400

<210> 8914

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 8914

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Gln Pro Glu Thr Ser Arg Cys Trp Ala Met Lys Glu Met Ala Arg Glu
1          5          10          15
Leu Trp Asn Arg Arg Tyr Asp Gly His Ser Arg Arg Leu Trp Leu Glu
          20          25          30
Trp Ile Ala Met Ala Lys Asp Val Gly Val Pro Gln Leu Ser Ser Ala
          35          40          45
Ala Arg Thr Leu Arg Lys Arg Leu Tyr Gly Ile Leu Asn Ala Met Lys
          50          55          60
His Arg Val Ser Asn Gly Asn Ala Glu Ser Leu Asn Ser Lys Ile Arg
65          70          75          80
Leu Leu Arg Ile Lys Ser Arg Gly Tyr Arg Asn Lys Glu Arg Phe Lys
          85          90          95
Ile Ala Val Met Phe His Tyr Gly Arg Leu Asn Met Gly Leu
          100          105          110

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<210> 8915

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 8915

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Cys Ala Pro Asp Thr Pro Arg Ser Arg Gly Val Ser Leu Phe Leu Thr
1          5          10          15
Gly Glu Met Ile Met Ser Ser Arg Gly Val Asn Lys Val Ile Leu Val
          20          25          30
Gly Asn Leu Gly Gln Asp Pro Glu Val Arg Tyr Ile Pro Asn Gly Ser
          35          40          45
Ala Val Ala Thr Leu Ser Leu Ala Thr Ser Glu Ser Trp Arg Asp Lys
          50          55          60
Gln Ser Gly Glu Gln Lys Glu Val Thr Glu Trp His Arg Val Val Ile
65          70          75          80
Phe Gly Lys Leu Ala Glu Ile Ala Gly Glu Tyr Leu Arg Lys Gly Ser
          85          90          95
Gln Val Tyr Ile Glu Gly Gln Leu Arg Thr Arg Lys Trp Thr Asp Gln
          100          105          110
Ala Gly Gln Asp Lys Tyr Thr Thr Glu Val Val Val Asn Ile Gly Gly
          115          120          125
Thr Met Gln Met Leu Gly Gly Arg Gln Ser Gly Ser Gly Gln Asn Thr
          130          135          140
Ser Ser Arg Asn Asp Trp Gly Gln Pro Gln Gln Pro Ser Gly Pro Thr
145          150          155          160
His Ser Gly Gln Ala Ser Gly Ser Ser Ala Gly Ala Pro Pro Met Asp
          165          170          175
Phe Asp Asp Asp Ile Pro Phe Ile Gly Phe Gly Tyr Gly Val Pro Lys
          180          185          190
Ser Ala Ile His Ala Leu
          195

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<210> 8916

<211> 704

<212> PRT

<213> Enterobacter cloacae

<400> 8916

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Arg Arg Gln Thr Met Ser Asn Arg Tyr Val Ile Glu Ala Leu Leu Arg

```


1	5	10	15
Pro Ala Val Glu	Leu Asn Thr Ala	Val Val Ser Gly	Met Ala Tyr
20	25	30	
Val Cys Val Gln	Ala Pro Trp Ala	Val Ala Leu Ala	Pro Ser Val Ser
35	40	45	
Tyr Val Thr Ala	Ala Gly Phe Ala	Ala Leu Val Thr	Arg Thr His
50	55	60	
Gln Gly Met Lys	Ile Ile Arg Tyr	Arg Arg Asn Leu	Arg Arg Leu Pro
65	70	75	80
Arg Tyr Val Met	Ser Thr Lys Gln	Ile Pro Val Ser	His Arg Arg Leu
85	90	95	
Phe Leu Gly Arg	Gly Phe Arg Trp	Thr Gln Lys His	Thr Gln Arg Leu
100	105	110	
Gln Asp Thr Leu	Arg Pro Glu Val	Ala Arg Tyr Leu	Gln Pro Asn Arg
115	120	125	
Phe Tyr Gln Gly	Ala Arg Gln Leu	Glu Leu Thr Pro	Glu His Arg Leu
130	135	140	
Pro Trp Leu Gly	Lys Leu Leu Ser	Ala Asp Thr Pro	Leu Asn Pro Val
145	150	155	160
Arg Pro Leu Pro	Pro Val Gly Gly	Asn Pro Ala Leu	His Gly Ile Glu
165	170	175	
Pro Asp Glu Lys	Asp Val Thr Leu	Ala Leu Gly Glu	Arg Val Gly His
180	185	190	
Thr Val Val Tyr	Gly Thr Thr Arg	Val Gly Lys Thr	Arg Leu Ala Glu
195	200	205	
Leu Leu Val Thr	Gln Asp Ile Arg	Arg Gly Glu Val	Thr Ile Val Phe
210	215	220	
Asp Pro Lys Gly	Asp Ala Asp Leu	Met Lys Arg Val	Trp Ala Glu Ala
225	230	235	240
His Arg Ala Gly	Arg Gly Asp Glu	Leu Tyr Ile Phe	His Leu Gly Trp
245	250	255	
Pro Glu Ile Ser	Ala Arg Tyr Asn	Ala Val Gly Arg	Phe Gly Arg Val
260	265	270	
Ser Glu Val Ala	Ser Arg Val Ala	Gly Gln Leu Ser	Gly Glu Gly Asn
275	280	285	
Ser Ala Ala Phe	Arg Glu Phe Ala	Trp Arg Phe Val	Asn Ile Ile Ala
290	295	300	
Arg Ala Leu Val	Ala Leu Gly Glu	Arg Pro Asp Tyr	Thr Leu Ile Met
305	310	315	320
Arg Tyr Val Asn	Asn Ile Ala Asp	Leu Tyr Ile Arg	Tyr Ala Glu Lys
325	330	335	
Ile Ile Gln Ala	Gln Leu Pro Ala	Leu Gln Thr Gln	Ile Glu Asn Asn
340	345	350	
Gln Gln Val Leu	Gly Glu Asp Asp	Val Pro Arg Asn	Met Gln Gly Gln
355	360	365	
Pro Asp Ala Leu	Arg Ile Trp Ala	Ile Glu Val Ala	Leu Ser Ser Glu
370	375	380	
Glu Gly Lys Lys	Leu Tyr Asp Pro	Ile Leu Asp Gly	Leu Arg Ser Ala
385	390	395	400
Val Arg Tyr Asp	Arg Thr Tyr Phe	Asp Lys Ile Val	Ala Ser Leu Leu
405	410	415	
Pro Leu Leu Glu	Lys Leu Thr Thr	Gly Lys Thr Ala	Glu Leu Leu Ser
420	425	430	
Pro Asp Tyr Gln	Asp Ile Asp Asp	Thr Arg Pro Ile	Phe Asp Trp Glu
435	440	445	
Gln Ile Ile Arg	Lys Lys Ala Val	Val Tyr Val Gly	Leu Asp Ala Leu
450	455	460	
Ser Asp Ser Glu	Val Ala Ser Ala	Val Gly Asn Ser	Met Phe Ala Asp
465	470	475	480
Leu Val Ser Val	Ala Gly His Ile	Tyr Lys His Gly	Ile Asn Ala Gly
485	490	495	

Leu Pro Gly Gly Lys Glu Gly Lys Ser Leu Ile Asn Leu His Cys Asp
 500 505 510
 Glu Phe Asn Glu Leu Met Gly Asp Glu Phe Ile Pro Leu Ile Asn Lys
 515 520 525
 Gly Gly Gly Ala Gly Met Gln Val Thr Ala Tyr Thr Gln Thr Ser Ser
 530 535 540
 Asp Ile Glu Ala Arg Ile Gly Asn Ala Ala Lys Thr Ala Gln Val Gln
 545 550 555 560
 Gly Asn Phe Asn Asn Leu Ile Met Leu Arg Val Arg Glu Asn Arg Thr
 565 570 575
 Ala Glu Leu Leu Thr Thr Gln Leu Pro Gln Val Glu Ile Tyr Thr Lys
 580 585 590
 Thr Leu Val Ser Gly His Gln Asp Thr Ala Asp Val Asn Ala Asp Gln
 595 600 605
 Asp Phe Thr Ser Ser Thr Gln Asp Arg Val Gly Thr Val Lys Val Pro
 610 615 620
 Leu Leu Glu Pro Ala Asp Ile Val Thr Leu Pro Lys Gly Gln Ala Phe
 625 630 635 640
 Ala Leu Leu Glu Gly Gly Gln Leu Trp Lys Ile Arg Met Pro Leu Pro
 645 650 655
 Ala Gly Asp Ala Asp Asp Val Leu Met Pro Glu Ser Ile Glu Lys Ile
 660 665 670
 Ala Glu Glu Met Arg Arg Ser Tyr His Ser Gly Glu Ser Trp Trp Arg
 675 680 685
 Asp Gly Pro Ala Leu Asn Val Pro Val Thr Gly Gly Ala Asn Gly
 690 695 700

<210> 8917

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 8917

Arg Gly Arg Gln His Met Gln Leu Phe Leu Cys Glu Lys Pro Ser Gln
 1 5 10 15
 Ala Lys Asp Ile Ala Arg Val Leu Gly Ile Ser Lys Arg Glu Gln Gly
 20 25 30
 Phe Ile Ser Gly Gly Asn Ile Val Val Thr Trp Ala Val Gly His Leu
 35 40 45
 Leu Glu Thr Ala Ser Pro Glu Ala Tyr Gly Glu Gln Tyr Gly Arg Pro
 50 55 60
 Trp Arg Ala Asp Val Leu Pro Val Leu Pro Glu Ala Trp Lys Met Val
 65 70 75 80
 Val Lys Glu Gln Thr Lys Ser Gln Phe Thr Val Ile Ser Lys Leu Leu
 85 90 95
 Lys Lys Ala Ser Glu Val Val Ile Ala Thr Asp Ala Asp Arg Glu Gly
 100 105 110
 Glu Val Ile Ala Arg Glu Leu Leu Glu Tyr Cys His Tyr Ser Gly Ala
 115 120 125
 Val Arg Arg Leu Trp Leu Ser Ala Leu Asp Glu Ala Ser Val Lys Glu
 130 135 140
 Ala Leu Ser Ser Ile Leu Pro Gly Glu Lys Thr Ala Leu Leu Tyr Asp
 145 150 155 160
 Ala Gly Lys Gly Arg Ser Gln Ala Asp Trp Leu Ile Gly Met Asn Leu
 165 170 175
 Thr Arg Leu Tyr Thr Leu Lys Ala Arg Asp Ser Gly Val Ser Glu Val
 180 185 190
 Leu Ser Val Gly Arg Val Gln Thr Pro Thr Leu Ala Met Val Val Asn
 195 200 205
 Arg Asp Asn Glu Ile Thr Ser Phe Val Pro Lys Pro Trp Trp Gln Val
 210 215 220

His Ala Leu Ile Glu Lys Glu Gly Val Arg Phe Arg Ala Gly Trp Val
 225 230 235 240
 Pro Val Glu Gln Tyr Cys Asp Glu Glu Lys Arg Cys Ile Asn Pro Gln
 245 250 255
 Ala Ala Arg Ala Val Gly Gln Leu Cys Gln Gln Gly Arg Ala Thr
 260 265 270
 Val Leu Glu Val Thr Gln Lys Arg Glu Lys Thr Ala Ala Pro Leu Cys
 275 280 285
 Phe Asp Leu Gly Thr Leu Gln Gln Val Cys Ser Arg Lys Phe Gly Met
 290 295 300
 Gly Ala Asn Asp Val Leu Ala Ile Ala Gln Ser Leu Tyr Glu Thr His
 305 310 315 320
 Lys Ala Thr Thr Tyr Pro Arg Thr Asp Cys Gly Phe Leu Pro Thr Ser
 325 330 335
 Met Gln Gln Glu Ile Pro Asp Val Leu Ala Val Ala Lys Ser Asp
 340 345 350
 Pro Ala Val Ala Pro Val Leu Asn Gln Leu Asp Arg Lys Phe Val Ser
 355 360 365
 Arg Val Trp Asn Asp Lys Lys Ile Thr Ala His His Ala Ile Ile Pro
 370 375 380
 Thr Arg Gln Ala Phe Asp Leu Ser Arg Leu Ser Ala Asp Glu Leu Lys
 385 390 395 400
 Val Tyr Gln Leu Ile Arg Gln His Tyr Phe Ala Gln Phe Leu Pro Leu
 405 410 415
 Gln Glu Ser Asp Val Thr Glu Ala Ser Phe Asn Ile Gly Gly Gln Leu
 420 425 430
 Phe Arg Thr Arg Gly Lys Val Gly Val Val Thr Gly Trp Lys Ser Leu
 435 440 445
 Phe Gln Ala Glu Lys Asp Asp Asp Glu Glu Asp Ala Asp Gly Asp Ser
 450 455 460
 Met Ala Leu Pro Ala Leu Ala Lys Gly Asp Ile Cys Ala Val Thr Gly
 465 470 475 480
 Ala Glu Val Lys Asp Met Lys Thr Ser Pro Lys Pro Phe Thr Glu
 485 490 495
 Gly Thr Leu Ile Ala Ala Met Lys Asn Ala Ala Ser Phe Val Ser Asp
 500 505 510
 Pro Lys Leu Lys Lys Val Leu Arg Asp Asn Ala Gly Leu Gly Thr Glu
 515 520 525
 Ala Thr Arg Ala Gly Val Leu Glu Thr Leu Phe Lys Arg His Tyr Leu
 530 535 540
 Glu Lys Lys Gly Lys His Ile His Ser Thr Gln Val Ala Arg Glu Leu
 545 550 555 560
 Ile Ala Ala Leu Pro Glu Thr Leu Thr Ser Pro Gly Met Thr Ala Leu
 565 570 575
 Trp Glu Gln Ala Leu Asp Asp Ile Ser Gln Gly Lys Met Ser Leu Ala
 580 585 590
 Val Phe Met Gln Lys Gln Leu Gln Trp Thr Arg His Leu Val Glu Lys
 595 600 605
 Gly Arg Gln Asp Ser Val Lys Ile Thr Ala Pro Val Thr Pro Pro Cys
 610 615 620
 Pro Leu Cys Lys Gly Pro Thr Arg Lys Arg Lys Gly Lys Asn Gly Asp
 625 630 635 640
 Phe Trp Gly Cys Ile Arg Tyr Pro Asp Cys Glu Gly Ile Ile Ser Thr
 645 650 655
 Gly Lys Lys Lys Ala Ala Lys Arg Lys Lys Thr Ser Val Lys Ala Lys
 660 665 670
 Thr Glu
 675

<210> 8918

<211> 193

<212> PRT

<213> *Enterobacter cloacae*

<400> 8918

Ala Val Met Ser Ala Pro Tyr Ile Asn Gly Leu Leu Met Ala His Pro
 1 5 10 15
 Tyr Gly Ala Val Ile Leu Val Val Leu Phe Leu Val Val Met Val Phe
 20 25 30
 Leu Asn Leu Arg Arg Arg Glu Lys Ala Ser Thr Arg Arg His Arg Arg
 35 40 45
 Tyr Arg Ala Thr Ala Gly Arg Val Leu Asn Lys Leu Asn Ser Leu Pro
 50 55 60
 Gly Asp Gly Gln Arg Leu Thr Tyr Leu Arg Lys Ile Ser Pro Tyr Val
 65 70 75 80
 Phe Glu Glu Leu Leu Ser Ala Phe Glu Arg Gln Gly Leu Thr Val
 85 90 95
 Val Arg Asn Ala Ser Tyr Ser Ala Asp Gly Gly Leu Asp Gly Gln Val
 100 105 110
 Ile Ile Asp Gly Glu Tyr Trp Leu Ile Gln Ala Lys Arg Tyr Ser Arg
 115 120 125
 Ala Val Ser Pro Ala His Val Glu Asp Phe Asp Arg Leu Leu Leu Gln
 130 135 140
 Thr Gly Arg Arg Gly Leu Phe Val His Thr Gly Arg Thr Gly Lys Met
 145 150 155 160
 Ser Arg Ala Ile Arg Thr Thr Ser Pro Arg Leu Arg Ile Ile Ser Gly
 165 170 175
 Gln Arg Leu Leu Thr Ile Leu Ala Gly Gln Asp Val Arg Gln Tyr Leu
 180 185 190

<210> 8919

<211> 494

<212> PRT

<213> *Enterobacter cloacae*

<400> 8919

Tyr Leu Met Arg Lys Thr Val Lys Lys Thr Pro Ser Phe Ser Ala Ala
 1 5 10 15
 Arg Val Ser Leu Leu Leu Thr Gly Ser Leu Leu Thr Val Leu Pro Ala
 20 25 30
 Ala His Ala Ala Asp Asp Asp Asn Thr Ile Leu Gly Met Ser Leu Pro
 35 40 45
 Gln Val Asn Asn Ser Ala Ile Gly Tyr Gly Lys Ser Val Asp Gly Ala
 50 55 60
 Val Ser Asp Lys Leu Phe Tyr Thr Leu Gly Gly Gly Ser Val Ile Ser
 65 70 75 80
 Gln Pro Ala Thr Arg Gly Asn Met Gln Lys Leu Gly Leu Asn Thr Gly
 85 90 95
 Trp Ser Ser Asp Leu Met Cys Gly Asn Phe Asp Leu Lys Thr Thr Val
 100 105 110
 Gly Asn Gln Leu Asn Gly Val Thr Ser Gly Phe Lys Asn Leu Met Gly
 115 120 125
 Asp Val Ile Gln Gly Ala Thr Gly Ala Val Ala Ser Leu Pro Ala Met
 130 135 140
 Val Ile Gln Arg Ala Asn Pro Gly Leu Tyr Asp Met Leu Thr Asn Gly
 145 150 155 160
 Val Leu Gln Ala Asn Val Ser Phe Asp Lys Ala Gln Leu Asn Cys Gln
 165 170 175
 Asn Met Ala Lys Lys Met Met Asp Phe Ser Asp Ser Ser Asn Trp Thr
 180 185 190

Gln Gln Ala Met Met Asp Glu Tyr Lys Ser Val Val Asn Ser Gly Asp
 195 200 205
 Thr Asp Ala Val Arg Ala Asp Glu Ala Gly Arg Lys Val Thr Gly Thr
 210 215 220
 Ser Gly Asn Asn Trp Ile Gly Gly Gln Lys Arg Gly Gly Ala Gly Gln
 225 230 235 240
 Pro Ala Ile Arg Val Thr His Asp Leu Val Ala Ala Gly Tyr Asn Met
 245 250 255
 Met Asn Gly Leu Pro Val Thr Ala Asn Ser Thr Val Gly Glu Ser Ser
 260 265 270
 Cys Asn Gly Gly Ala Cys Ser Lys Phe Gly Ser Ala Glu Glu Ala Ala
 275 280 285
 Ala Met Thr Val Lys Val Leu Gly Asp Arg Ser Met Arg Thr Cys Ala
 290 295 300
 Asn Ala Ser Glu Cys Thr Ser Gly Asp Ala Asp Asp Gln Pro Gly Thr
 305 310 315 320
 Thr Val Ala Gly Thr Gly Phe Ala Pro Leu Leu Glu Glu Ala Thr Lys
 325 330 335
 Ala Asn Ala Glu Gln Leu Val Arg Leu Val Asn Gly Thr Glu Lys Pro
 340 345 350
 Thr Ala Ala Asn Leu Ala Lys Leu Lys Thr Gly Gly Leu Pro Val Thr
 355 360 365
 Ala Gly Val Ile Lys Ala Leu Gln Arg Asp Pro Asp Asn Ala Ala Leu
 370 375 380
 Thr Ala Arg Leu Ala Gly Glu Leu Ala Met Ser Asp Thr Val Glu Thr
 385 390 395 400
 Ala Leu Leu Met Arg Arg Met Met Val Thr Gly Met Ser Glu Pro Asn
 405 410 415
 Ala Ala Ala Gln Pro Lys Ala Ile Asp Thr Ala Gly Gln Arg Ile Glu
 420 425 430
 Ala Leu Asp Arg Glu Ile Ala Ala Leu Lys Asn Glu Met Glu Met Lys
 435 440 445
 Arg Glu Leu Ser Arg Asn Ser Val Leu Thr Ile Ile Asp Arg Glu Asn
 450 455 460
 Gln Arg Val Glu Thr Asn Pro Gln Thr Gln Ser Asp Asp Asn Thr Asp
 465 470 475 480
 Ser Arg Phe Asn Gln Met Ala Ala Pro Gln Ser Ala Glu
 485 490

<210> 8920

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 8920

Arg Gly Ser Leu Lys Ile Thr Lys His Cys Phe Trp Arg Pro Gly Met
 1 5 10 15
 Thr Ile Ser Ala Lys Arg Val Ser Phe Asp Glu Ala Thr Met Trp Val
 20 25 30
 Glu Leu Asn Asp Ala Arg Thr Ile Gly Val Pro Leu Ala Trp Phe Pro
 35 40 45
 Arg Leu Leu His Ala Ser Thr Glu Gln Leu Asn Ser Tyr Glu Leu Ser
 50 55 60
 Pro Arg Gly Ile His Trp Asp Ala Leu Asp Glu Asp Ile Ser Ile Ala
 65 70 75 80
 Gly Leu Leu Glu Gly Arg Gly Asp Val Thr His Arg Pro His Lys Val
 85 90 95
 Ala

<210> 8921

<211> 506

<212> PRT

<213> Enterobacter cloacae

<400> 8921

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Asn Arg Arg Pro Ala Met Gln Ile Lys Ser Asn Ala Leu Val Lys Phe
1      5      10      15
Ile Val Pro Ala Val Val Ile Ala Gly Leu Ala Val Gly Leu Lys Ser
20      25      30
Cys Lys Asn Glu Pro Ala Glu Pro Ser Gln Ala Lys Gln Ser Gly Gly
35      40      45
Pro Leu His Asn Leu Pro Pro Asp Glu Leu Lys Ala Leu Gly Val Glu
50      55      60
Gly Asp Thr Pro Glu Asp Thr Leu Arg Thr Leu Ile Gly Arg Leu Asn
65      70      75      80
Asp Val Arg Glu Arg Gln Lys Thr Leu Asp Lys Gln Asn Ala Asp Leu
85      90      95
Val Lys Glu Asn Glu Arg Leu Arg Arg Arg Asn Gln Asp Val Ser Gly
100      105      110
Gln Val Asn Glu Ala Val Asn Gly Leu Arg Glu Gln Tyr Asp Lys Arg
115      120      125
Gln Ala Gln Leu Gln Asn Glu Gln Leu Ser Leu Thr Ala Lys Ile Gln
130      135      140
Glu Leu Thr Asp Lys Leu Lys Lys Pro Asp Ser Glu Lys Lys Thr Ala
145      150      155      160
Asp Ser Asp Ile Pro Leu Gly Leu Gly Leu Asp Gly Met Gly Ser Ser
165      170      175
Thr Gly Gly Ala Ala Ser Gln Gly Ser Asp Gly Met Met Trp Val Ala
180      185      190
Pro Thr Asp Gln Lys Glu Ala Asp Pro Arg Asp Ala Ala Ser Gly Lys
195      200      205
Ala Ser Pro Gln Phe Pro Thr Ser Phe Leu Gly Glu Asn Glu Leu Thr
210      215      220
Arg Gln Lys Ala Ala Tyr Glu Glu Lys Val Lys Gly Arg Thr Asn Glu
225      230      235      240
Lys Gly Ala Glu Glu Ser Ala Glu Pro Val Tyr Thr Leu Pro Glu Asn
245      250      255
Ser Thr Leu Val Gly Ser Arg Ala Met Thr Ala Leu Leu Gly Arg Val
260      265      270
Pro Ile Asn Gly Thr Val Thr Asp Pro Tyr Pro Phe Lys Val Leu Ile
275      280      285
Gly Lys Asp Asn Leu Thr Ala Asn Gly Ile Glu Leu Pro Asp Val Glu
290      295      300
Gly Ala Ile Val Ser Gly Thr Ala Ser Gly Asp Trp Thr Leu Ser Cys
305      310      315      320
Val Arg Gly Gln Val Asn Ser Ile Thr Phe Val Phe Ser Asp Gly Thr
325      330      335
Val Arg Thr Leu Pro Arg Pro Asp Thr Ser Asn Asn Ala Gly Gly Gln
340      345      350
Asn Asn Asn Ala Gln Ala Lys Gln Asp Thr Ser Thr Ser Gly Gly Ile
355      360      365
Gly Trp Ile Ser Asp Glu Asn Gly Ile Pro Cys Ile Gly Gly Glu Arg
370      375      380
Lys Ser Asn Ala Ser Thr Tyr Leu Pro Thr Ile Phe Gly Leu Ser Ala
385      390      395      400
Ala Gly Ala Ala Gly Glu Ala Met Ser Gln Gly Gln Tyr Thr Thr Gln
405      410      415
Asn Asn Val Asn Gly Ile Ser Ala Thr Met Thr Gly Asp Ala Gly Gln
420      425      430
Ala Ala Leu Gly Lys Ala Ile Ser Gly Gly Met Ser Glu Thr Thr Asp
435      440      445

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Trp Ile Lys Gln Arg Tyr Gly Met Thr Phe Asp Ala Ile Tyr Val Pro
 450 455 460
 Pro Gly Ala Arg Leu Ala Val His Ile Thr Arg Gln Leu Ala Ile Asp
 465 470 475 480
 Tyr Glu Glu Lys Gly Arg Lys Val Arg Tyr Asp Phe Thr Leu Pro Gly
 485 490 495
 Gly Val Ser Asp Asn Gly Gly Leu Asp
 500 505

<210> 8922

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 8922

Phe Glu Gly Arg Val Met Pro Ile Pro Leu Glu Gln Thr Met Cys Trp
 1 5 10 15
 Asp Lys Ser Ser Gln Lys Asn Ser Ala Asn Thr Pro Val Leu Met Met
 20 25 30
 Ala Ala Ile Ala Arg Leu Thr Gly Ser Asn Pro Ser Leu Ala Cys Val
 35 40 45
 Pro Leu Phe Gly Asp Gly Val Ser Cys Gly Phe Pro Ser Pro Ala Gln
 50 55 60
 Asp Tyr Val Glu Lys Arg Leu Ser Leu Asp Asp Leu Cys Ile Arg Tyr
 65 70 75 80
 Pro Glu Ser Thr Tyr Leu Val Arg Ala Glu Gly Asp Ser Met Leu Asn
 85 90 95
 Ala Gly Ile Lys Asp Gly Asp Leu Leu Ile Val Arg Tyr
 100 105

<210> 8923

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 8923

Gly Phe Met Met Ser Lys Val Lys Gln Thr Asp Ile Asp Gln Leu Ile
 1 5 10 15
 Val Leu Val Gly Gly Arg Asp Asn Ile Ala Thr Val Ser His Cys Ile
 20 25 30
 Thr Arg Leu Arg Phe Val Leu Asn Asp Pro Ala Lys Ala Asn Pro Lys
 35 40 45
 Ala Ile Glu Glu Leu Ser Met Val Lys Gly Cys Phe Thr Asn Ala Gly
 50 55 60
 Gln Phe Gln Val Val Ile Gly Thr Glu Val Gly Asp Tyr Tyr Gln Ala
 65 70 75 80
 Leu Leu Ala Thr Thr Gly His Ser Ser Ala Asp Lys Glu Gln Ala Lys
 85 90 95
 Lys Ala Ala Arg Gln Asn Met Lys Trp His Glu Gln Leu Ile Ser His
 100 105 110
 Phe Ala Glu Ile Phe Phe Pro Leu Leu Pro Ala Leu Ile Ser Gly Gly
 115 120 125
 Leu Ile Leu Gly Phe Arg Asn Val Ile Gly Asp Val Pro Met Ser Asp
 130 135 140
 Gly Lys Thr Leu Ala Gln Met Tyr Pro Ala Leu Gln Ser Ile Tyr Asp
 145 150 155 160
 Phe Leu Trp Leu Ile Gly Glu Ala Ile Phe Phe Tyr Leu Pro Val Gly
 165 170 175
 Ile Cys Trp Ser Ala Val Arg Lys Met Gly Gly Thr Pro Ile Leu Gly
 180 185 190
 Ile Val Leu Gly Val Thr Leu Val Ser Pro Gln Leu Met Asn Ala Tyr

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195          200          205
Leu Leu Gly Gln Gln Thr Pro Glu Val Trp Asn Phe Gly Leu Phe Thr
210          215          220
Ile Ala Lys Val Gly Tyr Gln Ala Gln Val Ile Pro Ala Leu Leu Ala
225          230          235          240
Gly Leu Ala Leu Gly Phe Ile Glu Thr Arg Leu Lys Arg Ile Val Pro
245          250          255
Asp Tyr Leu Tyr Leu Val Val Val Pro Val Cys Ser Leu Ile Leu Ala
260          265          270
Val Phe Leu Ala His Ala Phe Ile Gly Pro Phe Gly Arg Met Ile Gly
275          280          285
Asp Gly Val Ala Phe Ala Val Arg His Leu Met Thr Gly Ser Phe Ala
290          295          300
Pro Ile Gly Ala Ala Leu Phe Gly Phe Leu Tyr Ala Pro Leu Val Ile
305          310          315          320
Thr Gly Val His Gln Thr Thr Leu Ala Ile Asp Met Gln Met Ile Gln
325          330          335
Ser Leu Gly Gly Thr Pro Val Trp Pro Ile Ile Ala Leu Ser Asn Ile
340          345          350
Ala Gln Ala Ser Ala Val Thr Gly Ile Ile Ile Val Ser Arg Lys His
355          360          365
Asn Glu Arg Glu Ile Ser Val Pro Ala Ala Ile Ser Ala Tyr Leu Gly
370          375          380
Val Thr Glu Pro Ala Met Tyr Gly Ile Asn Leu Lys Tyr Arg Phe Pro
385          390          395          400
Met Leu Cys Ala Met Ile Gly Ser Gly Leu Ala Gly Leu Leu Cys Gly
405          410          415
Leu Asn Gly Val Met Ala Asn Gly Ile Gly Val Gly Gly Leu Pro Gly
420          425          430
Ile Leu Ser Ile Gln Pro Ala Phe Trp Gln Val Phe Ala Leu Ala Met
435          440          445
Ala Val Ala Ile Ile Ile Pro Met Ala Leu Thr Thr Val Val Tyr Gln
450          455          460
Arg Lys Phe Arg Gln Gly Thr Leu Gln Ile Val
465          470          475

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<210> 8924

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 8924

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Phe Ser Leu Ser Gly Arg Ser Cys Ala Pro Ser His Leu Gln Glu Arg
1          5          10          15
Thr Met Asn Thr Leu Pro His Trp Trp Gln Asn Gly Val Ile Tyr Gln
20          25          30
Ile Tyr Pro Lys Ser Phe Gln Asp Thr Thr Gly Ser Gly Thr Gly Asp
35          40          45
Leu Arg Gly Val Thr Gln Arg Leu Asp Tyr Leu Lys Thr Leu Gly Ile
50          55          60
Asp Ala Ile Trp Leu Thr Pro Phe Tyr Ile Ser Pro Gln Val Asp Asn
65          70          75          80
Gly Tyr Asp Val Ala Asn Tyr Thr Ala Ile Asp Pro Thr Tyr Gly Thr
85          90          95
Leu Asp Asp Phe Asp Glu Leu Val Ala Arg Ala His Glu His Gly Ile
100          105          110
Arg Ile Val Leu Asp Met Val Phe Asn His Thr Ser Thr Gln His Ala
115          120          125
Trp Phe Arg Glu Ser Leu Asp Lys Ala Ser Pro Tyr Arg Gln Phe Tyr
130          135          140
Ile Trp Arg Asp Gly Thr Pro Asp Thr Leu Pro Asn Asn Trp Arg Ser

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145 150 155 160
 Lys Phe Gly Gly Asn Ala Trp Arg Trp His Ala Glu Ser Glu Gln Tyr
 165 170 175
 Tyr Leu His Leu Phe Ala Pro Glu Gln Ala Asp Leu Asn Trp Glu Asn
 180 185 190
 Pro Ala Val Arg Ala Glu Leu Lys Lys Val Cys Glu Phe Trp Ala Asp
 195 200 205
 Arg Gly Val Asp Gly Leu Arg Leu Asp Val Ile Asn Leu Val Ser Lys
 210 215 220
 Asp Gln Asp Phe Pro Asp Asp Thr Leu Gly Asp Gly Arg Arg Phe Tyr
 225 230 235 240
 Thr Asp Gly Pro Arg Ile His Glu Tyr Leu Gln Glu Met Ser Arg Asp
 245 250 255
 Val Phe Thr Pro Arg Asn Leu Met Thr Val Gly Glu Met Ser Ser Thr
 260 265 270
 Ser Leu Glu Asn Cys Gln Gln Tyr Ala Ser Leu Asp Gly Arg Glu Leu
 275 280 285
 Ser Met Thr Phe Asn Phe His His Leu Lys Val Asp Tyr Pro Gly Gly
 290 295 300
 Glu Lys Trp Thr Lys Ala Lys Pro Asp Phe Val Ala Leu Lys Thr Leu
 305 310 315 320
 Phe Arg His Trp Gln Gln Gly Met His Asn Lys Ala Trp Asn Ala Leu
 325 330 335
 Phe Trp Cys Asn His Asp Gln Pro Arg Ile Val Ser Arg Phe Gly Asp
 340 345 350
 Glu Gly Glu His Arg Val Ala Ala Ala Lys Met Leu Gly Met Val Leu
 355 360 365
 His Gly Met Gln Gly Thr Pro Tyr Ile Tyr Gln Gly Glu Glu Leu Gly
 370 375 380
 Met Thr Asn Pro His Phe Ser Arg Ile Thr Asp Tyr Arg Asp Val Glu
 385 390 395 400
 Ser Leu Asn Met Phe Ala Glu Gln Arg Ala Asn Gly Arg Asp Thr Asp
 405 410 415
 Glu Leu Leu Ala Ile Leu Ala Ser Lys Ser Arg Asp Asn Gly Arg Thr
 420 425 430
 Pro Met Gln Trp Asp Ala Ser His Asn Ala Gly Phe Thr Glu Ala Glu
 435 440 445
 Pro Trp Ile Gly Val Cys Asp Asn Tyr Glu Thr Val Asn Val Arg Ala
 450 455 460
 Ala Leu Asp Asp Pro Asp Ser Val Phe Tyr Thr Tyr Gln Ser Leu Ile
 465 470 475 480
 Arg Leu Arg Lys Thr Leu Pro Val Leu Thr Trp Gly Asp Tyr Glu Asp
 485 490 495
 Leu Leu Pro Asp His Pro Ser Leu Trp Cys Tyr Arg Arg Gln Trp Gln
 500 505 510
 Gly Gln Thr Leu Met Val Val Ala Asn Leu Ser His Leu Pro Gln Glu
 515 520 525
 Trp Gln Ala Asp Ala Leu Ser Gly Glu Ser Gln Val Val Ile Ser Asn
 530 535 540
 Tyr Pro Ala Pro His Thr Ser Met Leu Arg Pro Phe Glu Ala Val Trp
 545 550 555 560
 Trp Leu Lys Gln

565

<210> 8925

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 8925

Gly His Gln Val Asn Ala Met Asn Tyr His Gln Tyr Tyr Pro Val Asp

```

1           5           10           15
Ile Val Asn Gly Pro Gly Thr Arg Cys Thr Leu Phe Val Ser Gly Cys
20          25
Val His Glu Cys Pro Gly Cys Tyr Asn Lys Ser Thr Trp Arg Leu Asn
35          40
Ser Gly Met Pro Phe Thr Ala Glu Met Glu Asp Arg Ile Ile Asn Asp
50          55          60
Leu Asn Asp Thr Arg Ile Lys Arg Gln Gly Ile Ser Leu Ser Gly Gly
65          70          75          80
Asp Pro Leu His Pro Gln Asn Val Pro Glu Ile Leu Lys Leu Val Lys
85          90
Arg Ile His His Glu Cys Ala Gly Lys Asp Ile Trp Val Trp Thr Gly
100         105
Tyr Lys Leu Asp Glu Leu Asn Ala Gln Gln Met Glu Val Val Asp Leu
115         120         125
Ile Asn Val Leu Val Asp Gly Lys Phe Met Gln Asp Leu Lys Asp Pro
130         135         140
Met Leu Ile Trp Arg Gly Ser Ser Asn Gln Val Val His His Leu Arg
145         150         155         160

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<210> 8926

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 8926

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Leu Val Thr Leu Ala Ser Phe Phe Lys Glu Pro Asp Met Thr Lys Gln
1           5           10           15
Pro Glu Asp Trp Leu Asp Asp Val Pro Gly Asp Asp Ile Glu Asp Glu
20          25          30
Asp Asp Glu Ile Ile Trp Val Ser Lys Ser Glu Ile Lys Arg Asp Ala
35          40          45
Glu Glu Leu Lys Lys Leu Gly Ala Glu Met Val Glu Leu Gly Lys Asn
50          55          60
Ala Leu Asp Lys Ile Pro Leu Asp Gln Asp Leu Arg Asp Ala Ile Glu
65          70          75          80
Leu Ala Gln Lys Ile Lys Lys Glu Gly Arg Arg Gln Leu Gln Leu
85          90          95
Ile Gly Lys Leu Leu Arg Gln Arg Asp Val Glu Pro Ile Arg Gln Ala
100         105         110
Leu Asp Lys Leu Lys Asn Arg His Asn Gln Gln Val Ala Leu Phe His
115         120         125
Lys Leu Glu Gln Ile Arg Asp Arg Leu Ile Glu Gln Gly Asp Asp Ala
130         135         140
Val Pro Glu Val Leu Asn Leu Trp Pro Asn Ala Asp Arg Gln Gln Leu
145         150         155         160
Arg Ser Leu Ile Arg Asn Ala Lys Lys Glu Lys Glu Gly Asn Lys Pro
165         170         175
Pro Lys Ser Ala Arg Leu Ile Phe Gln Tyr Leu Arg Glu Leu Ser Glu
180         185         190
Asn Glu Glu
195

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<210> 8927

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 8927

Pro Val Arg Met Gly Ala Lys Lys Gln Arg His Leu Thr Val Ala Leu
 1 5 10 15
 Ser Phe Phe Arg Thr Gly Leu Cys Leu Thr Ser Tyr Arg Phe Gln Ser
 20 25 30
 Ala Leu Thr Arg Arg Pro Asn Val Gly Thr Arg Thr Ser Met His Cys
 35 40 45
 Arg Lys Ala Ser Gly Ser Thr Gly Glu Arg Ile His Arg Pro Trp Cys
 50 55 60
 Ala Arg His Gln Val Arg Pro Ala Trp His Tyr Gln Tyr Asp Lys Pro
 65 70 75 80
 His Pro Val Pro Phe Arg Ser Pro Glu Leu Arg Leu Asp Ser Gly Pro
 85 90 95
 Asp Cys Thr Thr Gly Ser Phe Arg Leu Cys Asn Phe Pro Ala Thr Gly
 100 105 110
 Arg Trp Ser Ser Ser Gly Cys Cys Leu Ala Trp Phe Val Asn Cys Arg
 115 120 125
 Lys Gln Ile Phe Ala Leu Leu Lys Leu Lys Leu Ile Glu Gln Ile Lys
 130 135 140
 Cys Leu Val Tyr Ala Gly His Cys Phe Gln Ile
 145 150 155

<210> 8928

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 8928

Gly Asn Thr Met Thr Leu Arg Asn Leu Leu Val Ala Ala Cys Leu Leu
 1 5 10 15
 Leu Pro Leu Met Ala Ser Ala His Asn Ile Glu Lys Gly Gln Arg Val
 20 25 30
 Pro Pro Val Gly Ile Ala Asp Arg Gly Glu Leu Ile Leu Asp Asn Asp
 35 40 45
 Lys Phe Ser Tyr Lys Thr Trp Asn Ser Ala Gln Leu Ala Gly Lys Val
 50 55 60
 Arg Val Val Gln His Ile Ala Gly Arg Thr Ser Ala Lys Glu Lys Asn
 65 70 75 80
 Ala Thr Leu Val Glu Ala Ile Lys Ala Ala Lys Leu Pro His Asp Arg
 85 90 95
 Tyr Gln Thr Thr Thr Ile Val Asn Thr Asp Asp Ala Ile Pro Gly Ser
 100 105 110
 Gly Met Phe Val Arg Ser Ser Leu Glu Asn Asn Lys Lys Leu Tyr Pro
 115 120 125
 Trp Ser Gln Tyr Met Val Asp Ser Asn Gly Val Thr Arg Lys Ala Trp
 130 135 140
 Gln Leu Glu Glu Glu Ser Ser Ala Ile Val Val Leu Asp Lys Asn Gly
 145 150 155 160
 Arg Val Glu Trp Val Lys Asp Gly Ala Leu Thr Gln Asp Glu Val Gln
 165 170 175
 Gln Val Val Ala Leu Leu His Lys Leu Leu Thr Gln
 180 185

<210> 8929

<211> 691

<212> PRT

<213> Enterobacter cloacae

<400> 8929

Thr Ile Pro Leu Ser Val Lys Gln Phe Trp Phe Gln Arg Pro Phe Phe
 1 5 10 15
 Trp Gln His Ser His Phe Cys Lys Gln Gln Ile Leu His Thr Tyr Ser

	20		25		30
Phe Val Ala Trp Ile Glu Lys Arg Thr Pro Gln Met Ile Lys Phe Ser					
	35		40		45
Ala Thr Leu Leu Ala Thr Leu Ile Ala Ala Ser Val Gln Ala Ala Thr					
	50		55		60
Val Asp Leu Arg Ile Leu Glu Thr Thr Asp Leu His Ser Asn Met Met					
65	70		75		80
Asp Phe Asp Tyr Tyr Lys Asp Thr Pro Thr Glu Lys Phe Gly Leu Val					
	85		90		95
Arg Thr Ala Ser Leu Ile Asn Ala Ala Arg Gly Glu Val Lys Asn Ser					
	100		105		110
Val Leu Val Asp Asn Gly Asp Leu Ile Gln Gly Ser Pro Leu Gly Asp					
	115		120		125
Tyr Met Ala Ala Lys Gly Leu Lys Lys Gly Glu Ile His Pro Val Tyr					
	130		135		140
Lys Ala Met Asn Thr Leu Asp Tyr Ala Val Gly Asn Leu Gly Asn His					
145	150		155		160
Glu Phe Asn Tyr Gly Leu Lys Tyr Leu His Asp Ala Leu Ala Gly Ala					
	165		170		175
Lys Phe Pro Tyr Val Asn Ala Asn Ile Ile Asp Val Lys Thr Lys Lys					
	180		185		190
Pro Arg Phe Thr Pro Tyr Leu Ile Lys Glu Thr Glu Val Val Asp Gln					
	195		200		205
Asp Gly Lys Lys Gln Thr Leu Lys Ile Gly Tyr Ile Gly Phe Val Pro					
	210		215		220
Pro Gln Ile Met Thr Trp Asp Lys Ala Asn Leu Asp Gly Lys Val Thr					
225	230		235		240
Val Asn Asp Ile Thr Glu Thr Ala Arg Lys Tyr Val Pro Lys Met Arg					
	245		250		255
Ala Lys Gly Ala Asp Val Val Val Val Val Ala His Ser Gly Leu Ser					
	260		265		270
Ala Asp Pro Tyr Gln Val Met Ala Glu Asn Ser Val Tyr Tyr Leu Ser					
	275		280		285
Gln Val Pro Gly Val Asp Ala Ile Leu Phe Gly His Ala His Ala Val					
	290		295		300
Phe Pro Gly Lys Asp Phe Ala Asp Ile Lys Gly Ala Asp Ile Glu Lys					
305	310		315		320
Gly Thr Leu Asn Gly Val Pro Ser Val Met Pro Gly Met Trp Gly Asp					
	325		330		335
His Leu Gly Val Val Asp Leu Val Leu Asn Asn Asp Ser Gly Ser Trp					
	340		345		350
Lys Val Thr Gln Ser Lys Ala Glu Ala Arg Pro Ile Tyr Asp Ala Ala					
	355		360		365
Ala Lys Lys Ser Leu Ala Gly Glu Asp Lys Lys Leu Val Asp Val Leu					
	370		375		380
Lys His Asp His Asp Ala Thr Arg Glu Phe Val Ser Lys Pro Ile Gly					
385	390		395		400
Lys Ser Ala Asp Asn Met Tyr Ser Phe Leu Ala Leu Val Gln Asp Asp					
	405		410		415
Pro Thr Val Gln Val Val Asn Met Ala Gln Lys Ala Tyr Ala Glu His					
	420		425		430
Tyr Ile Gln Gly Asp Pro Asp Leu Ala Asn Leu Pro Val Leu Ser Ala					
	435		440		445
Ala Ala Pro Phe Lys Val Gly Gly Arg Lys Asn Asp Pro Ala Ser Tyr					
	450		455		460
Val Glu Val Glu Lys Gly Gln Leu Thr Phe Arg Asn Ala Ala Asp Leu					
465	470		475		480
Tyr Leu Tyr Pro Asn Thr Phe Val Val Val Lys Ala Thr Gly Lys Glu					
	485		490		495
Val Lys Glu Trp Leu Glu Cys Ser Ala Gly Gln Phe Asn Gln Ile Asp					
	500		505		510

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Pro His Ser Ser Lys Pro Gln Ser Leu Ile Asn Trp Asp Gly Phe Arg
    515                      520
Thr Tyr Asn Phe Asp Met Ile Asp Gly Val Asp Tyr Gln Ile Asp Val
    530                      535
Thr Gln Pro Ala Lys Tyr Asp Gly Glu Cys Gln Ala Ile Asn Pro Gln
    545                      550
Ala Glu Arg Ile Lys Asn Leu Thr Phe Asn Gly Lys Ala Ile Asp Pro
    565                      570
Asn Ala Thr Phe Leu Val Val Thr Asn Asn Tyr Arg Ala Tyr Gly Gly
    580                      585
Lys Phe Ala Gly Thr Gly Asp Ser His Ile Ala Phe Ala Ser Pro Asp
    595                      600
Glu Asn Arg Ser Val Leu Ala Ala Trp Ile Ser Ala Glu Ser Lys Lys
    610                      615
Ala Gly Glu Ile His Pro Ala Val Asp Asn Asn Trp Arg Leu Ala Pro
    625                      630
Ile His Ser Asp Thr Lys Leu Asp Ile Arg Phe Glu Thr Ser Pro Ser
    645                      650
Asp Lys Ala Ala Ala Phe Ile Lys Asp Lys Ala Gln Tyr Pro Met Gln
    660                      665
Lys Val Ala Thr Asp Asp Ile Gly Phe Ala Ile Tyr Gln Val Asp Leu
    675                      680
Ser Arg
    690

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<210> 8930

<211> 717

<212> PRT

<213> Enterobacter cloacae

<400> 8930

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Asn Gly Val Ile Met Thr Pro His Val Met Lys Arg Asp Gly Cys Lys
1      5      10
Val Pro Phe Lys Ser Glu Arg Ile Lys Glu Ala Ile Leu Arg Ala Ala
    20      25      30
Lys Ala Ala Gly Val Asp Asp Ala Asp Tyr Cys Ala Thr Val Ala Glu
    35      40      45
Val Val Ser Ser Gln Met His Glu Arg Ser Gln Val Asp Ile Asn Glu
    50      55      60
Ile Gln Thr Ala Val Glu Asn Gln Leu Met Ser Gly Pro Tyr Lys Gln
    65      70      75
Leu Ala Arg Ala Tyr Ile Glu Tyr Arg His Asp Arg Asp Val Gln Arg
    85      90      95
Glu Lys Arg Gly Arg Leu Asn Gln Glu Ile Arg Gly Leu Val Glu Gln
    100     105     110
Thr Asn Ser Ser Leu Leu Asn Glu Asn Ala Asn Lys Asp Ser Lys Val
    115     120     125
Ile Pro Thr Gln Arg Asp Leu Leu Ala Gly Ile Val Ala Lys His Tyr
    130     135     140
Ala Arg Gln His Leu Leu Pro Arg Asp Val Val Ser Ala His Glu Arg
    145     150     155
Gly Glu Ile His Tyr His Asp Leu Asp Tyr Ser Pro Phe Phe Pro Met
    165     170     175
Phe Asn Cys Met Leu Ile Asp Leu Lys Gly Met Leu Thr His Gly Phe
    180     185     190
Lys Met Gly Asn Ala Glu Ile Glu Pro Pro Lys Ser Ile Ser Thr Ala
    195     200     205
Thr Ala Val Thr Ala Gln Ile Ile Ala Gln Val Ala Ser His Ile Tyr
    210     215     220
Gly Gly Thr Thr Ile Asn Arg Ile Asp Glu Val Leu Ala Pro Phe Val
    225     230     235

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Thr Glu Ser Phe Asn Lys His Arg Lys Thr Ala Glu Glu Trp Gln Ile
 245 250 255
 Pro Asn Ala Asp Gly Tyr Ala Arg Ser Arg Thr Glu Lys Glu Cys Tyr
 260 265 270
 Asp Ala Phe Gln Ser Leu Glu Tyr Glu Val Asn Thr Leu His Thr Ala
 275 280 285
 Asn Gly Gln Thr Pro Phe Val Thr Phe Gly Phe Gly Leu Gly Thr Ser
 290 295 300
 Trp Glu Ser Arg Leu Ile Gln Gln Ser Ile Leu Arg Asn Arg Ile Ser
 305 310 315 320
 Gly Leu Gly Lys Asn Arg Lys Thr Ala Val Phe Pro Lys Leu Val Phe
 325 330 335
 Ala Ile Arg Asp Gly Leu Asn His Lys Phe Gly Asp Pro Asn Tyr Asp
 340 345 350
 Ile Lys Gln Leu Ala Leu Glu Cys Ala Ser Lys Arg Met Tyr Pro Asp
 355 360 365
 Ile Leu Asn Tyr Asp Gln Val Val Lys Val Thr Gly Ser Phe Lys Thr
 370 375 380
 Pro Met Gly Cys Arg Ser Phe Leu Gly Val Tyr Glu Asp Glu Asn Gly
 385 390 395 400
 Glu Gln Ile His Asp Gly Arg Asn Asn Leu Gly Val Ile Ser Leu Asn
 405 410 415
 Leu Pro Arg Ile Ala Leu Glu Ala Lys Gly Asn Glu Ala Ala Phe Trp
 420 425 430
 Thr Leu Leu Asp Glu Arg Leu Gln Leu Ala Arg Lys Ala Leu Met Thr
 435 440 445
 Arg Ile Ala Arg Leu Glu Gly Val Lys Ala Arg Val Ala Pro Ile Leu
 450 455 460
 Tyr Met Glu Gly Ala Cys Gly Val Arg Leu Lys Ala Asp Asp Asp Val
 465 470 475 480
 Ser Glu Ile Phe Lys Asn Gly Arg Ala Ser Ile Ser Leu Gly Tyr Ile
 485 490 495
 Gly Ile His Glu Thr Ile Asn Ala Leu Phe Gly Asp Lys His Ile Tyr
 500 505 510
 Asp Asn Asp Ala Leu Arg Glu Lys Gly Ile Ala Ile Val Gln Arg Leu
 515 520 525
 Arg Asp Ala Val Asp Gln Trp Lys Glu Glu Thr Gly Tyr Gly Phe Ser
 530 535 540
 Leu Tyr Ser Thr Pro Ser Glu Asn Leu Cys Asp Arg Phe Cys Arg Leu
 545 550 555 560
 Asp Thr Ala Glu Phe Gly Ile Val Glu Gly Val Thr Asp Lys Gly Tyr
 565 570 575
 Tyr Thr Asn Ser Phe His Leu Asp Val Glu Lys Lys Val Asn Pro Tyr
 580 585 590
 Asp Lys Ile Asp Phe Glu Ala Ala Tyr Pro Pro Ile Ala Asn Gly Gly
 595 600 605
 Phe Ile Cys Tyr Gly Glu Tyr Pro Asn Ile Gln His Asn Leu Lys Ala
 610 615 620
 Leu Glu Asp Val Trp Asp Tyr Ser Tyr Gln His Val Pro Tyr Tyr Gly
 625 630 635 640
 Thr Asn Thr Pro Ile Asp Glu Cys Tyr Glu Cys Gly Phe Thr Gly Glu
 645 650 655
 Phe Glu Cys Thr Ser Lys Gly Phe Thr Cys Pro Lys Cys Gly Asn His
 660 665 670
 Asp Ala Ala Arg Val Ser Val Thr Arg Arg Val Cys Gly Tyr Leu Gly
 675 680 685
 Ser Pro Asp Ala Arg Pro Phe Asn Ala Gly Lys Gln Glu Glu Val Lys
 690 695 700
 Arg Arg Val Lys His Leu Gly Asn Gly Gln Ile Gly
 705 710 715

<210> 8931
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 8931
 Asp Cys Trp Thr Ser Thr Ala Leu Leu Asn Ile Arg Cys Arg Glu Ser
 1 5 10 15
 Val Met Lys Thr Leu Gly Glu Phe Ile Val Glu Lys Gln His Glu Phe
 20 25 30
 Ser His Ala Thr Gly Glu Leu Thr Ala Leu Ser Ala Ile Lys Leu
 35 40 45
 Gly Ala Lys Ile Ile His Arg Asp Ile Asn Lys Ala Gly Leu Val Asp
 50 55 60
 Ile Leu Gly Ala Ser Gly Ala Glu Asn Val Gln Gly Glu Val Gln Gln
 65 70 75 80
 Lys Leu Asp Leu Phe Ala Asn Glu Lys Leu Lys Ala Ala Leu Arg Ala
 85 90 95
 Arg Asp Ile Val Ala Gly Ile Ala Ser Glu Glu Glu Asp Glu Ile Val
 100 105 110
 Val Phe Glu Gly Cys Glu His Ala Lys Tyr Val Val Leu Met Asp Pro
 115 120 125
 Leu Asp Gly Ser Ser Asn Ile Asp Val Asn Val Ser Val Gly Thr Ile
 130 135 140
 Phe Ser Ile Tyr Arg Arg Val Thr Pro Val Gly Thr Pro Val Thr Glu
 145 150 155 160
 Glu Asp Phe Leu Gln Pro Gly Ser Lys Gln Val Ala Ala Gly Tyr Val
 165 170 175
 Val Tyr Gly Ser Ser Thr Met Leu Val Tyr Thr Thr Gly Cys Gly Val
 180 185 190
 His Ala Phe Thr Tyr Asp Pro Ser Leu Gly Val Phe Cys Leu Cys Gln
 195 200 205
 Glu Arg Met Arg Phe Pro Glu Lys Gly Asn Thr Tyr Ser Ile Asn Glu
 210 215 220
 Gly Asn Tyr Ile Lys Phe Pro Asn Gly Val Lys Lys Tyr Ile Lys Phe
 225 230 235 240
 Cys Gln Glu Glu Asp Lys Ala Thr Gln Arg Pro Tyr Thr Ser Arg Tyr
 245 250 255
 Ile Gly Ser Leu Val Ala Asp Phe His Arg Asn Leu Leu Lys Gly Gly
 260 265 270
 Ile Tyr Leu Tyr Pro Ser Thr Ala Ser His Pro Asp Gly Lys Leu Arg
 275 280 285
 Leu Leu Tyr Glu Cys Asn Pro Met Ala Phe Leu Ala Glu Gln Ala Gly
 290 295 300
 Gly Lys Ala Ser Asp Gly Lys Glu Arg Ile Leu Asp Ile Val Pro Glu
 305 310 315 320
 Ser Leu His Gln Arg Arg Ser Phe Phe Val Gly Asn Arg His Met Val
 325 330 335
 Asp Asp Val Glu Arg Met Ile Arg Glu Phe Pro Asp Ala
 340 345 350

<210> 8932
 <211> 210
 <212> PRT
 <213> Enterobacter cloacae

<400> 8932
 Arg Arg Glu Gly Glu Lys Ser Lys Thr Gly Gly Asp Phe Gln Arg Gln
 1 5 10 15
 Leu Ala Ile Ile Pro Ala Thr Cys Leu Pro Ser Ile Leu Lys Asp Thr
 20 25 30

Asp Met Ser Leu Leu Asn Val Pro Ala Gly Lys Glu Leu Pro Glu Asp
 35 40 45
 Ile Tyr Val Val Ile Glu Ile Pro Ala Asn Ala Asp Pro Ile Lys Tyr
 50 55 60
 Glu Ile Asp Lys Asp Thr Gly Ala Leu Phe Val Asp Arg Phe Met Ser
 65 70 75 80
 Thr Ala Met Phe Tyr Pro Cys Asn Tyr Gly Tyr Ile Asn His Thr Leu
 85 90 95
 Ser Leu Asp Gly Asp Pro Val Asp Val Leu Val Pro Thr Pro Tyr Pro
 100 105 110
 Leu Gln Pro Gly Ser Val Ile Arg Cys Arg Pro Val Gly Val Leu Lys
 115 120 125
 Met Thr Asp Glu Ala Gly Glu Asp Ala Lys Leu Val Ala Val Pro His
 130 135 140
 Thr Lys Leu Ser Lys Glu Tyr Asp His Ile Lys Asp Val Asn Asp Leu
 145 150 155 160
 Pro Glu Leu Leu Lys Ala Gln Ile Ala His Phe Phe Glu His Tyr Lys
 165 170 175
 Asp Leu Glu Lys Gly Lys Trp Val Lys Val Glu Gly Trp Asp Asn Ala
 180 185 190
 Glu Ala Ala Lys Ala Glu Ile Ile Ala Ser Phe Glu Arg Ala Ala Lys
 195 200 205
 Lys
 210

<210> 8933

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 8933

Pro Lys Gln Arg Tyr Pro Gly Gly Pro Thr Val Ser Leu Phe Asp Lys
 1 5 10 15
 Lys His Leu Val Ser Gln Ala Asp Ala Leu Pro Gly Arg Asn Thr Pro
 20 25 30
 Met Pro Val Ala Thr Leu His Ala Val Asn Asn His Ser Met Thr Asn
 35 40 45
 Val Pro Asp Gly Met Glu Ile Ala Leu Phe Ala Met Gly Cys Phe Trp
 50 55 60
 Gly Val Glu Arg Leu Phe Trp Gln Leu Pro Gly Val Tyr Ser Thr Ala
 65 70 75 80
 Ala Gly Tyr Thr Gly Gly Tyr Thr Pro Asn Pro Thr Tyr Arg Glu Val
 85 90 95
 Cys Ser Gly Glu Thr Gly His Ala Glu Ala Val Arg Val Val Tyr Asp
 100 105 110
 Pro Ser Val Ile Ser Tyr Glu Gln Leu Leu Gln Val Phe Trp Glu Asn
 115 120 125
 His Asp Pro Ala Gln Gly Met Arg Gln Gly Asn Asp His Gly Thr Gln
 130 135 140
 Tyr Arg Ser Ala Ile Tyr Pro Leu Thr Pro Glu Gln Glu Ala Ala Ala
 145 150 155 160
 His Ala Ser Leu Thr Arg Phe Gln Glu Ala Met Gln Ala Ala Gly Asp
 165 170 175
 Lys Arg Gln Val Thr Thr Glu Ile Ala Thr Ala Lys Pro Phe Tyr Tyr
 180 185 190
 Ala Glu Asp Asp His Gln Gln Tyr Leu His Lys Asn Pro Tyr Gly Tyr
 195 200 205
 Cys Gly Ile Gly Gly Ile Gly Val Cys Leu Pro Pro Gln Gln Asp
 210 215 220

<210> 8934

<211> 447
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8934

```

Thr Met Leu Asn Ser Ile Leu Val Ile Leu Cys Leu Ile Ala Val Ser
1      5      10      15
Ala Phe Phe Ser Ile Ser Glu Ile Ser Leu Ala Ala Ser Arg Lys Ile
20     25     30
Lys Leu Lys Leu Leu Ala Asp Glu Gly Asn Ile Asn Ala Ser Arg Ile
35     40     45
Leu Lys Met Gln Glu Asn Pro Gly Met Phe Phe Thr Val Val Gln Ile
50     55     60
Gly Leu Asn Ala Val Ala Ile Leu Gly Gly Ile Val Gly Asp Ala Ala
65     70     75     80
Phe Ser Pro Ala Phe Tyr Gly Leu Phe Val Lys Tyr Met Ser Val Glu
85     90     95
Leu Ala Glu Gln Leu Ser Phe Ile Leu Ser Phe Ser Leu Val Thr Gly
100    105    110
Leu Phe Ile Leu Phe Ala Asp Leu Thr Pro Lys Arg Ile Gly Met Ile
115    120    125
Ala Pro Glu Ala Val Ala Leu Arg Ile Ile Asn Pro Met Arg Phe Cys
130    135    140
Leu Tyr Val Phe Arg Pro Leu Val Trp Phe Phe Asn Gly Leu Ala Asn
145    150    155    160
Val Ile Phe Arg Ile Phe Lys Leu Pro Met Val Arg Lys Asp Asp Ile
165    170    175
Thr Ser Asp Asp Ile Tyr Ala Val Val Glu Ala Gly Ala Leu Ala Gly
180    185    190
Val Leu Arg Lys Gln Glu His Glu Leu Ile Glu Asn Val Phe Glu Leu
195    200    205
Glu Ser Arg Thr Val Pro Ser Ser Met Thr Gly Arg Glu Asn Ile Ile
210    215    220
Trp Phe Asp Leu His Glu Asp Glu Gln Ser Leu Lys Thr Lys Val Ala
225    230    235    240
Gln His Pro His Ser Lys Phe Leu Val Cys Asn Glu Asp Ile Asp His
245    250    255
Ile Ile Gly Tyr Val Asp Ser Lys Asp Leu Leu Asn Arg Val Leu Ala
260    265    270
Asn Gln Ser Leu Ala Leu Asn Ser Gly Val Gln Ile Arg Asn Thr Leu
275    280    285
Ile Val Pro Asp Thr Leu Thr Leu Ser Glu Ala Leu Glu Ser Phe Lys
290    295    300
Thr Ala Gly Glu Asp Phe Ala Val Ile Met Asn Glu Tyr Ala Leu Val
305    310    315    320
Val Gly Ile Ile Thr Leu Asn Asp Val Met Thr Thr Leu Met Gly Asp
325    330    335
Leu Val Gly Gln Gly Leu Glu Glu Gln Ile Val Gln Arg Asp Glu Asn
340    345    350
Ser Trp Leu Ile Asp Gly Gly Thr Pro Ile Glu Asp Val Met Arg Val
355    360    365
Leu Asp Ile Asp Glu Phe Pro Gln Ser Gly Asn Tyr Glu Thr Ile Gly
370    375    380
Gly Phe Met Met Phe Met Leu Arg Lys Ile Pro Lys Arg Thr Asp Ser
385    390    395    400
Val Lys Phe Ser Gly Phe Lys Phe Glu Val Val Asp Ile Asp Asn Tyr
405    410    415
Arg Ile Asp Gln Leu Leu Val Thr Arg Ile Asp Ser Lys Pro Thr Val
420    425    430
Leu Val Pro Lys Leu Pro Asp Ala Glu Glu Lys Val Ser Ala
435    440    445

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<210> 8935

<211> 75

<212> PRT

<213> *Enterobacter cloacae*

<400> 8935

```

Phe Ala Gly Asp Thr Arg Met Lys Ile Phe Gln Arg Tyr Asn Pro Leu
1      5      10      15
Gln Val Ala Lys Tyr Val Lys Ile Leu Phe Arg Gly Arg Leu Tyr Ile
      20      25      30
Lys Asp Val Gly Ala Phe Glu Phe Asp Lys Gly Lys Ile Leu Ile Pro
      35      40      45
Lys Val Lys Asp Lys Gln His Leu Ser Val Met Ser Glu Val Asn Arg
      50      55      60
Gln Val Met Arg Leu Gln Thr Glu Met Ala
65      70      75

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<210> 8936

<211> 980

<212> PRT

<213> *Enterobacter cloacae*

<400> 8936

```

Ile Met Ser Leu Trp Lys Lys Ile Ser Leu Gly Val Leu Ile Phe Ile
1      5      10      15
Val Leu Leu Leu Gly Thr Val Ala Phe Leu Val Gly Thr Thr Thr Gly
      20      25      30
Leu His Leu Leu Phe Asn Ala Ala Asn Arg Trp Val Pro Gly Leu Glu
      35      40      45
Ile Gly Gln Val Thr Gly Gly Trp Arg Asp Leu Arg Leu Lys Asn Ile
      50      55      60
Arg Tyr Glu Gln Pro Gly Val Ala Val Asn Ala Gly Glu Phe His Leu
65      70      75      80
Ala Val Lys Leu Gly Cys Leu Arg Asp Ser Gln Leu Cys Val Asn Asp
      85      90      95
Leu Ser Leu Lys Asp Val Asn Val Ala Ile Asp Ser Lys Lys Met Pro
      100      105      110
Lys Ser Glu Pro Val Glu Glu Glu Asp Ser Gly Pro Leu Asn Leu Ser
      115      120      125
Thr Pro Tyr Pro Ile Ala Leu Tyr Arg Val Ala Leu Asp Asn Val Asn
      130      135      140
Ile Lys Ile Asp Asp Thr Thr Val Ser Val Met Asp Phe Thr Ser Gly
      145      150      155      160
Leu Arg Trp Gln Glu Lys Asn Leu Thr Leu Thr Pro Thr Ser Leu Gln
      165      170      175
Gly Leu Leu Ile Ala Leu Pro Lys Val Ala Asp Val Ala Gln Glu Glu
      180      185      190
Ile Val Glu Pro Lys Ile Gln Asn Pro Gln Pro Glu Glu Lys Pro Leu
      195      200      205
Gly Glu Thr Leu Lys Asp Leu Phe Ser Lys Pro Val Leu Pro Glu Met
      210      215      220
Thr Asp Val His Leu Pro Leu Asn Leu Asn Ile Glu Glu Phe Lys Gly
      225      230      235      240
Glu Gln Leu Arg Leu Thr Gly Asp Thr Asp Leu Thr Val Phe Asn Met
      245      250      255
Leu Leu Lys Val Ser Ser Ile Asp Gly Asn Met Lys Leu Asp Ala Leu
      260      265      270
Asp Ile Asp Ser Ser Gln Gly Ser Val Asn Ala Ser Gly Asn Ala Gln
      275      280      285
Leu Arg Asp Asn Trp Pro Val Asp Ile Thr Leu Asn Ser Ala Leu Asn

```

290		295		300	
Ile Asp Pro Leu Lys Gly	Glu Lys Val Lys Val Lys Val Gly Gly Ala				
305	310	315	315	320	
Leu Arg Glu Lys Leu Glu Phe Gly Val Asn Leu Ser Gly Pro Val Asp					
	325	330	335		
Met Val Leu Arg Gly Gln Thr Gln Leu Ala Glu Ala Gly Leu Pro Leu					
	340	345	350		
Asn Leu Glu Val Val Ser Lys Gln Leu Tyr Trp Pro Phe Thr Gly Glu					
	355	360	365		
Lys Gln Phe Gln Ala Asp Asp Leu Lys Leu Lys Leu Ser Gly Lys Met					
	370	375	380		
Thr Asp Tyr Thr Leu Ser Phe Arg Thr Ala Val Lys Gly Gln Gly Val					
	385	390	395	400	
Pro Pro Ala Asp Ile Thr Leu Asp Ala Lys Gly Asn Glu Leu Gln Val					
	405	410	415		
Asn Leu Asp Lys Leu Thr Val Ala Ala Leu Glu Gly Lys Thr Glu Leu					
	420	425	430		
Thr Ala Leu Leu Asp Trp Gln Gln Ala Ile Ser Trp Arg Gly Glu Leu					
	435	440	445		
Lys Leu Thr Gly Ile Asn Thr Ala Lys Glu Val Pro Asp Trp Pro Ser					
	450	455	460		
Lys Leu Asp Gly Leu Ile Lys Thr Arg Gly Ser Leu Tyr Gly Gly Thr					
	465	470	475	480	
Trp Gln Met Asp Val Pro Glu Leu Lys Leu Thr Gly Asn Val Lys Gln					
	485	490	495		
Asn Lys Val Asn Val Glu Gly Ser Leu Lys Gly Asn Ser Tyr Leu Gln					
	500	505	510		
Trp Val Ile Pro Gly Leu His Val Ala Leu Gly Arg Asn Thr Ala Asp					
	515	520	525		
Ile Lys Gly Glu Leu Gly Val Lys Asp Leu Asp Leu Asp Ala Thr Ile					
	530	535	540		
Asp Ala Pro Asn Leu Asp Asn Ala Leu Pro Gly Leu Gly Gly Thr Ala					
	545	550	555	560	
Lys Gly Leu Val Lys Val Arg Gly Thr Val Glu Ala Pro Gln Leu Leu					
	565	570	575		
Ala Asp Ile Thr Ala Asn Asn Leu Arg Trp Gln Glu Leu Ser Ile Ala					
	580	585	590		
Arg Val Arg Val Glu Gly Asp Val Lys Ser Thr Asp Gln Ile Gly Gly					
	595	600	605		
Asn Leu Asp Leu Arg Val Glu Arg Ile Ser Gln Pro Asp Val Asn Ile					
	610	615	620		
Ser Leu Val Thr Leu Ala Ala Lys Gly Asn Glu Lys Gln His Asp Leu					
	625	630	635	640	
Gln Leu Arg Val Gln Gly Glu Pro Val Ser Gly Gln Leu His Leu Thr					
	645	650	655		
Gly Ser Phe Asp Arg Gln Ala Thr Arg Trp Lys Gly Val Leu Asp Asn					
	660	665	670		
Thr Arg Phe Ser Thr Pro Val Gly Pro Leu Val Leu Ser Arg Ser Ile					
	675	680	685		
Ala Leu Asp Tyr Arg Asn Ala Glu Gln Lys Leu Ser Ile Gly Pro His					
	690	695	700		
Cys Trp Thr Asn Pro Asn Ala Glu Leu Cys Val Pro Gln Thr Ile Asp					
	705	710	715	720	
Ala Gly Ala Glu Gly Arg Ala Gln Ile Asn Leu Asn Arg Phe Asp Leu					
	725	730	735		
Ala Met Leu Lys Pro Phe Met Pro Glu Thr Thr Gln Ala Ser Gly Val					
	740	745	750		
Phe Ser Gly Lys Ala Asp Val Ala Trp Asp Thr Thr Lys Glu Gly Leu					
	755	760	765		
Pro Gln Gly Ser Val Thr Leu Ser Gly Arg Asn Val Lys Val Thr Gln					
	770	775	780		

Glu Val Asn Asp Ala Pro Leu Pro Val Ala Phe Asp Thr Leu Asn Val
 785 790 800
 Asn Ala Asp Leu Arg Asn Asn Arg Ala Glu Leu Gly Trp Leu Ile Arg
 805 810 815
 Leu Thr Asn Asn Gly Gln Phe Asp Gly Gln Val Gln Ile Thr Asp Pro
 820 825 830
 Gln Gly Arg Arg Asn Leu Gly Gly Asn Val Asn Ile Arg Asn Phe Asn
 835 840 845
 Leu Ala Met Val Asn Pro Ile Phe Ser Arg Gly Glu Lys Ala Ala Gly
 850 855 860
 Met Leu Ser Ala Asn Leu Arg Leu Ala Gly Asp Ala Gln Ser Pro Gln
 865 870 875
 Leu Phe Gly Gln Met Arg Leu Asn Gly Val Asp Ile Asp Gly Asn Phe
 885 890 895
 Met Pro Phe Asp Met Gln Pro Ser Gln Leu Thr Met Asn Phe Asn Gly
 900 905 910
 Gln Ser Ser Thr Leu Ser Gly Ser Val Leu Thr Gln Gln Gly Gln Ile
 915 920 925
 Asn Leu Ser Gly Asp Ala Asp Trp Ser Gln Leu Asp Asn Trp Arg Ala
 930 935 940
 Arg Ile Ala Ala Lys Gly Ser Arg Val Arg Ile Thr Val Pro Pro Met
 945 950 955
 Val Arg Leu Thr Phe Arg Arg Thr Gly Ala Trp Arg Gln Pro Gly Phe
 965 970 975
 Phe His Pro
 980

<210> 8937

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 8937

Arg Arg Val Asp Val Pro Trp Arg Ala Ser Cys Ser Arg Ser Pro Gly
 1 5 10 15
 Lys Arg Gly Gly Val Ser Ser Asp Gly Val Met Leu Asn Glu Asn Leu
 20 25 30
 Lys Pro Val Glu Gln Lys Ser Ala Gly Ile Pro Ile Asn Ser Asn Leu
 35 40 45
 Ile Val His Val Gly Asn Asn Val Arg Leu Asp Ala Phe Gly Leu Lys
 50 55 60
 Ala Arg Leu Thr Gly Asp Leu Lys Val Ala Gln Asp Gln Gln Gly Leu
 65 70 75 80
 Gly Leu Asn Gly Gln Ile Asn Ile Pro Glu Gly Arg Phe His Ala Tyr
 85 90 95
 Gly Gln Asp Leu Ile Val Arg Lys Gly Glu Leu Leu Phe Ser Gly Pro
 100 105 110
 Pro Asp Gln Pro Val Leu Asn Ile Glu Ala Ile Arg Asn Pro Glu Ala
 115 120 125
 Thr Glu Asp Asp Val Ile Ala Gly Val Arg Val Thr Gly Ser Ala Asp
 130 135 140
 Glu Pro Lys Ala Glu Ile Phe Ser Asp Pro Ala Met Ser Gln Gln Glu
 145 150 155 160
 Ala Leu Ser Tyr Leu Leu Arg Gly Gln Gly Leu Asp Ser Gln Gln Gly
 165 170 175
 Asp Gly Ala Ala Met Thr Ser Met Leu Val Gly Leu Gly Val Ala Gln
 180 185 190
 Ser Gly Gln Val Val Gly Lys Ile Gly Glu Thr Phe Gly Val Ser Asn
 195 200 205
 Leu Ala Leu Asp Thr Gln Gly Val Gly Asp Ser Ser Gln Val Val Val
 210 215 220

Ser Gly Tyr Val Leu Pro Gly Leu Gln Val Lys Tyr Gly Val Gly Ile
 225 230 235 240
 Phe Asp Ser Leu Ala Thr Leu Thr Leu Arg Tyr Arg Leu Met Pro Lys
 245 250 255
 Leu Tyr Leu Glu Ala Val Ser Gly Val Asp Gln Ala Leu Asp Leu Leu
 260 265 270
 Tyr Gln Phe Glu Phe
 275

<210> 8938

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 8938

Met Pro Ser Arg Arg Lys Glu Ser Asn Val Met Ser Arg Ser Leu Ser
 1 5 10 15
 Gln Thr Gly Glu Ala Lys Arg Arg Phe Thr Trp Pro Thr Gly Thr Pro
 20 25 30
 Gln Ile Val Ala Leu Leu Leu Val Leu Val Asp Ser Leu Val Ala
 35 40 45
 Pro His Phe Phe Gln Ile Val Val Gln Asp Gly Arg Leu Phe Gly Ser
 50 55 60
 Pro Ile Asp Ile Leu Asn Arg Ala Ala Pro Val Ala Leu Leu Ala Ile
 65 70 75 80
 Gly Met Thr Leu Val Ile Ala Thr Gly Gly Ile Asp Leu Ser Val Gly
 85 90
 Ala Val Met Ala Ile Ala Gly Ala Thr Ala Ala Ser Met Thr Val Ala
 100 105 110
 Gly His Ser Leu Pro Val Val Leu Leu Ala Ala Leu Gly Ser Gly Val
 115 120 125
 Leu Ala Gly Leu Trp Asn Gly Ile Leu Val Ala Val Leu Lys Ile Gln
 130 135 140
 Pro Phe Val Ala Thr Leu Ile Leu Met Val Ala Gly Arg Gly Val Ala
 145 150 155 160
 Gln Leu Ile Thr Ser Gly Gln Ile Val Thr Phe Asn Ser Pro Ser Leu
 165 170 175
 Ala Trp Ile Gly Ser Gly Asn Phe Leu Phe Phe Pro Thr Pro Val Ile
 180 185 190
 Val Ala Leu Val Thr Leu Val Val Phe Trp Leu Phe Thr Arg Lys Thr
 195 200 205
 Ala Leu Gly Met Phe Ile Glu Ala Val Gly Ile Asn Ile Arg Ala Ala
 210 215 220
 Lys Asn Ala Gly Val Asn Thr Arg Leu Met Val Met Leu Thr Tyr Val
 225 230 235 240
 Leu Ser Gly Val Cys Ala Ala Ile Ala Gly Val Ile Val Ala Ala Asp
 245 250 255
 Ile Arg Gly Ala Asp Ala Asn Asn Ala Gly Leu Trp Leu Glu Leu Asp
 260 265 270
 Ala Ile Leu Ala Val Val Ile Gly Gly Gly Ser Leu Met Gly Gly Arg
 275 280 285
 Phe Asn Leu Leu Leu Ser Val Val Gly Ala Leu Ile Ile Gln Gly Met
 290 295 300
 Asn Thr Gly Ile Leu Leu Ser Gly Phe Gln Pro Glu Leu Asn Gln Val
 305 310 315 320
 Val Lys Ala Val Val Leu Ile Val Leu Ile Val Gln Ser Pro Arg
 325 330 335
 Phe Ile Thr Leu Ile Lys Arg Phe Arg Gly His Asp Lys Thr
 340 345 350

<210> 8939

<211> 403

<212> PRT

<213> *Enterobacter cloacae*

<400> 8939

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Ser Ser Pro Leu Pro Phe Gly Glu Arg Val Arg Val Arg Gly Asn Lys
1      5      10      15
Pro His Thr Pro Glu Gly Ala Thr Met His Thr Arg Thr Leu Val
20      25      30
Ala Ser Leu Ser Met Leu Ala Thr Ala Ala Val Ala Gln Thr Gln Tyr
35      40      45
Ala Trp Val Gly Thr Tyr Asn Pro Asn Gly Glu Gly Leu Tyr Arg Phe
50      55      60
Thr Val Asp Pro Gln Thr Gly Ala Leu Asn Asp Lys Thr Leu Val Ser
65      70      75      80
Lys Leu Pro Asn Ala Ala Gln Leu Thr Val Ser His Asp Gly Lys Thr
85      90      95
Leu Tyr Leu Ala Ser Glu Val Glu Gln Gly Val Val Gln Ala Leu Arg
100      105      110
Ile Gly Asp Asn Gly Thr Leu Ser Glu Leu Asn Gln Val Ala Ser Gly
115      120      125
Gly Ala Gly Pro Val Tyr Leu Ser Leu Thr Pro Asn Gly Lys His Leu
130      135      140
Leu Val Ala Asn Tyr Ile Ser Gly Thr Val Ala Val Leu Pro Val Asn
145      150      155      160
Ala Asp Gly Ser Leu Ser Asp Ala Thr Asp Thr His Gln Asp Lys Gly
165      170      175
Glu Pro Gly Ala Ala Lys Pro Glu Ala Ala Val Glu Gly Ser Phe Ala
180      185      190
Ile Ser Asp His Asn Gly Pro His Ala His Met Ile Ala Ala Asp Pro
195      200      205
Ser Gly Lys Tyr Val Phe Ser Thr Asp Leu Gly Leu Asp Arg Ile Tyr
210      215      220
Gln Tyr Arg Phe Asp Asp Gln Thr Gly Lys Leu Thr Pro Asn Asp Pro
225      230      235      240
Pro Phe Ile Ser Ala Ser Ser Lys Gly Ala Gly Pro Arg His Phe Val
245      250      255
Phe Thr Pro Lys Gly Asp Ala Leu Trp Leu Ile Asn Glu Glu Ala Ser
260      265      270
Thr Leu Thr His Tyr Ala Leu Asp Ser Asn Gly Arg Leu Lys Glu Gly
275      280      285
Lys Thr Val Ser Ala Leu Pro Asp Gly Tyr Lys Gly Thr Ser Phe Ala
290      295      300
Ala Gly Leu Ala Leu Ser Ala Asp Gly Lys Gln Leu Tyr Val Ala Asn
305      310      315      320
Arg Leu His Asn Ser Ile Gly His Phe Thr Val Thr Ala Glu Gly Thr
325      330      335
Leu Thr His Gln Asp Asp Val Trp Thr Arg Gly Asp Tyr Pro Arg Thr
340      345      350
Leu Thr Leu Asp Lys Gln Gly Arg Trp Leu Tyr Val Met Asn Gln Arg
355      360      365
Ser Asp Asn Ile Thr Arg Phe Arg Val Ala Pro Asp Gly Lys Leu Ser
370      375      380
Ala Glu Pro Asp Tyr Thr Pro Val Gly Ser Pro Ser Gln Met Val Ile
385      390      395      400
Ser Pro

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<210> 8940

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 8940

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Val Met Pro Thr Ala Leu Thr Lys Arg Trp Arg Met Leu Asp Lys Ile
1      5      10      15
Cys Gln Leu Ala Arg Asp Ala Gly Asp Ala Ile Met Gln Val Tyr Asp
      20      25      30
Gly Ala Lys Pro Met Asp Val Val Ser Lys Ala Asp Asp Ser Pro Val
      35      40      45
Thr Ala Ala Asp Ile Ala Ala His Ala Val Ile Leu Lys Gly Leu Gln
      50      55      60
Ala Leu Thr Pro Asp Ile Pro Val Leu Ser Glu Glu Ala Pro Gln Ser
65      70      75      80
Trp Asp Glu Arg Gln His Trp Gln Arg Tyr Trp Leu Val Asp Pro Leu
      85      90      95
Asp Gly Thr Lys Glu Phe Ile Lys Arg Asn Gly Glu Phe Thr Val Asn
      100      105      110
Ile Ala Leu Ile Glu Asn Gly Lys Ala Val Leu Gly Val Val Tyr Ala
      115      120      125
Pro Val Met Lys Val Met Tyr Ser Ala Ala Glu Gly Lys Ala Trp Lys
      130      135      140
Glu Glu Cys Gly Val Arg Lys Gln Ile Gln Val Arg Asp Ala Arg Pro
145      150      155      160
Pro Leu Val Val Ile Ser Arg Ser His Ser Asp Ser Glu Leu Glu Glu
      165      170      175
Tyr Leu Gln Gln Leu Gly Glu His Gln Thr Thr Ser Ile Gly Ser Ser
      180      185      190
Leu Lys Phe Cys Leu Val Ala Glu Gly Gln Ala Gln Leu Tyr Pro Arg
      195      200      205
Phe Gly Pro Thr Asn Val Trp Asp Thr Ala Ala Gly His Ala Val Ala
      210      215      220
Ala Ala Ala Gly Ala His Val His Asp Trp Gln Gly Lys Pro Leu Asp
225      230      235      240
Tyr Thr Pro Arg Glu Ser Phe Leu Asn Pro Gly Phe Arg Val Ser Leu
      245      250      255
Tyr

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<210> 8941

<211> 620

<212> PRT

<213> Enterobacter cloacae

<400> 8941

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Glu Ile Phe Gly Cys Tyr Thr Leu Phe Gln Pro Val Ile Trp Val Phe
1      5      10      15
Gly Phe Gln Ala Val Phe Cys Arg Gly Ala Ala Leu His Leu Leu Pro
      20      25      30
Gly Trp Lys Gln Gly Tyr Ser Gly Glu Asn Val Thr Lys Ile Arg Gln
      35      40      45
Leu Cys Leu Val Ser Leu Leu Thr Ser Gly Ile Ala Ser Ala Ala
      50      55      60
Asn Val Arg Leu Gln Val Glu Gly Leu Ser Gly Ala Leu Glu Lys Asn
65      70      75      80
Val Arg Ala Gln Leu Ser Thr Ile Gln Ser Asp Glu Val Thr Pro Asp
      85      90      95
Arg Arg Phe Arg Ala Arg Val Asp Asp Ala Ile Arg Glu Gly Leu Lys
      100      105      110
Ala Leu Gly Tyr Tyr Glu Pro Thr Ile Asp Phe Asp Leu Arg Pro Pro
      115      120      125
Pro Ala Lys Gly Arg Gln Val Leu Ile Ala Arg Val Ser Pro Gly Glu

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130	135	140
Pro Val Leu Ile Gly Gly Thr Asn Val Val Leu Arg Gly Gly Ala Arg		
145	150	155
Thr Asp Arg Asp Tyr Leu Asp Leu Leu Ser Thr Arg Pro Lys Val Gly		160
	165	170
Thr Val Leu Asn His Gly Asp Tyr Asp Arg Phe Lys Lys Ser Leu Thr		175
	180	185
Ser Val Ser Leu Arg Lys Gly Tyr Phe Asp Ser Gln Phe Asn Lys Ser		190
	195	200
Gln Leu Gly Val Ala Leu Glu Arg Arg Gln Ala Phe Trp Asp Ile Asp		205
	210	215
Tyr Asp Ser Gly Glu Arg Tyr Arg Phe Gly Asp Val Thr Phe Glu Gly		220
225	230	235
Ser Gln Ile Arg Asp Glu Tyr Leu Gln Asn Leu Val Pro Phe Lys Lys		240
	245	250
Gly Asp Tyr Tyr Gln Ser Ser Asp Leu Gly Glu Leu Asn Arg Arg Leu		255
	260	265
Ser Ala Thr Gly Trp Phe Asn Ser Val Val Ala Pro Glu Phe Asp		270
	275	280
Lys Ser Arg Lys Thr Lys Val Leu Pro Leu His Gly Val Val Ser Pro		285
290	295	300
Arg Thr Glu Asn Thr Ile Glu Thr Gly Val Gly Tyr Ser Thr Asp Val		305
	310	315
Gly Pro Arg Val Lys Ala Ser Trp Lys Lys Pro Trp Met Asn Ser Tyr		320
	325	330
Gly His Ser Leu Thr Thr Ser Val Ser Leu Ser Ala Pro Glu Gln Gln		335
	340	345
Leu Asp Phe Ser Tyr Lys Met Pro Leu Leu Lys Asn Pro Leu Glu Gln		350
	355	360
Tyr Tyr Leu Val Gln Gly Gly Phe Lys Arg Thr Asp Leu Asn Asp Thr		365
	370	375
Glu Gln Asp Ser Thr Thr Leu Ala Val Ser Arg Phe Trp Asp Leu Ser		380
385	390	395
Ser Gly Trp Gln Arg Ala Ile Asn Leu Arg Trp Ser Leu Asp His Phe		400
	405	410
Thr Gln Ala Asn Val Thr Asn Thr Thr Met Leu Leu Tyr Pro Gly Val		415
	420	425
Met Ile Ser Arg Thr Arg Ser Arg Gly Gly Leu Met Pro Thr Trp Gly		430
	435	440
Asp Ser Gln Arg Tyr Ser Ile Asp Tyr Ser Asn Thr Ala Trp Gly Ser		445
450	455	460
Asp Val Asp Phe Ser Val Phe Gln Ala Gln Asn Val Trp Ile Arg Thr		465
465	470	475
Leu Tyr Asp Lys His Arg Phe Val Met Arg Gly Asn Leu Gly Trp Ile		480
	485	490
Glu Thr Gly Asp Phe Glu Arg Val Pro Pro Asp Leu Arg Phe Phe Ala		495
	500	505
Gly Gly Asp Arg Ser Ile Arg Gly Tyr Lys Tyr Lys Ser Ile Ser Pro		510
	515	520
Glu Asn Asp Lys Gly Gln Leu Thr Gly Ala Ser Lys Leu Ala Thr Gly		525
	530	535
Ser Leu Glu Tyr Gln Tyr Asn Val Ser Gly Lys Trp Trp Gly Ala Met		540
545	550	555
Phe Val Asp Gly Gly Glu Ala Val Asn Asp Ile Arg Arg Ser Asp Phe		560
	565	570
Lys Thr Gly Ala Gly Val Gly Val Arg Trp Gln Ser Pro Val Gly Pro		575
	580	585
Ile Lys Leu Asp Phe Ala Val Pro Val Gly Asp Lys Asp Glu His Gly		590
	595	600
Leu Gln Phe Tyr Ile Gly Leu Gly Pro Glu Leu		605
610	615	620

<210> 8942
 <211> 363
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8942
 Ile Arg Ser Ser Lys Arg Ser Trp Cys Leu Ser Cys Leu Ser Cys Ser
 1 5 10 15
 Arg Arg Ala Leu Ser Leu Ser Leu Arg Gly Ser Ala Val Met Ile Lys
 20 25 30
 Arg Asn Leu Pro Leu Met Ile Thr Leu Gly Val Phe Val Leu Gly Tyr
 35 40 45
 Leu Tyr Cys Leu Thr Gln Phe Pro Gly Phe Ala Ser Thr Arg Val Ile
 50 55 60
 Cys Asn Ile Leu Thr Asp Asn Ala Phe Leu Gly Ile Ile Ala Val Gly
 65 70 75 80
 Met Thr Phe Val Ile Leu Ser Gly Gly Ile Asp Leu Ser Val Gly Ser
 85 90 95
 Val Ile Ala Phe Thr Gly Val Phe Leu Ala Lys Ala Ile Gly Phe Trp
 100 105 110
 Gly Ile Ser Pro Leu Leu Ala Phe Pro Leu Val Leu Val Met Gly Cys
 115 120 125
 Ala Phe Gly Ala Phe Met Gly Leu Leu Ile Asp Ala Leu Lys Ile Pro
 130 135 140
 Ala Phe Ile Ile Thr Leu Ala Gly Met Phe Phe Leu Arg Gly Val Ser
 145 150 155 160
 Tyr Leu Val Ser Glu Glu Ser Ile Pro Ile Asn His Pro Ile Tyr Asp
 165 170 175
 Thr Leu Ser Ser Leu Ala Trp Lys Ile Pro Gly Gly Gly Leu Ser Ser
 180 185 190
 Ala Met Gly Leu Leu Met Leu Gly Val Val Val Ile Gly Ile Phe Leu
 195 200 205
 Ala His Arg Thr Arg Phe Gly Asn Gln Val Tyr Ala Ile Gly Gly Ser
 210 215 220
 Ala Thr Ser Ala Asn Leu Met Gly Ile Ser Thr Arg Ser Thr Thr Ile
 225 230 235 240
 Arg Ile Tyr Met Leu Ser Thr Gly Leu Ala Thr Leu Ala Gly Ile Val
 245 250 255
 Phe Ser Val Tyr Thr Gln Ala Gly Tyr Ala Leu Ala Gly Val Gly Val
 260 265 270
 Glu Leu Asp Ala Ile Ala Ser Val Val Ile Gly Gly Thr Leu Leu Ser
 275 280 285
 Gly Gly Val Gly Thr Val Leu Gly Thr Leu Phe Gly Val Ala Ile Gln
 290 295 300
 Gly Leu Ile Gln Thr Tyr Ile Asn Phe Asp Gly Thr Leu Ser Ser Trp
 305 310 315 320
 Trp Thr Lys Ile Ala Ile Gly Ile Leu Leu Phe Ile Phe Ile Ala Leu
 325 330 335
 Gln Arg Gly Leu Thr Val Leu Trp Glu Asn Arg Gln Ser Ser Pro Val
 340 345 350
 Thr Arg Val Asn Thr Ser Leu Thr Glu Arg
 355 360

<210> 8943
 <211> 541
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8943
 Arg Pro Ile Leu Phe Phe Tyr Ala Gln Lys Tyr Leu Ala Thr Gly Asn

1	5	10	15
Asn Ile Met Leu Lys Thr Leu Ser Ile Arg Thr Gly Leu Leu Ser Leu			
20		25	30
Leu Ala Val Met Thr Leu Leu Leu Ile Val Ser Gly Ile Gly Ile			
35		40	45
Tyr Ala Leu Thr Gln Ser Ser Ala Ser Leu Gln Arg Ile Asn His Leu			
50		55	60
Gln Gly Glu Gln Met Val Gln Leu Asn Ala Gly Tyr Thr Leu Ile Leu			
65		70	75
Arg Ala Arg Asn Glu Ala Gly Gln Ala Val Arg Met Met Glu Val Gly			
85		90	95
Leu Leu Asp Asp Ala Ala Arg Ala Val Lys Thr Ile Asn Gln Glu Val			
100		105	110
Ala Leu Ala Gln Lys Thr Leu Lys Asp Val Ile Gly Ser Gly Val Ala			
115		120	125
Asp Glu Gln Gly Gln Lys Leu Leu Asp Asn Val Ala Ala Ser Leu Ala			
130		135	140
Val Tyr Asn Gln Gln Gly Ile Ser Pro Met Leu Lys Ala Leu Asn Glu			
145		150	155
Gln Ser Ala Asp Ser Tyr Tyr Asp Leu Leu Glu Asn Lys Leu Val Pro			
165		170	175
Val Ala Lys Gln Phe Asp Asn Asp Met Gln Ala Phe Gln Ala Trp Ser			
180		185	190
Glu Ala Arg Gly Lys Ala Glu Val Ser Ala Val Gln Ala Ser Lys Thr			
195		200	205
Arg Val Leu Ile Leu Ile Ile Val Ala Ala Leu Leu Thr Ala Gly Ile			
210		215	220
Ile Val Leu Ala Trp Leu Val Leu Arg His Met Leu Leu Glu Pro Leu			
225		230	235
Ser Ala Ser Ile Ala Gln Leu Glu His Val Ala Ala Gly Asp Leu Thr			
245		250	255
His Thr Leu Asn Ala Pro Ala Ser Gln Glu Phe Asn Arg Leu Asn Ala			
260		265	270
Ala Ile Glu Gly Met Arg Gln Ser Leu Met Asp Ser Val Leu Arg Val			
275		280	285
Arg Asp Ala Ser Ser Gln Ile Asp Thr Gly Ser Arg Glu Leu Thr Ala			
290		295	300
Gly Asn Met Asn Leu Ala Gln Arg Thr Glu Ser Thr Ala Thr Ser Leu			
305		310	315
Glu Gln Thr Ala Ala Ser Met Glu Glu Ile Thr Ala Thr Val Lys Leu			
325		330	335
Asn Ala Asp Asn Ala Glu Gln Ala His Gln Leu Ala Lys Ser Val Ser			
340		345	350
Asp Thr Ala Asp His Gly Ser Glu Met Val Cys Tyr Val Ile Glu Lys			
355		360	365
Met Arg Asp Ile Ser Gly Ser Ser Ala Arg Ile Ala Asp Ile Leu Ser			
370		375	380
Val Ile Asp Gly Ile Ala Phe Gln Thr Asn Ile Leu Ala Leu Asn Ala			
385		390	395
Ser Val Glu Ala Ala Arg Ala Gly Glu Gln Gly Arg Gly Phe Ala Val			
405		410	415
Val Ala Gly Glu Val Arg Asn Leu Ala Ser Arg Ser Ala Asp Ala Ala			
420		425	430
Lys Glu Ile His Ser Leu Ile Ser Asp Ser Gln Thr His Val Asn Glu			
435		440	445
Gly Ser Glu Leu Ala Gln Gln Ala Gly Glu Thr Met Asp Glu Ile Ala			
450		455	460
Thr Glu Val Leu Arg Met Thr Lys Leu Met Arg Glu Ile Ala Thr Ala			
465		470	475
Ser Gln Glu Gln Ser Arg Gly Ile Glu Gln Val Asn Ile Ala Val Asn			
485		490	495

Gln Met Asp Glu Thr Ala Gln Gln Asn Ala Ala Leu Val Gln Gln Ser
 500 505 510
 Ser Ala Ala Thr Arg Ser Leu Glu Glu Gln Ser Arg Glu Leu Met Glu
 515 520 525
 Ala Met Ala Ser Phe Lys Leu Thr Thr Gln Thr Ala
 530 535 540

<210> 8944

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 8944

Arg Met Arg Ile His Ile Leu Gly Ile Cys Gly Thr Phe Met Gly Gly
 1 5 10 15
 Leu Ala Met Leu Ala Arg Ser Leu Gly His Glu Val Thr Gly Ser Asp
 20 25 30
 Ala Asn Val Tyr Pro Pro Met Ser Thr Leu Leu Glu Lys Gln Gly Ile
 35 40 45
 Ser Leu Ile Gln Gly Tyr Asp Ala Ser Gln Leu Glu Pro Gln Pro Asp
 50 55 60
 Leu Val Ile Val Gly Asn Ala Met Thr Arg Gly Asn Pro Cys Val Glu
 65 70 75 80
 Ala Val Leu Glu Arg Asn Ile Pro Tyr Met Ser Gly Pro Gln Trp Leu
 85 90 95
 His Asp Phe Val Leu Arg Asp Arg Trp Val Val Ala Val Ala Gly Thr
 100 105 110
 His Gly Lys Thr Thr Thr Ala Gly Met Ala Thr Trp Ile Leu Glu Ala
 115 120 125
 Cys Gly Tyr Lys Pro Gly Phe Val Ile Gly Gly Val Pro Gly Asn Phe
 130 135 140
 Asp Val Ser Ala Arg Leu Gly Asp Ser Pro Phe Phe Val Ile Glu Ala
 145 150 155 160
 Asp Glu Tyr Asp Cys Ala Phe Phe Asp Lys Arg Ser Lys Phe Val His
 165 170 175
 Tyr Cys Pro Arg Thr Leu Ile Leu Asn Asn Leu Glu Phe Asp His Ala
 180 185 190
 Asp Ile Phe Asp Asp Leu Lys Ala Ile Gln Lys Gln Phe His His Leu
 195 200 205
 Val Arg Ile Val Pro Gly Gln Gly Arg Ile Ile Leu Pro Glu Asn Asp
 210 215 220
 Ile Asn Leu Lys Gln Thr Met Ala Met Gly Cys Trp Ser Glu Gln Glu
 225 230 235 240
 Leu Val Gly Glu Gln Gly His Trp Gln Ala Lys Lys Leu Asn Ala Asp
 245 250 255
 Ala Ser Glu Trp Glu Val Leu Leu Asp Gly Glu Lys Val Gly Glu Val
 260 265 270
 Lys Trp Gly Leu Val Gly Glu His Asn Met His Asn Gly Leu Met Ala
 275 280 285
 Ile Ala Ala Ala Arg His Val Gly Val Leu Pro Ala Asp Ala Ala Asn
 290 295 300
 Ala Leu Gly Thr Phe Ile Asn Ala Arg Arg Arg Leu Glu Leu Arg Gly
 305 310 315 320
 Glu Ala His Gly Val Thr Val Tyr Gly Asp Phe Ala His His Pro Thr
 325 330 335
 Ala Ile Leu Ala Thr Leu Ala Ala Leu Arg Gly Lys Val Gly Gly Thr
 340 345 350
 Ala Arg Ile Leu Ala Val Leu Glu Pro Arg Ser Asn Thr Met Lys Met
 355 360 365
 Gly Ile Cys Lys Asp Asp Leu Ala Pro Ser Leu Gly Arg Ala Asp Glu
 370 375 380

Val Phe Leu Leu Gln Pro Gln His Ile Pro Trp Gln Val Ala Glu Val
 385 390 395 400
 Ala Asp Ala Cys Ile Gln Pro Ala His Trp Ser Ala Asp Val Asp Val
 405 410 415
 Leu Ala Asp Met Val Val Lys Ala Ala Gln Pro Gly Asp His Ile Leu
 420 425 430
 Val Met Ser Asn Gly Gly Phe Gly Gly Ile His Gln Lys Leu Asp
 435 440 445
 Gly Leu Ala Lys Lys Ala Ala Ala Glu
 450 455

<210> 8945

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 8945

Tyr Pro Arg Ala Leu Arg Arg Pro Pro Tyr Gln Glu Asn Pro Met Phe
 1 5 10 15
 Asp Leu Leu Leu Arg Arg Ala Arg Leu Ala Asp Asp Thr Leu Thr Asp
 20 25 30
 Ile Ala Ile Gln Asp Gly Lys Ile Ala Ala Thr Gly Asp Ile Asn Ala
 35 40 45
 Pro Ala Arg Lys Thr Val Glu Leu Asn Gly Asp Val Phe Val Ser Ala
 50 55 60
 Gly Trp Ile Asp Ser His Val His Cys Tyr Pro Asn Ser Pro Ile Tyr
 65 70 75 80
 His Asp Glu Pro Asp Ser Val Gly Ile Ala Thr Gly Val Thr Thr Val
 85 90 95
 Val Asp Ala Gly Ser Thr Gly Ala Asp Asp Val Asp Asp Phe Tyr Ala
 100 105 110
 Ile Thr Arg Lys Ala Ser Thr Glu Val Phe Ala Leu Leu Asn Ile Ser
 115 120 125
 Arg Val Gly Leu Ile Ala Gln Asn Glu Leu Ala Asn Met Ala Asn Ile
 130 135 140
 Asp Ala Asp Ala Val Lys Glu Ala Val Lys Arg His Pro Asp Phe Ile
 145 150 155 160
 Val Gly Leu Lys Ala Arg Met Ser Ser Ser Val Val Gly Glu Asn Gly
 165 170 175
 Ile Thr Pro Leu Ala Arg Ala Lys Ala Ile Gln Lys Glu Asn Gly Asp
 180 185 190
 Leu Pro Leu Met Val His Ile Gly Asn Asn Pro Pro Asn Leu Asp Glu
 195 200 205
 Ile Ala Glu Leu Leu Ser Ser Gly Asp Ile Ile Thr His Cys Tyr Asn
 210 215 220
 Gly Lys Pro Asn Arg Ile Leu Thr Pro Ser Gly Glu Leu Arg Ala Ser
 225 230 235 240
 Ile Thr Ser Ala Leu Lys Arg Gly Val Arg Leu Asp Val Gly His Gly
 245 250 255
 Thr Ala Ser Phe Ser Phe Glu Val Ala Lys Arg Ala Ile Ala Met Gly
 260 265 270
 Ile Leu Pro His Thr Ile Ser Ser Asp Ile Tyr Cys Arg Asn Arg Ile
 275 280 285
 Asn Gly Pro Val Gly Ser Leu Ala Ser Val Met Ser Lys Phe Leu Ala
 290 295 300
 Ile Gly Met Ser Leu Pro Gln Val Ile Asp Cys Val Thr Ala Asn Ala
 305 310 315 320
 Ala Asp Gly Leu Arg Leu Thr Arg Lys Gly Arg Ile Gln Pro Gly Leu
 325 330 335
 Asp Ala Asp Leu Thr Leu Phe Thr Leu Lys Arg Gln Pro Thr Val Leu
 340 345 350

Thr Asp Ala Glu Asn Asp Ser Leu Gln Ala Glu His Ile Leu Val Pro
 355 360 365
 Leu Ala Ala Ile Arg Ala Gly Lys Gly Tyr Met Thr Glu Gln Gly Ser
 370 375 380
 Thr Glu His Ala Phe Asp Leu
 385 390

<210> 8946

<211> 641

<212> PRT

<213> Enterobacter cloacae

<400> 8946

Glu Asp Asn Asp Val Arg Phe Pro Asn Gln Arg Leu Ala Gln Leu Phe
 1 5 10 15
 Asp Leu Leu Gln Asn Glu Thr Leu Pro Gln Asp Glu Leu Ala Gln Arg
 20 25 30
 Leu Ser Val Ser Thr Arg Thr Val Arg Ala Asp Ile Thr Ala Leu Asn
 35 40 45
 Ala Leu Leu Ala Ser His Gly Ala Gln Phe Ile Leu Ser Arg Gly Asn
 50 55 60
 Gly Tyr Gln Leu Lys Ile Asn Asp Val Ala Arg Tyr Gln Gln Leu Gln
 65 70 75 80
 Ala Ser His Pro Arg Ala Leu Arg Ile Pro Arg Thr Gly Pro Glu Arg
 85 90 95
 Val His Tyr Leu Val Val Arg Phe Leu Thr Ser Ala Phe Ser Ile Lys
 100 105 110
 Leu Glu Asp Leu Ala Asp Glu Trp Phe Val Ser Arg Ala Thr Leu Gln
 115 120 125
 Ser Asp Met Val Glu Val Arg Glu Trp Phe His Arg Tyr Asn Leu Thr
 130 135 140
 Leu Glu Thr Arg Pro Arg His Gly Met Lys Leu Phe Gly Ser Glu Met
 145 150 155 160
 Ala Ile Arg Ala Cys Leu Thr Asp Leu Leu Trp Glu Leu Ala Gln Gln
 165 170 175
 Asp Ser Leu Asn Pro Leu Val Thr Asp Val Ala Leu Asn Ala Gly Val
 180 185 190
 Ala Glu Lys Met Val Pro Val Leu His Asp Ala Leu Thr Arg His His
 195 200 205
 Ile Arg Leu Thr Asp Glu Gly Glu Leu Phe Leu Arg Leu Tyr Cys Ala
 210 215 220
 Val Ser Val Arg Arg Ile Ser Glu Gly Tyr Pro Leu Pro Glu Phe His
 225 230 235 240
 Ala Glu Asp Val Glu Glu Asn Val His Glu Ala Ala Lys Asp Ile Ala
 245 250 255
 Val Ala Ile Gln Glu Leu Ala Gly Lys Ala Leu Ser Pro Ser Glu Glu
 260 265 270
 Ser Trp Leu Cys Val His Ile Ala Ala Arg Gln Ile Gln Glu Ile Ala
 275 280 285
 Pro Ser Ala Ile Asn Ala Asp Asp Asp Glu Ala Leu Val Asn Tyr Ile
 290 295 300
 Leu Arg Tyr Ile Asn Thr His Tyr Asn Tyr Asn Leu Leu Ser Asp Glu
 305 310 315 320
 Gln Leu His Ala Asp Leu Leu Thr His Ile Lys Thr Met Ile Thr Arg
 325 330 335
 Val Arg Tyr Gln Ile Met Ile Pro Asn Pro Leu Leu Asp Asn Ile Lys
 340 345 350
 Gln His Tyr Pro Met Ala Trp Asp Met Thr Leu Ala Ala Val Ser Ser
 355 360 365
 Trp Gly Lys Tyr Thr Pro Tyr Val Ile Ser Glu Asn Glu Ile Gly Phe
 370 375 380

```

Leu Val Leu His Ile Gly Val Gly Leu Glu Arg His Tyr Asn Ile Gly
385          390          395          400
Tyr Gln Arg Gln Pro Arg Val Leu Leu Val Cys Asp Ala Gly Asn Ala
          405          410          415
Met Val Arg Met Ile Glu Ala Val Leu Gln Arg Lys Tyr Pro Gln Ile
          420          425          430
Glu Val Thr Arg Thr Leu Thr Leu Arg Glu Tyr Glu Leu Ala Asp Ala
          435          440          445
Ile Gly Glu Asp Phe Val Ile Ser Thr Ala Arg Val Ser Glu Lys Ser
          450          455          460
Lys Pro Val Val Met Ile Ala Pro Phe Pro Thr Asp Tyr Gln Leu Glu
          465          470          475          480
Gln Ile Gly Lys Leu Val Leu Val Asp Arg Thr Arg Pro Trp Met Leu
          485          490          495
Glu Lys Tyr Phe Asp Ala Ala His Phe Arg Ile Ile Asp Lys Pro Val
          500          505          510
Asp Gln Gln Thr Leu Phe Arg Glu Leu Cys Glu Gln Leu Glu Ala Glu
          515          520          525
Gly Phe Val Gly Ala Glu Phe Leu Asp Ser Val Ile Glu Arg Glu Ala
          530          535          540
Ile Val Ser Thr Met Leu Gly Asp Gly Ile Ala Leu Pro His Ser Leu
          545          550          555          560
Gly Leu Leu Ala Gln Lys Thr Val Val Tyr Thr Val Leu Ala Pro Gln
          565          570          575
Gly Ile Gln Trp Gly Asp Glu Thr Ala His Val Ile Phe Leu Leu Ala
          580          585          590
Ile Ser Lys Ser Glu Tyr Glu Glu Ala Met Ala Ile Tyr Asp Ile Phe
          595          600          605
Val Thr Phe Leu Arg Glu Arg Ala Met Ala Arg Leu Cys Gln Cys Glu
          610          615          620
Asn Phe Ala Ala Phe Lys Ala Val Ala Met Glu Ser Leu Ser Arg Phe
          625          630          635          640

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<210> 8947

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 8947

```

Val Leu Ala Met Arg Ile Phe Val Tyr Gly Ser Leu Arg Thr Arg Gln
1          5          10          15
Gly Asn Ser His Trp Met Thr Asn Ala Gln Leu Leu Gly Asn Tyr Thr
          20          25          30
Ile Glu Asn Tyr Gln Leu Tyr Ser Leu Gly His Tyr Pro Gly Ala Val
          35          40          45
Pro Gly Asn Gly Thr Val Gln Gly Glu Val Tyr Arg Ile Asp Asn Ala
          50          55          60
Thr Leu Ala Glu Leu Asp Ala Leu Arg Thr Arg Gly Gly Glu Tyr Ala
          65          70          75          80
Arg Gln Leu Ile Gln Thr Pro Tyr Gly Ser Ala Trp Met Tyr Val Tyr
          85          90          95
Gln Arg Ser Val Asp Gly Leu Thr Leu Ile Glu Ser Gly Asn Trp Leu
          100          105          110
Asp Arg Asp Gln Phe
          115

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<210> 8948

<211> 368

<212> PRT

<213> Enterobacter cloacae

<400> 8948

```

Asn Glu Ser Asp Tyr Lys Leu Val Ile Asn Val Leu Phe Thr Phe Leu
1      5      10      15
Lys Cys Asp Val Thr Gln Ser Val Thr Tyr Ser Ile Gly Tyr Ser Ser
      20      25      30
Ser Ala Glu His Leu Leu Thr Asn Asn Asn Leu Pro Tyr Glu Asp Val
      35      40      45
His Met Trp Lys Arg Leu Leu Val Thr Ala Val Ser Ala Ala Met
      50      55      60
Ser Ser Met Ala Met Ala Ala Pro Leu Thr Val Gly Phe Ser Gln Val
65      70      75      80
Gly Ser Glu Ser Gly Trp Arg Ala Ala Glu Thr Asn Val Ala Lys Ser
      85      90      95
Glu Ala Glu Lys Arg Gly Ile Thr Leu Lys Ile Ala Asp Gly Gln Gln
      100      105      110
Lys Gln Glu Asn Gln Ile Lys Ala Val Arg Ser Phe Ile Ala Gln Gly
      115      120      125
Val Asp Ala Ile Phe Ile Ala Pro Val Val Ala Thr Gly Trp Glu Pro
130      135      140
Val Leu Lys Glu Ala Lys Asp Ala Glu Ile Pro Val Phe Leu Leu Asp
145      150      155      160
Arg Ser Ile Asp Val Lys Asp Lys Ser Leu Tyr Met Thr Thr Val Thr
      165      170      175
Ala Asp Asn Val Leu Glu Gly Lys Leu Ile Gly Asp Trp Leu Val Lys
      180      185      190
Gln Val Asp Gly Lys Pro Cys Asn Val Val Glu Leu Gln Gly Thr Val
      195      200      205
Gly Ala Ser Val Ala Ile Asp Arg Lys Lys Gly Phe Ala Glu Ala Ile
210      215      220
Ala Lys Ala Pro Asn Ile Lys Ile Ile Arg Ser Gln Ser Gly Asp Phe
225      230      235      240
Thr Arg Ser Lys Gly Lys Glu Val Met Glu Ser Phe Ile Lys Ala Glu
      245      250      255
Asn Asn Gly Lys Asn Ile Cys Met Val Tyr Ala His Asn Asp Asp Met
      260      265      270
Val Ile Gly Ala Ile Gln Ala Ile Lys Glu Ala Gly Leu Lys Pro Gly
      275      280      285
Lys Asp Ile Leu Thr Gly Ser Ile Asp Gly Val Pro Asp Ile Tyr Lys
290      295      300
Ala Met Ile Asp Gly Glu Ala Asn Ala Ser Val Glu Leu Thr Pro Asn
305      310      315      320
Met Ala Gly Pro Ala Phe Asp Ala Leu Glu Lys Phe Lys Lys Asp Gly
      325      330      335
Thr Gln Pro Glu Lys Leu Thr Ile Thr Lys Ser Thr Leu Tyr Leu Pro
      340      345      350
Asp Thr Ala Lys Glu Glu Leu Glu Lys Lys Lys Asn Met Gly Tyr
      355      360      365

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<210> 8949

<211> 538

<212> PRT

<213> Enterobacter cloacae

<400> 8949

```

Pro Ser Ser Arg Arg Gly Glu Gly Lys Gly Arg Val Gly Gln Lys Ile
1      5      10      15
Lys Asp Gly His Asp Ile Val Pro Ser Pro Leu Arg Gly Glu Gly Gln
      20      25      30
Gly Glu Gly Glu Thr Met Thr Thr Glu Gln His Gln Glu Ile Leu Arg

```

Thr	50	Gly	Leu	Ser	Lys	Phe	Pro	Gly	Val	Lys	Ala	Leu	Asp	Asn
Val	65	Asp	Phe	Ser	Leu	Arg	Gly	Glu	Ile	Met	Ala	Leu	Gly	80
Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu	Ile	Lys	Thr	Leu	Thr	Gly	95
His	Ala	Asp	Arg	Gly	Ala	Ile	Trp	Leu	Glu	Gly	Asn	Ala	Ile	Ser
Lys	Asn	Thr	Ala	His	Ala	Gln	Gln	Leu	Gly	Ile	Gly	Thr	Val	Tyr
Glu	Val	Asn	Leu	Leu	Pro	Asn	Met	Ser	Val	Ala	Asp	Asn	Leu	Phe
Gly	Arg	Glu	Pro	Arg	Arg	Phe	Gly	Leu	Leu	Arg	Arg	Lys	Glu	Met
Ala	Arg	Ala	Ala	Lys	Leu	Met	Glu	Ser	Tyr	Gly	Phe	Ser	Leu	Asp
Arg	Glu	Pro	Leu	Asn	Arg	Phe	Ser	Val	Ala	Met	Gln	Gln	Ile	Val
Ile	Cys	Arg	Ala	Ile	Asp	Leu	Ser	Ala	Lys	Val	Leu	Ile	Leu	Asp
Pro	Thr	Ala	Ser	Leu	Asp	Thr	Gln	Glu	Val	Glu	Met	Leu	Phe	Thr
Met	Arg	Gln	Leu	Arg	Asn	Gln	Gly	Val	Ser	Lys	Ile	Phe	Val	Thr
Phe	Leu	Asp	Gln	Val	Tyr	Glu	Val	Ser	Asp	Arg	Ile	Thr	Val	Leu
Asn	Gly	Ser	Phe	Val	Gly	Cys	Arg	Glu	Thr	Arg	Glu	Leu	Pro	Gln
Glu	Leu	Val	Lys	Met	Met	Leu	Gly	Arg	Glu	Leu	Glu	Thr	Asn	Ala
Gln	Arg	Ala	Gly	Arg	Thr	Leu	Leu	Ser	Glu	Lys	Pro	Ile	Ala	Ala
His	Asp	Tyr	Gly	Arg	Lys	Gly	Thr	Ile	Ala	Pro	Phe	Asn	Leu	Glu
Arg	Pro	Gly	Glu	Ile	Val	Gly	Leu	Ala	Gly	Leu	Leu	Gly	Ser	Gly
Thr	Glu	Thr	Ala	Glu	Val	Ile	Phe	Gly	Ile	Lys	Pro	Ala	Asp	Ser
Thr	Ala	Leu	Ile	Lys	Gly	Lys	Leu	Gln	Thr	Leu	Arg	Ser	Pro	His
Ala	Ser	Cys	Leu	Gly	Val	Gly	Phe	Cys	Pro	Glu	Asp	Arg	Lys	Thr
Gly	Ile	Ile	Ala	Ala	Ala	Ser	Val	Arg	Glu	Asn	Ile	Ile	Leu	Ala
Gln	Ala	Gln	Arg	Gly	Trp	Leu	Arg	Pro	Ile	Pro	Lys	Arg	Glu	Gln
Ala	Ile	Ala	Glu	Arg	Phe	Ile	Arg	Gln	Leu	Gly	Ile	Arg	Thr	Pro
Ala	Glu	Gln	Pro	Ile	Glu	Phe	Leu	Ser	Gly	Gly	Asn	Gln	Gln	Lys
Leu	Leu	Ser	Arg	Trp	Leu	Leu	Thr	Lys	Pro	Gln	Phe	Leu	Ile	Leu
Glu	Pro	Thr	Arg	Gly	Ile	Asp	Val	Gly	Ala	His	Ala	Glu	Ile	Ile
Leu	Ile	Glu	Thr	Leu	Cys	Ala	Asp	Gly	Leu	Ala	Leu	Leu	Val	Ile
Ser	Glu	Leu	Glu	Glu	Leu	Val	Gly	Tyr	Ala	Asp	Arg	Val	Ile	Met
Arg	Asp	Arg	Arg	Gln	Val	Ala	Glu	Ile	Pro	Leu	Asp	Lys	Leu	Ser

Pro Ala Ile Met Asn Ala Ile Ala Ala
530 535

<210> 8950

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 8950

Lys Lys Arg Leu Met Leu Pro Val Lys Thr Arg Thr Glu Lys Arg Phe
1 5 10 15
Ser Val Arg Leu His Leu Thr Leu Ser Tyr Ser Met Ala Phe Ala Met
20 25 30
Lys Val Thr Ser Gln Val Glu Ala Gln Arg Lys Ile Leu Glu Glu Ala
35 40 45
Val Ser Thr Ala Leu Thr Leu Ala Ser Gly Lys Ser Asp Gly Ala Glu
50 55 60
Val Ala Val Ser Lys Thr Thr Gly Ile Ser Val Ser Thr Arg Tyr Gly
65 70 75 80
Glu Val Glu Asn Val Glu Phe Asn Ser Asp Gly Ala Leu Gly Ile Thr
85 90 95
Val Tyr His Gln Asn Arg Lys Gly Ser Ala Ser Ser Thr Asp Leu Ser
100 105 110
Pro Asp Ala Ile Ala Arg Thr Val Gln Ala Ala Leu Asp Ile Ala Arg
115 120 125
Tyr Thr Ser Pro Asp Pro Tyr Ala Gly Val Ala Asp Lys Glu Leu Leu
130 135 140
Ala Phe Asp Ala Pro Asp Leu Asp Leu Phe His Pro Ala Glu Val Thr
145 150 155 160
Pro Asp Glu Ala Ile Glu Leu Ala Ala Arg Ala Glu Gln Ala Ser Leu
165 170 175
Gln Ala Asp Lys Arg Ile Thr Asn Thr Glu Gly Gly Ser Phe Asn Ser
180 185 190
His Tyr Gly Ile Lys Val Phe Gly Asn Ser His Gly Met Leu Gln Gly
195 200 205
Tyr Cys Ser Thr Arg His Ser Leu Ser Ser Cys Val Ile Ala Glu Glu
210 215 220
Asn Gly Asp Met Glu Arg Asp Tyr Ala Tyr Thr Ile Gly Arg Ala Leu
225 230 235 240
Gly Asp Leu Gln Ser Pro Glu Trp Val Gly Lys Ala Cys Ala Glu Arg
245 250 255
Thr Leu Ser Arg Leu Ser Pro Arg Lys Leu Ser Thr Met Lys Ala Pro
260 265 270
Val Ile Phe Ala Asn Glu Val Ala Thr Gly Leu Phe Gly His Leu Val
275 280 285
Gly Ala Ile Ala Gly Gly Ser Val Tyr Arg Lys Ser Thr Phe Leu Leu
290 295 300
Asp Ser Leu Gly Lys Gln Ile Leu Pro Glu Trp Leu Thr Ile Glu Glu
305 310 315 320
His Pro His Leu Leu Lys Gly Leu Ala Ser Thr Pro Phe Asp Ser Glu
325 330 335
Gly Val Arg Thr Glu Arg Arg Asp Ile Val Lys Asp Gly Ile Leu Thr
340 345 350
Gln Trp Leu Leu Thr Asn Tyr Ser Ala Arg Lys Leu Gly Leu Lys Ser
355 360 365
Thr Gly His Ala Gly Gly Ile His Asn Trp Arg Ile Ala Gly Gln Gly
370 375 380
Leu Asn Phe Glu Gln Met Leu Lys Glu Met Gly Thr Gly Leu Val Val
385 390 395 400
Thr Glu Leu Met Gly Gln Gly Val Ser Gly Ile Thr Gly Asp Tyr Ser
405 410 415

Arg Gly Ala Ala Gly Phe Trp Val Glu Asn Gly Glu Ile Gln Tyr Pro
 420 425 430
 Val Ser Glu Ile Thr Ile Ala Gly Asn Leu Lys Asp Met Trp Arg Asn
 435 440 445
 Ile Val Thr Val Gly Asn Asp Ile Glu Thr Arg Ser Asn Ile Gln Cys
 450 455 460
 Gly Ser Val Leu Leu Pro Glu Met Lys Ile Ala Gly Gln
 465 470 475

<210> 8951

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 8951

Ala Met Arg Lys His Leu Leu Ala Ile Val Ala Ala Ser Thr Leu Val
 1 5 10 15
 Leu Gly Ser Ser Ala Phe Ala Ala Asp Leu Glu Asp Asn Met Asp Ile
 20 25 30
 Leu Ser Gln Asn Leu Lys Val Val Lys Lys Thr Asp Asn Ala Ala Glu
 35 40 45
 Met Lys Asp Ala Leu Thr Lys Met Arg Glu Ala Ala Leu Asp Ala Gln
 50 55 60
 Lys Ala Thr Pro Pro Lys Leu Glu Ser Lys Ala Ala Asp Ser Ala Glu
 65 70 75 80
 Met Lys Asp Tyr Arg His Gly Phe Asp Val Leu Val Gly Gln Ile Asp
 85 90 95
 Gly Ala Leu Lys Leu Ala Asn Glu Gly Lys Val Lys Glu Ala Gln Ala
 100 105 110
 Ala Ala Asp Gln Phe Ala Ala Thr Arg Asn Ala Tyr His Lys Lys Tyr
 115 120 125
 Arg
 130

<210> 8952

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 8952

Pro Asn Lys Gly Ala Arg Asn Met Pro Ser Ile Tyr Glu Lys Tyr Asn
 1 5 10 15
 Leu Lys Gln Val Ile Asn Thr Ser Gly Arg Met Thr Ala Leu Gly Val
 20 25 30
 Ser Thr Pro Arg Pro Glu Val Val Gln Ala Ala Met Asn Gly Met Asn
 35 40 45
 His Tyr Phe Glu Met Lys Glu Leu Val Asn Lys Thr Gly Glu Tyr Ile
 50 55 60
 Ala Lys Leu Leu Glu Val Glu Gly Ala Thr Val Val Ser Cys Ala Ser
 65 70 75 80
 Ala Gly Ile Ala Gln Ser Val Ala Ala Val Leu Val Lys Asp Ser Asp
 85 90 95
 Trp Leu Leu Glu Asn Leu His Val Thr Pro Ile Glu Asn Asn Glu Ile
 100 105 110
 Val Leu Pro Lys Gly His Asn Val Asn Phe Gly Ala Pro Val Gly Thr
 115 120 125
 Met Val Ala Leu Gly Gly Lys Leu Val Glu Ala Gly Tyr Ala Asn
 130 135 140
 Glu Cys Ser Ala Asp Gln Leu Ala Ala Ala Ile Thr Pro Arg Thr Ala
 145 150 155 160
 Ala Ile Leu Tyr Ile Lys Ser His His Cys Val Gln Lys Ser Met Leu

165 170 175
 Ser Val Glu Gln Ala Ala Val Val Ala Arg Lys His Asp Leu Pro Leu
 180 185 190
 Ile Val Asp Ala Ala Ala Glu Glu Asp Leu His Thr Tyr Tyr Arg Ser
 195 200 205
 Gly Ala Asp Leu Val Ile Tyr Ser Gly Ala Lys Ala Ile Glu Gly Pro
 210 215 220
 Thr Ser Gly Leu Val Ile Gly Lys Thr Gln Tyr Val Glu Trp Val Lys
 225 230 235 240
 Arg Gln Thr Ala Gly Ile Gly Arg Ala Met Lys Val Gly Lys Glu Gly
 245 250 255
 Ile Leu Gly Leu Thr Cys Ala Ile Glu His Tyr Leu Thr Ala Thr Lys
 260 265 270
 Glu Ser Gly Ala Glu Met Val Ala Lys Met Thr Pro Phe Ile Glu Ala
 275 280 285
 Leu Asn Thr Leu Asn Gly Val Thr Ala Arg Val Val Trp Asp Ser Ala
 290 295 300
 Gly Arg Asp Ile Ala Arg Thr Glu Ile Lys Phe Asp Glu Ala Thr Thr
 305 310 315 320
 Gly Val Gly Thr Gly Asp Leu Val Asn Ala Leu Lys Gln Gly Glu Tyr
 325 330 335
 Ala Ile Tyr Phe Arg Gly Tyr Lys Ala Asn Glu Gly Ile Ile Glu Ala
 340 345 350
 Asp Val Arg Ser Val Asn Ala Asp Gln Leu Asn Ile Val Tyr Arg Arg
 355 360 365
 Ile Ser Glu Val Leu Gly Gln Glu Lys Asn Ala 380
 370 375

<210> 8953

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 8953

Lys Asp Leu Ile Arg Ser Leu Ser Arg Leu Lys Ser Ala Arg Ser Asn
 1 5 10 15
 Ala Val Ile Ala Phe Phe Phe Thr Phe Asn Arg Pro Asp Met Thr Asn
 20 25 30
 Ser Asn Arg Ile Lys Leu Thr Trp Ile Ser Phe Phe Ser Tyr Ala Leu
 35 40 45
 Thr Gly Ala Leu Val Ile Val Thr Gly Met Val Met Gly Asn Ile Ala
 50 55 60
 Asp Tyr Phe Gln Leu Pro Val Ser Ser Met Ser Asn Thr Phe Thr Phe
 65 70 75 80
 Leu Asn Ala Gly Ile Leu Ile Ser Ile Phe Leu Asn Ala Trp Leu Met
 85 90 95
 Glu Ile Val Pro Leu Lys Thr Gln Leu Arg Phe Gly Phe Val Leu Met
 100 105 110
 Val Ala Ala Val Ala Gly Leu Met Leu Ser His Ser Ile Ala Leu Phe
 115 120 125
 Ser Ala Ala Met Phe Val Leu Gly Leu Val Ser Gly Ile Thr Met Ser
 130 135 140
 Ile Gly Thr Phe Leu Ile Thr His Met Tyr Glu Gly Arg Gln Arg Gly
 145 150 155 160
 Ala Arg Leu Leu Phe Thr Asp Ser Phe Phe Ser Met Ala Gly Met Ile
 165 170 175
 Phe Pro Met Val Ala Ala Tyr Leu Leu Ala Arg Ser Ile Glu Trp Tyr
 180 185 190
 Trp Val Tyr Ala Cys Ile Gly Leu Val Tyr Val Ala Ile Phe Ile Leu
 195 200 205
 Thr Phe Gly Cys Glu Phe Pro Val Leu Gly Lys Lys Ala Gln Thr Thr

210 215 220
 Ser Glu Pro Val Ala Lys Glu Lys Trp Gly Ile Gly Val Leu Phe Leu
 225 230 235 240
 Ser Ile Ala Ala Leu Cys Tyr Ile Leu Gly Gln Leu Gly Phe Ile Ser
 245 250 255
 Leu Gly Ser Arg Val Cys
 260

<210> 8954
 <211> 120
 <212> PRT
 <213> Enterobacter cloacae

<400> 8954
 Thr Tyr Ser Gly Asp Ala Gly Gly Gly Lys Arg Met Ser Gln Trp Val
 1 5 10 15
 Asn Ile Cys Asn Ile Asn Asp Ile Leu Pro Ala Thr Gly Val Cys Ala
 20 25 30
 Leu Leu Gly Asn Glu Gln Val Ala Ile Phe Arg Pro Arg His Asp Glu
 35 40 45
 Gln Val Tyr Ala Ile Ser Asn Ile Asp Pro Phe Phe Glu Ala Ser Val
 50 55 60
 Leu Ser Arg Gly Leu Ile Ala Glu His Gln Gly Glu Leu Trp Val Ala
 65 70 75 80
 Ser Pro Leu Lys Lys Gln Arg Phe Arg Leu Thr Asp Gly Arg Cys Met
 85 90 95
 Glu Asp Glu Ser Phe Ser Val Lys His Tyr Asp Val Arg Val Lys Asp
 100 105 110
 Gly Glu Val Gln Leu Lys Gly
 115 120

<210> 8955
 <211> 252
 <212> PRT
 <213> Enterobacter cloacae

<400> 8955
 Ser Asp Asn Val Pro Ala Arg Gln Val Val Leu Pro Cys Arg Ala Arg
 1 5 10 15
 Phe Phe Trp Leu Glu Phe Pro Leu Met His Leu Asp Ile Asp Trp Gln
 20 25 30
 Ala Val Asp Thr Val Leu Leu Asp Met Asp Gly Thr Leu Leu Asp Leu
 35 40 45
 Ala Phe Asp Asn Tyr Phe Trp Gln Lys Leu Val Pro Glu Thr Tyr Gly
 50 55 60
 Glu Gln Gln Gly Ile Ser Pro Ala Glu Ala Gln Glu Phe Ile Arg Ser
 65 70 75 80
 Gln Tyr Ser Ala Val Gln His Thr Leu Asn Trp Tyr Cys Leu Asp Tyr
 85 90 95
 Trp Ser Glu Arg Leu Gly Leu Asp Ile Cys Ala Met Thr Thr Ala Gln
 100 105 110
 Gly Ala Arg Ala Val Leu Arg Glu Asp Thr Val Pro Phe Leu Asp Ala
 115 120 125
 Leu Lys Ala Cys Gly Lys Arg Arg Ile Leu Leu Thr Asn Ala His Pro
 130 135 140
 His Asn Leu Ala Val Lys Leu Glu His Thr Gly Leu Ala Ser His Leu
 145 150 155 160
 Asp Leu Leu Leu Ser Thr His Thr Phe Gly Tyr Pro Lys Glu Asp Gln
 165 170 175
 Arg Leu Trp His Ala Val Val Glu Glu Thr Gly Leu Gln Pro Glu Arg
 180 185 190

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Thr Leu Phe Ile Asp Asp Ser Glu Pro Ile Leu Asp Ser Ala Ala Ala
      195      200      205
Phe Gly Ile Arg Tyr Cys Leu Gly Val Thr Asn Pro Asp Ser Gly Leu
      210      215      220
Ala Glu Lys Ser Tyr Leu Arg His Pro Gly Leu Asn Asp Tyr Arg Arg
      225      230      235      240
Met Ile Pro Ser Leu Thr Val Lys Glu Thr Pro
      245      250

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<210> 8956

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 8956

```

Pro Leu Val Glu Ser Gly Ala Met Gln Phe Thr Pro Asp Ser Ala Trp
1      5      10      15
Lys Ile Ile Gly Phe Thr Arg Glu Ile Ser Pro Ala Tyr Arg Gln Lys
      20      25      30
Leu Leu Ser Leu Gly Met Leu Pro Gly Ser Ser Phe Gln Val Val Arg
      35      40      45
Val Ala Pro Leu Gly Asp Pro Val His Ile Glu Thr Arg Arg Val Asn
      50      55      60
Leu Val Leu Arg Lys Lys Asp Leu Ala Leu Ile Glu Val Glu Ser Leu
      65      70      75      80
Ser Arg

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<210> 8957

<211> 783

<212> PRT

<213> Enterobacter cloacae

<400> 8957

```

Gln Ala Ser Gly Phe Ser Glu Ser Ile Thr Met Lys Lys Leu Thr Ile
1      5      10      15
Gly Leu Ile Gly Asn Pro Asn Ser Gly Lys Thr Thr Leu Phe Asn Gln
      20      25      30
Leu Thr Gly Ala Arg Gln Arg Val Gly Asn Trp Ala Gly Val Thr Val
      35      40      45
Glu Arg Lys Glu Gly Gln Phe Thr Thr Thr Asp Asn Gln Val Thr Leu
      50      55      60
Val Asp Leu Pro Gly Thr Tyr Ser Leu Thr Thr Ile Ser Ser Gln Thr
      65      70      75      80
Ser Leu Asp Glu Gln Ile Ala Cys His Tyr Ile Leu Ser Gly Asp Ala
      85      90      95
Asp Leu Leu Ile Asn Val Val Asp Ala Ser Asn Leu Glu Arg Asn Leu
      100      105      110
Tyr Leu Thr Leu Gln Leu Leu Glu Leu Gly Ile Pro Cys Ile Val Ala
      115      120      125
Leu Asn Met Leu Asp Ile Ala Glu Lys Gln Lys Leu Arg Ile Asp Val
      130      135      140
Asp Ala Leu Ser Ala Arg Leu Gly Cys Pro Val Pro Leu Val Ser
      145      150      155      160
Thr Arg Ala Arg Gly Ile Asp Ala Leu Lys Leu Ala Ile Asp Arg His
      165      170      175
Thr Gly Asn Ala Asp Val Glu Leu Val His Tyr Ala Gln Pro Leu Leu
      180      185      190
Arg Glu Ala Gly Gln Leu Ala Gln Glu Met Asp Asn Ser Met Pro Ala
      195      200      205
Arg Gln Arg Leu Trp Leu Gly Leu Gln Met Leu Glu Gly Asp Ile Tyr

```

210	215	220
Ser Arg Ala Tyr Ala	Gly Asp Ala Ala	Asp Lys Leu Gly Val Ala Gln
225	230	235
Ala Arg Leu Ser Asp	Glu Leu Asp Asp	Pro Ala Leu His Ile Ala Asp
245	250	255
Ala Arg Tyr Gln Ala	Ile Ala Ala Ile	Cys Asp Val Val Ser Asn Ala
260	265	270
Leu Thr Ala Glu Pro	Ser Arg Phe Thr	Ala Ala Val Asp Lys Ile Val
275	280	285
Leu Asn Arg Phe Leu	Gly Leu Pro Ile	Phe Leu Leu Val Met Tyr Val
290	295	300
Met Phe Leu Leu Ala	Ile Asn Ile Gly	Gly Ala Leu Gln Pro Ile Phe
305	310	315
Asp Gly Gly Ser Val	Ala Ile Phe Val	His Gly Ile Gln Trp Leu Gly
325	330	335
Tyr Thr Leu His Phe	Pro Glu Trp Leu	Thr Ile Phe Leu Ala Gln Gly
340	345	350
Ile Gly Gly Gly Ile	Asn Thr Val Leu	Pro Leu Val Pro Gln Ile Gly
355	360	365
Met Met Tyr Leu Phe	Leu Ser Phe Leu	Glu Asp Ser Gly Tyr Met Ala
370	375	380
Arg Ala Ala Phe Val	Met Asp Arg Leu	Met Gln Ala Leu Gly Leu Pro
385	390	395
Gly Lys Ser Phe Val	Pro Leu Ile Val	Gly Phe Gly Cys Asn Val Pro
405	410	415
Ser Val Met Gly Ala	Arg Thr Leu Asp	Ala Pro Arg Glu Arg Leu Met
420	425	430
Thr Ile Met Met Ala	Pro Phe Met Ser	Cys Gly Ala Arg Leu Ala Ile
435	440	445
Phe Ala Val Phe Ala	Ala Ala Phe Phe	Gly Gln Glu Gly Ala Leu Ala
450	455	460
Val Phe Ser Leu Tyr	Val Leu Gly Ile	Val Met Ala Ile Leu Thr Gly
465	470	475
Leu Met Leu Lys His	Thr Ile Met Arg	Gly Glu Ala Ser Pro Phe Val
485	490	495
Met Glu Leu Pro Val	Tyr His Val Pro	His Leu Lys Ser Leu Ile Ile
500	505	510
Gln Thr Trp Gln Arg	Leu Lys Gly Phe	Val Leu Arg Ala Gly Lys Val
515	520	525
Ile Val Val Val Ser	Ile Phe Leu Ser	Ala Leu Asn Ser Phe Thr Leu
530	535	540
Ser Gly Gln Ala Ala	Asp Asn Ile Asn	Asp Ser Ala Leu Ala Ser Val
545	550	555
Ser Arg Ile Ile Thr	Pro Val Phe Lys	Pro Ile Gly Val Gln Glu Asp
565	570	575
Asn Trp Gln Ala Thr	Val Gly Leu Phe	Thr Gly Ala Met Ala Lys Glu
580	585	590
Val Val Val Gly Thr	Leu Asn Thr Leu	Tyr Thr Ala Glu Asn Ile Gln
595	600	605
Glu Glu Glu Phe Asn	Pro Ala Ala Phe	Asn Leu Gly Asp Glu Leu Leu
610	615	620
Gly Ala Val Glu Glu	Thr Trp Gln Ser	Leu Lys Asp Thr Phe Ser Leu
625	630	635
Ser Val Leu Ala Asn	Pro Ile Glu Ala	Ser Lys Gly Asp Gly Glu Met
645	650	655
Ala Thr Gly Ala Met	Gly Val Met Gly	Gln Lys Phe Gly Ser Ala Ser
660	665	670
Ala Ala Tyr Ser Tyr	Leu Ile Phe Val	Leu Leu Tyr Ile Pro Cys Ile
675	680	685
Ser Val Met Gly Ala	Ile Ala Arg Glu	Ser Ser Arg Gly Trp Met Gly
690	695	700

Phe Ser Ile Leu Trp Gly Leu Asn Ile Ala Tyr Ser Leu Ala Thr Val
 705 710 715 720
 Phe Tyr Gln Ala Val Asn Tyr Ser Gln His Pro Arg Tyr Ser Leu Val
 725 730 735
 Cys Ile Leu Ala Val Ile Leu Phe Asn Val Met Val Ile Gly Leu Leu
 740 745 750
 Arg Arg Ala Arg Ser Arg Val Asp Ile Asn Leu Leu Ala Thr Arg Lys
 755 760 765
 Thr Pro Thr Thr Cys Cys Asn Ser Pro Ala Gly Asp Cys His
 770 775 780

<210> 8958

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 8958

Ala Lys Ala Met Ile Arg Ile Ser Asp Ser Ala Gln Ala His Phe Ala
 1 5 10 15
 Lys Leu Leu Ala Asn Gln Glu Glu Gly Thr Gln Ile Arg Val Phe Val
 20 25 30
 Ile Asn Pro Gly Thr Pro Asn Ala Glu Cys Gly Val Ser Tyr Cys Pro
 35 40 45
 Pro Asp Ala Val Glu Ala Thr Asp Thr Ala Leu Lys Phe Glu Gln Leu
 50 55 60
 Thr Ala Tyr Val Asp Glu Leu Ser Ala Pro Tyr Leu Glu Asp Ala Glu
 65 70 75 80
 Ile Asp Phe Val Thr Asp Gln Leu Gly Ser Gln Leu Thr Leu Lys Ala
 85 90 95
 Pro Asn Ala Lys Met Arg Lys Val Ser Asp Asp Ala Pro Leu Met Glu
 100 105 110
 Arg Val Glu Tyr Leu Leu Gln Ser Gln Ile Asn Pro Gln Leu Ala Gly
 115 120 125
 His Gly Gly Arg Val Ser Leu Met Glu Ile Thr Glu Asp Gly Leu Ala
 130 135 140
 Ile Leu Gln Phe Gly Gly Gly Cys Asn Gly Cys Ser Met Val Asp Val
 145 150 155 160
 Thr Leu Lys Glu Gly Ile Glu Lys Gln Leu Leu Asn Glu Phe Pro Glu
 165 170 175
 Leu Lys Gly Val Arg Asp Leu Thr Glu His Gln Arg Gly Glu His Ser
 180 185 190
 Tyr Tyr
 195

<210> 8959

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 8959

Phe Ser Arg Trp Ser Pro Arg Ile Phe Trp Arg Ala Ala Leu Ser Gly
 1 5 10 15
 Thr Gly Tyr Met Pro Ala Leu Val Trp Ser Met Ser Arg Ser Leu Phe
 20 25 30
 Ser Pro Ser Ala Ala Ser Ser Arg Cys Trp Ala Lys Lys Arg Arg Leu
 35 40 45
 His Pro Ser Arg Leu Arg Lys Lys Asn Gly Val Ser Ala Tyr Cys Ser
 50 55 60
 Ser Pro Ser Pro Arg Cys Val Thr Ser Ser Ala Ser Trp Ala Leu Ser
 65 70 75 80
 Pro Trp Val Pro Glu Tyr Ala Lys Gly Leu Gly Met Ser Leu Asn Asp

5					90					95				
Ala	Gly	Lys	Leu	Val	Ser	Asp	Phe	Trp	Met	Ser	Tyr	Met	Phe	Gly
100					105					110				
Trp	Ala	Phe	Ser	Phe	Ile	Leu	Arg	Phe	Phe	Asp	Leu	Gln	Arg	Ile
115					120					125				
Thr	Val	Leu	Ala	Gly	Leu	Ala	Thr	Val	Leu	Met	Tyr	Leu	Phe	Ile
130					135					140				
Gly	Ser	Pro	Glu	His	Met	Pro	Trp	Phe	Ile	Leu	Thr	Leu	Gly	Phe
145					150					155				
Ser	Ser	Ala	Ile	Tyr	Thr	Ser	Ile	Ile	Thr	Leu	Gly	Ser	Leu	Gln
165					170					175				
Lys	Val	Ala	Ser	Pro	Lys	Leu	Val	Asn	Phe	Val	Leu	Thr	Cys	Gly
180					185					190				
Ile	Gly	Thr	Met	Leu	Thr	Phe	Val	Val	Thr	Gly	Pro	Ile	Val	Ala
195					200					205				
Ser	Gly	Pro	Leu	Ala	Ala	Leu	His	Thr	Ala	Asn	Gly	Leu	Tyr	Ala
210					215					220				
Val	Phe	Ile	Met	Cys	Phe	Val	Leu	Gly	Phe	Val	Thr	Arg	His	Arg
225					230					235				
His	Asn	Pro	Ser	Thr	Ala	Thr	His							
245					240									

<210> 8960

<211> 823

<212> PRT

<213> Enterobacter cloacae

<400> 8960

Ala	Asp	Ala	Glu	Gln	Phe	Asp	Ile	Thr	Val	Phe	Cys	Glu	Glu	Pro	Arg
1			5						10					15	
Lys	Ala	Tyr	Asp	Arg	Val	His	Leu	Ser	Ser	Tyr	Phe	Ser	His	His	Thr
			20					25					30		
Ala	Glu	Glu	Leu	Ser	Leu	Val	Arg	Glu	Gly	Phe	Tyr	Glu	Lys	His	Gly
		35					40					45			
Val	Lys	Val	Leu	Val	Gly	Glu	Arg	Ala	Ile	Thr	Ile	Asn	Arg	Gln	Glu
	50				55						60				
Lys	Val	Ile	His	Ser	Ser	Ala	Gly	Arg	Thr	Val	Phe	Thr	Asp	Lys	Leu
65				70						75				80	
Ile	Met	Ala	Thr	Gly	Ser	Tyr	Pro	Trp	Ile	Pro	Pro	Ile	Lys	Gly	Ser
			85						90					95	
Glu	Thr	Gln	Asp	Cys	Phe	Val	Tyr	Arg	Thr	Ile	Glu	Asp	Leu	Asn	Ala
		100						105					110		
Ile	Glu	Ser	Cys	Ala	Arg	Arg	Ser	Lys	Arg	Gly	Ala	Val	Val	Gly	Gly
	115						120					125			
Gly	Leu	Leu	Gly	Leu	Glu	Ala	Ala	Gly	Ala	Leu	Lys	Asn	Leu	Gly	Val
	130				135					140					
Glu	Thr	His	Val	Ile	Glu	Phe	Ala	Pro	Met	Leu	Met	Ala	Glu	Gln	Leu
145				150						155				160	
Asp	His	Met	Gly	Gly	Asp	Gln	Leu	Arg	Arg	Lys	Ile	Glu	Ser	Met	Gly
			165						170					175	
Val	Lys	Val	His	Thr	Ser	Lys	Asn	Thr	Lys	Glu	Ile	Val	Gln	Glu	Gly
			180					185					190		
Thr	Glu	Ala	Arg	Lys	Thr	Met	Arg	Phe	Ala	Asp	Gly	Ser	Glu	Leu	Glu
	195					200						205			
Val	Asp	Phe	Ile	Val	Phe	Ser	Thr	Gly	Ile	Arg	Pro	Arg	Asp	Lys	Leu
	210					215					220				
Ala	Thr	Gln	Cys	Gly	Leu	Ala	Val	Ala	Gln	Arg	Gly	Gly	Ile	Met	Ile
225				230						235				240	
Asn	Asp	Thr	Cys	Gln	Thr	Ser	Asp	Pro	Asp	Ile	Tyr	Ala	Ile	Gly	Glu
			245						250				255		
Cys	Ala	Ser	Trp	Asn	Asn	Arg	Val	Phe	Gly	Leu	Val	Ala	Pro	Gly	Tyr

260 265 270
 Lys Met Ala Gln Val Ala Val Asp His Ile Leu Gly Ser Glu Asn Ala
 275 280 285
 Phe Thr Gly Ala Asp Met Ser Ala Lys Leu Lys Leu Leu Gly Val Asp
 290 295 300
 Val Gly Gly Ile Gly Asp Ala His Gly Arg Thr Pro Asn Ser Arg Ser
 305 310 315 320
 Tyr Val Tyr Leu Asp Glu Ser Lys Glu Val Tyr Lys Arg Leu Ile Val
 325 330 335
 Ser Gln Asp Asn Lys Thr Leu Leu Gly Ala Val Leu Val Gly Asp Thr
 340 345 350
 Ser Asp Phe Gly Asn Leu Leu Gln Leu Val Leu Asn Ala Ile Glu Leu
 355 360 365
 Pro Glu Asn Pro Asp Ala Leu Ile Leu Pro Ala His Ala Ser Ser Gly
 370 375 380
 Lys Pro Ser Ile Gly Val Asp Lys Leu Pro Asp Ser Ala Gln Ile Cys
 385 390 395 400
 Ser Cys Phe Asp Val Thr Lys Gly Met Leu Ile Ser Ala Ile Asn Lys
 405 410 415
 Gly Cys His Thr Val Ala Ala Leu Lys Ala Glu Thr Lys Ala Gly Thr
 420 425 430
 Gly Cys Gly Gly Cys Ile Pro Leu Val Thr Gln Val Leu Asn Ala Glu
 435 440 445
 Leu Ala Lys Gln Gly Ile Glu Val Asn Asn Asn Leu Cys Glu His Phe
 450 455 460
 Ala Tyr Ser Arg Gln Glu Leu Tyr His Leu Ile Arg Val Glu Gly Ile
 465 470 475 480
 Lys Ser Phe Asp Glu Leu Leu Glu Lys His Gly Gln Gly Tyr Gly Cys
 485 490 495
 Glu Val Cys Lys Pro Thr Val Gly Ser Leu Leu Ala Ser Cys Trp Asn
 500 505 510
 Glu Tyr Val Leu Lys Pro Glu His Thr Pro Leu Gln Asp Thr Asn Asp
 515 520 525
 Asn Phe Leu Ala Asn Ile Gln Lys Asp Gly Thr Tyr Ser Val Ile Pro
 530 535 540
 Arg Ser Ala Gly Gly Glu Ile Thr Pro Glu Gly Leu Val Ala Val Gly
 545 550 555 560
 Arg Ile Ala Arg Glu Phe Asn Leu Tyr Thr Lys Ile Thr Gly Ser Gln
 565 570 575
 Arg Ile Gly Leu Phe Gly Ala Gln Lys Asp Asp Leu Pro Glu Ile Trp
 580 585 590
 Arg Gln Leu Ile Glu Ala Gly Phe Glu Thr Gly His Ala Tyr Ala Lys
 595 600 605
 Ala Leu Arg Met Ala Lys Thr Cys Val Gly Ser Thr Trp Cys Arg Tyr
 610 615 620
 Gly Val Gly Asp Ser Val Gly Phe Gly Val Glu Leu Glu Asn Arg Tyr
 625 630 635 640
 Lys Gly Ile Arg Thr Pro His Lys Met Lys Phe Gly Val Ser Gly Cys
 645 650 655
 Thr Arg Glu Cys Ala Glu Ala Gln Gly Lys Asp Val Gly Ile Ile Ala
 660 665 670
 Thr Glu Lys Gly Trp Asn Leu Tyr Val Cys Gly Asn Gly Gly Met Lys
 675 680 685
 Pro Arg His Ala Asp Leu Leu Ala Ala Asp Leu Asp Arg Asp Thr Leu
 690 695 700
 Ile Lys Tyr Leu Asp Arg Phe Met Met Phe Tyr Ile Arg Thr Ala Asp
 705 710 715 720
 Lys Leu Thr Arg Thr Ala Ser Trp Leu Asp Asn Leu Glu Gly Gly Ile
 725 730 735
 Asp Tyr Leu Lys Ser Val Ile Ile Asp Asp Lys Leu Gly Leu Asn Glu
 740 745 750

Gln Leu Glu Ser Glu Met Thr Arg Leu Arg Glu Ala Val Ile Cys Glu
 755 760 765
 Trp Thr Glu Thr Val Asn Thr Pro Ala Ala Gln Thr Arg Phe Lys His
 770 775 780
 Phe Ile Asn Ser Thr Gln Arg Asp Pro Asn Val Gln Val Val Pro Glu
 785 790 795 800
 Arg Glu Gln His Arg Pro Ala Thr Pro Tyr Glu Arg Ile Pro Val Met
 805 810 815
 Leu Val Glu Glu Asn Ala
 820

<210> 8961
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 8961
 Gln Gln Gly Met His Met Phe Lys Leu Ala Lys Ala Ala Val Leu Val Gly
 1 5 10 15
 Leu Leu Thr Thr Leu Thr Ala Cys Thr Gly His Val Gln Asn Thr Lys
 20 25 30
 Asn Asn Cys Ser Tyr Asp Tyr Leu Leu His Pro Ala Ile Ser Ile Ser
 35 40 45
 Lys Ile Ile Gly Gly Cys Gly Pro Ala Ala Gln Gln
 50 55 60

<210> 8962
 <211> 875
 <212> PRT
 <213> Enterobacter cloacae

<400> 8962
 Ile Arg Leu Ala Phe Ile Leu Pro Arg Asp Cys Leu Glu Thr Ala Gln
 1 5 10 15
 Ala Lys Pro Asn Gly Lys Ser Pro Val Lys Phe Val Lys Tyr Leu Leu
 20 25 30
 Ile Leu Ala Val Cys Cys Ile Leu Leu Gly Ala Gly Ser Ile Ile Gly
 35 40 45
 Leu Tyr Lys Tyr Val Glu Pro Gln Leu Pro Asp Val Ala Thr Leu Arg
 50 55 60
 Asp Val Arg Leu Gln Ile Pro Met Gln Val Tyr Ser Ala Asp Gly Glu
 65 70 75 80
 Leu Met Ala Gln Tyr Gly Glu Lys Arg Arg Ile Pro Leu Thr Leu Asn
 85 90 95
 Gln Ile Pro Pro Val Met Val Lys Ala Phe Ile Ala Thr Glu Asp Ser
 100 105 110
 Arg Phe Tyr Glu His His Gly Val Asp Pro Val Gly Ile Phe Arg Ala
 115 120 125
 Ala Ser Val Ala Leu Phe Ser Gly His Ala Ser Gln Gly Ala Ser Thr
 130 135 140
 Ile Thr Gln Gln Leu Ala Arg Asn Phe Phe Leu Ser Pro Glu Lys Thr
 145 150 155 160
 Leu Met Arg Lys Ile Lys Glu Val Phe Leu Ala Ile Arg Ile Glu Gln
 165 170 175
 Leu Leu Ser Lys Asp Glu Ile Leu Glu Leu Tyr Leu Asn Lys Ile Tyr
 180 185 190
 Leu Gly Tyr Arg Ala Tyr Gly Val Gly Ala Ala Ala Gln Val Tyr Phe
 195 200 205
 Gly Lys Pro Ile Asp Gln Leu Thr Leu Ser Glu Met Ala Thr Ile Ala
 210 215 220
 Gly Leu Pro Lys Ala Pro Ser Thr Phe Asn Pro Leu Tyr Ser Gln Asp

Arg	Ala	Thr	Ala	Arg	Arg	Asn	Val	Val	Leu	Ser	Arg	Met	Leu	Ser	Glu
Gly	Tyr	Ile	Ser	Gln	Ser	Glu	Tyr	Asp	Lys	Ala	Arg	Ser	Asp	Val	Ile
Asp	Ala	Asn	Tyr	His	Ala	Pro	Glu	Ile	Ala	Phe	Ser	Ala	Pro	Tyr	Leu
Thr	Glu	Met	Val	Arg	Gln	Glu	Met	Val	Ser	Arg	Tyr	Gly	Asp	Lys	Ala
Tyr	Glu	Asp	Gly	Tyr	Arg	Val	Tyr	Thr	Thr	Val	Thr	Arg	Lys	Val	Gln
Gln	Ala	Ala	Gln	Gln	Ala	Val	Arg	Asn	Asn	Val	Met	Asp	Tyr	Asp	Met
Arg	His	Gly	Tyr	Arg	Gly	Pro	Ser	Asn	Val	Leu	Lys	Lys	Val	Gly	Glu
Gly	Ala	Trp	Asp	Ser	Lys	Lys	Ile	Thr	Asp	Ser	Leu	Lys	Ala	Leu	Pro
Thr	Tyr	Gly	Pro	Leu	Arg	Pro	Ala	Val	Val	Thr	Gln	Ala	Asp	Pro	Gln
Glu	Ala	Val	Ala	Met	Met	Ala	Asp	Gly	Thr	Ser	Val	Ser	Leu	Arg	Met
Glu	Gly	Val	Arg	Trp	Ala	Arg	Pro	Tyr	Arg	Ser	Asp	Thr	Leu	Gln	Gly
Pro	Thr	Pro	Arg	Lys	Val	Thr	Asp	Val	Val	Gln	Thr	Gly	Gln	Gln	Ile
Trp	Val	Arg	Gln	Val	Gly	Asp	Ala	Trp	Trp	Leu	Ala	Gln	Val	Pro	Asp
Val	Asn	Ser	Ala	Leu	Val	Ser	Ile	Asn	Pro	Gln	Asn	Gly	Ala	Val	Met
Ala	Leu	Val	Gly	Gly	Phe	Asp	Phe	Asn	Gln	Ser	Lys	Phe	Asn	Arg	Ala
Thr	Gln	Ala	Leu	Arg	Gln	Val	Gly	Ser	Asn	Ile	Lys	Pro	Phe	Leu	Tyr
Thr	Ala	Ala	Met	Asp	Lys	Gly	Leu	Thr	Leu	Ala	Ser	Ile	Leu	Asn	Asp
Val	Pro	Ile	Ser	Arg	Trp	Asp	Ala	Gly	Ala	Gly	Ser	Asp	Trp	Gln	Pro
Lys	Asn	Ser	Pro	Ala	Gln	Tyr	Ala	Gly	Pro	Ile	Arg	Leu	Arg	Gln	Gly
Leu	Gly	Gln	Ser	Lys	Asn	Val	Val	Met	Val	Arg	Ala	Met	Arg	Ala	Met
Gly	Val	Asp	Tyr	Ala	Ala	Glu	Tyr	Leu	Gln	Arg	Phe	Gly	Phe	Pro	Ala
Gln	Asn	Ile	Val	His	Thr	Glu	Ser	Leu	Ala	Leu	Gly	Ser	Ala	Ser	Phe
Thr	Pro	Leu	Gln	Val	Ala	Arg	Gly	Tyr	Ser	Val	Met	Ala	Asn	Gly	Gly
Phe	Leu	Val	Asp	Pro	Tyr	Phe	Ile	Ser	Asn	Ile	Glu	Asn	Asp	Gln	Gly
Gly	Val	Leu	Phe	Glu	Ala	Lys	Pro	Lys	Ile	Ala	Cys	Pro	Glu	Cys	Asp
Ile	Pro	Val	Ile	Tyr	Gly	Asp	Thr	Pro	Lys	Ser	Asn	Val	Leu	Glu	Asn
Lys	Asp	Met	Glu	Asp	Val	Ala	Ile	Ser	Gln	Glu	Arg	Gln	Asn	Leu	Ala
Val	Pro	Gln	Pro	Gln	Leu	Glu	Gln	Ala	Asn	Gln	Ala	Leu	Val	Ala	Gln
Ser	Gly	Val	Gln	Glu	Tyr	Ala	Pro	His	Val	Ile	Ser	Thr	Pro	Leu	Ser
Phe	Leu	Ile	Lys	Ser	Ala	Leu	Asn	Thr	Asn	Ile	Phe	Gly	Glu	Pro	Gly

Trp Gln Gly Thr Gly Trp Arg Ala Gly Arg Asp Leu Gln Arg His Asp
 725 730 735
 Ile Gly Gly Lys Thr Gly Thr Thr Asn Ser Ser Lys Asp Ala Trp Phe
 740 745 750
 Ser Gly Tyr Gly Pro Gly Val Val Thr Ser Val Trp Ile Gly Phe Asp
 755 760 765
 Asp His Arg Arg Thr Leu Gly Arg Thr Thr Ala Ser Gly Ala Ile Lys
 770 775 780
 Asp Gln Ile Ser Gly Tyr Glu Gly Gly Ala Lys Ser Ala Gln Pro Ala
 785 790 795 800
 Trp Asp Ala Tyr Met Lys Ala Ala Leu Glu Gly Val Pro Glu Gln Pro
 805 810 815
 Leu Thr Pro Pro Gly Ile Val Thr Ile Asn Ile Asp Arg Ser Thr
 820 825 830
 Gly Gln Leu Ala Asn Gly Gly Asn Ser Arg Ala Glu Tyr Phe Ile Glu
 835 840 845
 Gly Thr Gln Pro Thr Thr Gln Ala Val His Glu Val Gly Thr Glu Ile
 850 855 860
 Ile Asp Asn Gly Glu Thr His Glu Leu Phe
 865 870 875

<210> 8963

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 8963

Leu Ala Cys Cys Ala Gly Arg Val Ala Ala Leu Thr Leu Thr Cys Trp
 1 5 10 15
 Gln Arg Ala Lys Pro Gln Arg Pro Ala Val Thr Ala Gln Gln Ala Thr
 20 25 30
 Val Thr Glu Gly Lys Lys Met Ala Ser Leu Ile Gln Val Arg Asp Leu
 35 40 45
 Leu Ala Leu Gln Gly Arg Met Glu Ala Lys Gln Leu Ser Leu Ser Leu
 50 55 60
 His Thr Pro Gln Pro Met Ile Asp Ala Met Leu Glu Arg Leu Glu Ala
 65 70 75 80
 Met Gly Lys Ala Val Arg Ile Gln Glu Glu Pro Asp Gly Cys Leu Ser
 85 90 95
 Gly Ser Cys Lys Ser Cys Pro Glu Gly Lys Ala Cys Leu Arg Glu Trp
 100 105 110
 Trp Thr Leu Arg
 115

<210> 8964

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 8964

Gly Asn Val Val Asp His Leu Pro Ile Phe Cys Gln Leu Arg Asn Arg
 1 5 10 15
 Asp Cys Leu Leu Val Gly Gly Gly Asp Val Ala Glu Arg Lys Ala Arg
 20 25 30
 Leu Leu Leu Glu Ala Gly Ala Arg Leu Thr Val Asn Ala Leu Thr Phe
 35 40 45
 Ala Pro Gln Phe Asp Val Trp Ala Gln Glu Gly Met Leu Thr Gln Val
 50 55 60
 Gln Gly Glu Phe Asp Glu Ser Leu Leu Asp Thr Cys Trp Leu Thr Ile
 65 70 75 80
 Ala Ala Thr Asp Asn Asp Asp Val Asn Gln Arg Val Ser Asp Ala Cys

85 90 95
 Glu Ala Arg Arg Ile Phe Cys Asn Val Val Asp Ala Pro Lys Glu Ala
 100 105 110
 Ser Phe Ile Met Pro Ser Ile Ile Asp Arg Ser Pro Leu Met Ile Ala
 115 120 125
 Val Ser Ser Gly Gly Arg Ser Pro Val Leu Ala Arg Leu Leu Arg Glu
 130 135 140
 Lys Leu Glu Ala Val Leu Pro Gln His Leu Gly Gln Ile Ala Gln Tyr
 145 150 155 160
 Ala Gly Leu Leu Arg Ser Arg Val Lys Gln Thr Phe Ala Thr Val Gly
 165 170 175
 Glu Arg Arg Arg Phe Trp Glu Lys Phe Phe Val Asn Asp Arg Leu Ala
 180 185 190
 Gln Ser Leu Ala Asn Gln Asp Thr Lys Ala Val Glu Glu Thr Thr Glu
 195 200 205
 Gln Leu Leu Ser Glu Pro Leu Asp His Arg Gly Glu Val Val Leu Val
 210 215 220
 Gly Ala Gly Pro Gly Asp Ala Gly Leu Leu Thr Leu Lys Gly Leu Gln
 225 230 235 240
 Gln Ile Gln Gln Ala Asp Ile Val Val Tyr Asp Arg Leu Val Ser Asp
 245 250 255
 Asp Ile Met Asn Leu Val Arg Arg Asp Ala Asp Arg Val Phe Val Gly
 260 265 270
 Lys Arg Ala Gly Tyr His Cys Val Pro Gln Glu Glu Ile Asn Gln Ile
 275 280 285
 Leu Leu Arg Glu Ala Gln Lys Gly Lys Arg Val Val Arg Leu Lys Gly
 290 295 300
 Gly Asp Pro Phe Ile Phe Gly Arg Gly Gly Glu Glu Leu Glu Thr Leu
 305 310 315 320
 Cys Asn Ala Gly Ile Pro Phe Ser Val Val Pro Gly Ile Thr Ala Ala
 325 330 335
 Ser Gly Cys Ser Ala Tyr Ser Gly Ile Pro Leu Thr His Arg Asp Tyr
 340 345 350
 Ala Gln Ser Val Arg Leu Val Thr Gly His Leu Lys Thr Gly Ser Glu
 355 360 365
 Leu Asp Trp His Asn Leu Ala Ala Glu Lys Gln Thr Leu Val Phe Tyr
 370 375 380
 Met Gly Leu Asn Gln Ala Ala Thr Ile Gln Ala Lys Leu Leu Glu His
 385 390 395 400
 Gly Met Glu Ala Asp Met Pro Val Ala Leu Val Glu Asn Gly Thr Ala
 405 410 415
 Ile Thr Gln Arg Val Val Asp Gly Val Leu Thr Gln Leu Gly Glu Leu
 420 425 430
 Ala Gln Gln Val Glu Ser Pro Ala Leu Ile Val Val Gly Arg Val Val
 435 440 445
 Ala Leu Arg Glu Lys Leu Asn Trp Phe Ser Ser His
 450 455 460

<210> 8965

<211> 717

<212> PRT

<213> Enterobacter cloacae

<400> 8965

Asp Gly Glu Ser Met Ser Thr Ile Leu Ile Phe Leu Ala Ala Val Leu
 1 5 10 15
 Ala Cys Ala Ser Ile Ala Val Trp Val Phe Arg Arg Arg Val His Arg
 20 25 30
 Arg Tyr Arg Leu Pro Phe Leu Asn Ala Phe Ala Gly Ala Asn Thr Arg
 35 40 45
 Lys Leu Ser Pro Glu Glu Arg Ser Thr Val Glu Gln Tyr Leu Asp Thr

50	55	60
Leu Asn Arg Ser Arg	Leu Ser Pro Gly	Pro Thr Gly Ala Ser Thr Ala
65	70	75
Pro Val Ser Leu Asn	Leu Asn Ala Gln Ser	Asp Thr Val Leu Cys Val
	85	90
Thr Arg Ser Ile Thr	Arg Tyr Gly Ile Thr Thr	Asp Asp Pro Asn Lys
	100	105
Trp Arg Tyr Tyr Leu	Asp Ser Val Glu Val His	Leu Pro Phe Trp
	115	120
Glu Gln Tyr Ile Asn	Asp Glu Asn Ser Val Glu	Leu Ile His Thr Asp
130	135	140
Thr Leu Pro Leu Val	Ile Ser Leu Asn Gly His	Thr Leu Ser Glu Tyr
145	150	155
Val Gln Glu Ala Pro	Arg Phe Ala Leu Glu Arg	Ala Ser Gly Thr Gln
	165	170
Ala Ser Ile Arg Gly	Glu Glu Thr Glu Gln	Ile Glu Leu Leu Asn Ile
	180	185
Arg Gln Glu Thr His	Glu Glu Tyr Val Leu Ser	Arg Pro Asp Gly Ile
	195	200
Arg Glu Ala Val Leu	Ile Val Ala Ser Phe Leu	Leu Phe Phe Ile Cys
210	215	220
Leu Leu Thr Pro Asp	Val Phe Val Pro Trp Leu	Ala Gly Gly Ala Val
225	230	235
Leu Leu Leu Ala Ala	Gly Leu Trp Gly Ile Phe	Ala Pro Pro Ala Lys
	245	250
Thr Ser Leu Arg Glu	Ile His Cys Leu Arg Gly	Thr Pro Lys Arg Trp
	260	265
Gly Leu Phe Gly Glu	Asn Asp Gln Glu His Ile	Asn Asn Ile Ser Leu
	275	280
Gly Ile Ile Asp Leu	Ile Tyr Pro Arg His Trp	Gln Pro Trp Ile Ala
290	295	300
Gln Asp Leu Gly His	Lys Thr Asp Ile Asp Ile	Tyr Leu Asp Arg His
305	310	315
Val Val Arg Gln Gly	Arg Tyr Leu Ser Leu His	Asp Glu Val Lys Asn
	325	330
Phe Pro Leu Gln His	Trp Leu Arg Ser Ala Val	Ile Ala Gly Gly Ala
	340	345
Ala Leu Ile Phe Leu	Met Leu Leu Phe Val Pro	Leu Asp Met Pro
	355	360
Ile Lys Phe Thr Leu	Ser Trp Ile Lys Gly Ala	Gln Thr Val Glu Ala
370	375	380
Thr Ser Val Gln Gln	Leu Glu Glu Ala Gly Val	Arg Val Gly Asp Thr
385	390	395
Leu Arg Leu Lys Gly	Thr Gly Met Cys Asn Ile	His Ser Pro Gly Ala
	405	410
Trp Asn Thr Arg Gln	Asn Ser Pro Phe Ala Pro	Phe Asp Cys Ser Gln
	420	425
Ile Ile Trp Asn Asp	Ala Ser Pro Leu Pro Leu	Pro Glu Ser Asp Val
	435	440
Val Asn Lys Ala Thr	Ala Leu Thr Gln Thr Ile	Asn Arg Gln Leu His
450	455	460
Pro Lys Pro Asp Asp	Asp Ser Arg Val Ser Pro	Ala Leu Arg Ser Ala
465	470	475
Ile Gln Lys Ser Gly	Met Val Leu Leu Asp Asp	Phe Gly Glu Ile Val
	485	490
Leu Lys Thr Glu Asp	Leu Cys Ser Ala Gln	Asp Cys Ile Arg Leu
	500	505
Lys Asn Ala Leu Val	Asn Leu Gly Asn Ser Lys	Asp Trp Asp Ala Leu
515	520	525
Val Lys Arg Ala Glu	Ala Gly Arg Leu Asp Gly	Val Asn Val Leu Leu
530	535	540

Arg Pro Val Ser Ala Glu Ser Leu Asp Asn Leu Val Ala Thr Ser Thr
 545 550 555 560
 Ala Pro Phe Val Met Arg Glu Thr Thr Arg Ala Ala Gln Ala Leu Asn
 565 570 575
 Ser Pro Ala Pro Gly Gly Phe Val Ile Ala Ser Asp Glu Gly Ser Asp
 580 585 590
 Leu Val Asp Gln Pro Tyr Pro Gln Val Ser Leu Tyr Asp Tyr Pro Ala
 595 600 605
 Gln Glu Gln Trp Ser Glu Phe Gln Arg Leu Ala Gln Met Leu Met Gln
 610 615 620
 Thr Pro Phe Ser Ala Glu Gly Ile Val Thr Thr Leu Phe Thr Asp Ala
 625 630 635 640
 Asn Gly Thr Arg His Ile Gly Leu His Arg Met Pro Asp Ser Ala Gly
 645 650 655
 Leu Trp Arg Tyr Ile Gly Thr Ser Leu Leu Ile Ala Met Leu Ala
 660 665 670
 Cys Ile Val Trp Asn Gly Tyr Gln Ala Val Arg Arg Tyr Gln Arg Ser
 675 680 685
 Arg Thr Arg Leu Ala Glu Ile Gln Ala Tyr Tyr Glu Asn Cys Leu Asn
 690 695 700
 Pro Lys Leu Ile Ser Ser Ser Glu Ser Leu Ile Gly
 705 710 715

<210> 8966

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 8966

Lys Lys Leu Ser Ala Thr Ser Gly Ala Glu Arg Leu Ser Pro Asp Asp
 1 5 10 15
 Pro Leu Thr His Arg Glu Gly Asp Ala Met Lys Glu Lys Pro Ser Asp
 20 25 30
 Gly Val Arg Leu Asp Lys Trp Leu Trp Ala Ala Arg Phe Tyr Lys Thr
 35 40 45
 Arg Ala Leu Ala Arg Glu Met Val Asp Gly Gly Lys Val His Tyr Asn
 50 55 60
 Gly Gln Arg Ser Lys Pro Ser Lys Leu Val Glu Leu Asn Ala Thr Leu
 65 70 75 80
 Thr Leu Arg Gln Gly Asn Asp Glu Lys Thr Val Val Val Lys Ala Ile
 85 90 95
 Thr Glu Gln Arg Arg Pro Ala Thr Glu Ala Val Leu Leu Tyr Glu Glu
 100 105 110
 Thr Ala Glu Ser Ile Glu Lys Arg Glu Lys Thr Ala Leu Ala Arg Lys
 115 120 125
 Met Asn Ala Leu Thr Met Pro His Pro Asp Arg Arg Pro Asp Lys Lys
 130 135 140
 Glu Arg Arg Asp Leu Met Lys Phe Lys His Gly Glu Ser Glu
 145 150 155

<210> 8967

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 8967

Pro Ser Pro Ala Arg Glu Met Lys Met Ala Gln His Asp Gln Leu His
 1 5 10 15
 Arg Tyr Leu Phe Glu Gln Phe Ala Val Arg Gly Glu Leu Val Thr Val
 20 25 30
 Ser Glu Thr Trp Lys Lys Gln Ile Leu Glu Asn His Asn Tyr Pro Leu Pro

35 40 45
 Val Lys Thr Leu Leu Gly Glu Leu Val Ala Thr Ser Leu Leu Thr
 50 55 60
 Ala Thr Leu Lys Phe Ala Gly Asp Ile Thr Val Gln Leu Gln Gly Asp
 65 70 75 80
 Gly Pro Met Ser Leu Ala Val Ile Asn Gly Asn Asn Gln Gln Gln Met
 85 90 95
 Arg Gly Val Ala Arg Val Gln Gly Asp Ile Pro Glu Asn Ala Asp Leu
 100 105 110
 Lys Thr Leu Val Gly Asn Gly Tyr Leu Val Ile Thr Ile Ser Pro Glu
 115 120 125
 Glu Gly Glu Arg Tyr Gln Gly Val Val Gly Leu Glu Gly Asp Thr Leu
 130 135 140
 Ala Ala Cys Leu Glu Asp Tyr Phe Met Arg Ser Glu Gln Leu Pro Thr
 145 150 155 160
 Arg Leu Phe Ile Arg Thr Gly Glu Val Asp Gly Gln Pro Ala Ala Gly
 165 170 175
 Gly Met Leu Leu Gln Val Leu Pro Ala Gln Asp Ala Gln Thr Asn Asp
 180 185 190
 Phe Glu His Leu Ala Thr Leu Thr Glu Thr Ile Lys Ala Glu Glu Leu
 195 200 205
 Phe Thr Leu Ser Ala Thr Asp Val Leu Trp Arg Leu Tyr His Glu Glu
 210 215 220
 Glu Val Thr Val Tyr Asp Pro Gln Asp Val Glu Phe Lys Cys Thr Cys
 225 230 235 240
 Ser Arg Glu Arg Cys Ala Gly Ala Leu Lys Thr Leu Pro Asp Glu Glu
 245 250 255
 Ile Asp Ser Ile Met Ala Glu Asp Gly Glu Ile Asp Met His Cys Asp
 260 265 270
 Tyr Cys Gly Thr His Tyr Val Phe Asn Ser Met Asp Ile Ala Glu Ile
 275 280 285
 Arg Asn Asn Ala Ser Pro Ala Asp Pro Gln Val His
 290 295 300

<210> 8968

<211> 559

<212> PRT

<213> Enterobacter cloacae

<400> 8968

His Pro Gln Lys Asn Pro Thr Ile Ser Gly Ser Thr Tyr Trp Leu Arg
 1 5 10 15
 Ser Ser Asp Met Arg Val Asn Gly Leu Thr Pro Gln Asp Leu Lys Ala
 20 25 30
 Tyr Gly Ile His Asp Val Gln Glu Val Val Tyr Asn Pro Asp Tyr Asp
 35 40 45
 Thr Leu Tyr Gln Glu Glu Leu Asn Pro Ala Leu Glu Gly Tyr Glu Arg
 50 55 60
 Gly Val Leu Thr Asn Leu Gly Ala Ile Ala Val Asp Thr Gly Ile Phe
 65 70 75 80
 Thr Gly Arg Ser Pro Lys Asp Lys Tyr Ile Val Arg Asp Asp Thr Thr
 85 90 95
 Arg Asp Thr Leu Trp Trp Ala Asp Lys Gly Lys Asp Asn Asp Asn
 100 105 110
 Lys Pro Leu Ser Pro Glu Thr Trp Gln His Leu Lys Gly Leu Val Thr
 115 120 125
 His Gln Leu Ser Gly Lys Arg Leu Phe Ile Ile Asp Ala Phe Cys Gly
 130 135 140
 Ala Asn Ala Asp Thr Arg Leu Ser Val Arg Phe Ile Thr Glu Val Ala
 145 150 155 160
 Trp Gln Ala His Phe Val Lys Asn Met Phe Ile Arg Pro Thr Asp Glu

165 170 175
 Glu Leu Gln Asp Phe Thr Pro Asp Phe Ile Val Met Asn Gly Ala Lys
 180 185 190
 Cys Thr Asn Pro Gln Trp Lys Glu Gln Gly Leu Asn Ser Glu Asn Phe
 195 200 205
 Ile Ala Phe Asn Leu Thr Glu Arg Ile Gln Leu Ile Gly Gly Thr Trp
 210 215 220
 Tyr Gly Gly Glu Met Lys Lys Gly Met Phe Ser Val Met Asn Tyr Leu
 225 230 235 240
 Leu Pro Leu Arg Gly Ile Ala Ser Met His Cys Ser Ala Asn Val Gly
 245 250 255
 Glu Lys Gly Asp Val Ala Val Phe Phe Gly Leu Ser Gly Thr Gly Lys
 260 265 270
 Thr Thr Leu Ser Thr Asp Pro Lys Arg Arg Leu Ile Gly Asp Asp Glu
 275 280 285
 His Gly Trp Asp Asp Asp Gly Val Phe Asn Phe Glu Gly Cys Tyr
 290 295 300
 Ala Lys Thr Ile Arg Leu Ser Glu Glu Ala Glu Pro Asp Ile Tyr His
 305 310 315 320
 Ala Ile Arg Arg Asp Ala Leu Leu Glu Asn Val Thr Val Arg Ala Asp
 325 330 335
 Gly Ser Ile Asp Phe Asp Asp Ala Ser Lys Thr Glu Asn Thr Arg Val
 340 345 350
 Ser Tyr Pro Ile Tyr His Ile Glu Asn Ile Val Lys Pro Val Ser Lys
 355 360 365
 Ala Gly His Ala Thr Lys Val Ile Phe Leu Thr Ala Asp Ala Phe Gly
 370 375 380
 Val Leu Pro Pro Val Ser Arg Leu Thr Ala Ser Gln Thr Gln Tyr His
 385 390 395 400
 Phe Leu Ser Gly Phe Thr Ala Lys Leu Ala Gly Thr Glu Arg Gly Val
 405 410 415
 Thr Glu Pro Thr Pro Thr Phe Ser Ala Cys Phe Gly Ala Ala Phe Leu
 420 425 430
 Ser Leu His Pro Thr Gln Tyr Ala Glu Val Leu Val Lys Arg Met Gln
 435 440 445
 Ala Ser Gly Ala Gln Ala Tyr Leu Val Asn Thr Gly Trp Asn Gly Thr
 450 455 460
 Gly Lys Arg Ile Ser Ile Lys Asp Thr Arg Ala Ile Asp Ala Ile
 465 470 475 480
 Leu Asp Gly Ser Leu Asp Asn Ala Glu Thr Phe Thr Leu Pro Met Phe
 485 490 495
 Asp Leu Ala Ile Pro Thr Ala Leu Pro Gly Val Asp Thr Arg Ile Leu
 500 505 510
 Asp Pro Arg Asn Thr Tyr Gly Ser Pro Glu Gln Trp Arg Glu Lys Ala
 515 520 525
 Glu Ser Leu Ala Lys Leu Phe Ile Glu Asn Phe Glu Lys Tyr Thr Asp
 530 535 540
 Thr Pro Ala Gly Ala Ala Leu Val Ser Ala Gly Pro Lys Leu
 545 550 555

<210> 8969

<211> 267

<212> FRT

<213> Enterobacter cloacae

<400> 8969

Arg Ser Ile Thr Ala Cys Gly Gln Thr Asn Phe Ala Ala Arg Ser Ala
 1 5 10 15
 Phe Ala Ser Cys Phe Arg Ala Val Arg Asp Lys His Val Ala Gln Thr
 20 25 30
 Pro Asn Gly Leu Asn Ile Thr Arg Met Arg Arg Ile Phe Phe His His

35 40 45
 Ala Thr Gln Thr Arg Asp Leu His Val Asp Arg Thr Leu His Arg Gly
 50 55 60
 Val Phe Thr Thr Thr Arg Gln Val His Gln Leu Val Thr Gly Glu Arg
 65 70 75 80
 Leu Thr Arg Val Ala Asp Gln Arg Phe Gln His Arg Glu Leu Thr Ala
 85 90 95
 Gly Glu Arg His Trp Leu Ile Phe Thr Glu His Leu Thr Gly Ala Glu
 100 105 110
 Val Gln Leu Glu Leu Thr Glu Cys Asn Asp Gly Leu Phe Leu Arg Trp
 115 120 125
 Arg Ala Arg Gln Phe Val Arg Leu Thr Thr Gln His Gly Ala Asn Thr
 130 135 140
 Arg Gln Gln Phe Thr Arg Val Lys Arg Leu Trp Asn Val Val Ile Ser
 145 150 155 160
 Ala Asn Leu Lys Ala Asp Asn Thr Val Asp Phe Phe Thr Leu Arg Arg
 165 170 175
 His His Asp Asp Arg His Arg Val Ala Leu Ala Ala Gln Thr Ala Ala
 180 185 190
 Asn Arg Glu Pro Val Phe Ala Arg Gln His Gln Val Gln His His Gln
 195 200 205
 Val Glu Arg Phe Thr Arg Gln Gln Thr Ile His Leu Phe Arg Val Arg
 210 215 220
 Asp Ala Thr Asn Leu Glu Ala Leu Leu Gly Gln Ile Thr Phe Gln Gln
 225 230 235 240
 Arg Thr Gln Ala His Val Val Ile Tyr Asp Gln Asn Phe Val Val Leu
 245 250 255
 Leu His Cys Val Tyr Ser Gln Arg Phe Gly
 260 265

<210> 8970

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 8970

Lys Ser Ala Arg Val Arg Pro Ala Asn Ser Gly Ile Asn Ser Arg Arg
 1 5 10 15
 Asn Cys Tyr Lys Ala Tyr Leu Thr Ala Ala Tyr Leu Phe Ile Ser Ser
 20 25 30
 His Lys Ser Leu Leu Ile Leu Ser Val Thr Leu Cys Ala Thr Tyr Cys
 35 40 45
 Ala Gln Arg Gln Leu Thr Gly Ile Lys Gly Cys Thr Met Lys Thr Pro
 50 55 60
 Leu Ile Thr Arg Glu Gly Tyr Glu Lys Leu Lys Lys Glu Met Asp Tyr
 65 70 75 80
 Leu Trp Arg Glu Glu Arg Pro Glu Val Thr Lys Lys Val Thr Trp Ala
 85 90 95
 Ala Ser Leu Gly Asp Arg Ser Glu Asn Ala Asp Tyr Gln Tyr Asn Lys
 100 105 110
 Lys Arg Leu Arg Glu Ile Asp Arg Arg Val Arg Tyr Leu Thr Lys Cys
 115 120 125
 Leu Glu Asn Leu Lys Ile Val Asp Tyr Ser Pro Gln Gln Glu Gly Lys
 130 135 140
 Val Phe Phe Gly Ala Trp Val Glu Ile Glu Asn Asp Asn Gly Asp Thr
 145 150 155 160
 Leu Arg Phe Arg Ile Val Gly Tyr Asp Glu Ile Phe Gly Arg Lys Asp
 165 170 175
 Tyr Ile Ser Ile Asp Ser Pro Met Ala Arg Ala Leu Leu Lys Lys Glu
 180 185 190
 Val Gly Asp Leu Ala Val Val Gln Thr Pro Ala Gly Glu Ala Ser Trp

195 200 205
 Tyr Val Asn Glu Ile Val Tyr Val Lys
 210 215

<210> 8971
 <211> 806
 <212> PRT
 <213> Enterobacter cloacae

<400> 8971
 Ser Glu Ser Ala Leu Pro Gly Trp His Phe Leu Val Ser Ala Arg Ile
 1 5 10 15
 Thr Ile Pro Leu Ile Phe Asp Pro Gln Asp Glu Leu Thr Met Met Lys
 20 25 30
 Glu Ser Leu Cys Arg Ile Ile Ala Gly Glu Leu Gln Ala Arg Ala Glu
 35 40 45
 Gln Val Glu Ala Ala Val Arg Leu Leu Asp Glu Gly Asn Thr Val Pro
 50 55 60
 Phe Ile Ala Arg Tyr Arg Lys Glu Val Thr Gly Gly Leu Asp Asp Thr
 65 70 75 80
 Gln Leu Arg Asn Leu Glu Thr Arg Leu Gly Tyr Leu Arg Glu Leu Glu
 85 90 95
 Asp Arg Arg Gln Ala Ile Leu Lys Ser Ile Gly Glu Gln Gly Lys Leu
 100 105 110
 Thr Ser Asp Leu Glu Lys Ala Ile Asn Gly Thr Leu Ser Lys Thr Glu
 115 120 125
 Leu Glu Asp Leu Tyr Leu Pro Tyr Lys Pro Lys Arg Arg Thr Arg Gly
 130 135 140
 Gln Ile Ala Ile Glu Ala Gly Leu Glu Pro Leu Ala Asp Leu Leu Trp
 145 150 155 160
 Asn Glu Pro Ser His Asp Pro Glu Thr Glu Ala Ala Lys Phe Ile Asp
 165 170 175
 Ala Asp Lys Gly Val Ala Asp Thr Lys Ala Ala Leu Asp Gly Ala Arg
 180 185 190
 Tyr Ile Leu Met Glu Arg Phe Ala Glu Asp Ala Ala Leu Leu Ala Lys
 195 200 205
 Val Arg Asp Tyr Leu Trp Lys Asn Ala His Ile Val Ser Ser Val Val
 210 215 220
 Ser Gly Lys Glu Glu Glu Gly Ala Lys Phe Arg Asp Tyr Phe Asp His
 225 230 235 240
 His Glu Pro Ile Ser Thr Ala Pro Ser His Arg Ala Leu Ala Met Phe
 245 250 255
 Arg Gly Arg Asn Glu Gly Val Leu Gln Leu Ser Leu Asn Ala Asp Pro
 260 265 270
 Gln Phe Asp Glu Pro Pro Lys Glu Ser His Cys Glu Gln Ile Ile Met
 275 280 285
 Asp His Leu Gly Leu Arg Leu Asn Asn Ala Pro Ala Asp Ser Trp Arg
 290 295 300
 Lys Gly Val Val Ser Trp Thr Trp Arg Ile Lys Val Leu Met His Leu
 305 310 315 320
 Glu Thr Glu Leu Met Gly Thr Val Arg Glu Arg Ala Glu Asp Glu Ala
 325 330 335
 Ile Asn Val Phe Ala Arg Asn Leu His Asp Leu Leu Met Ala Ala Pro
 340 345 350
 Ala Gly Leu Arg Ala Thr Met Gly Leu Asp Pro Gly Leu Arg Thr Gly
 355 360 365
 Val Lys Val Ala Val Val Asp Gly Thr Gly Lys Leu Val Ala Thr Asp
 370 375 380
 Thr Ile Tyr Pro His Thr Gly Gln Ala Ala Lys Ala Ala Val Val Val
 385 390 395 400
 Ala Ala Leu Cys Glu Lys Tyr Asn Val Glu Leu Val Ala Ile Gly Asn

405 410 415
 Gly Thr Ala Ser Arg Glu Thr Glu Arg Phe Tyr Leu Asp Val Gln Lys
 420 425 430
 Gln Phe Pro Lys Val Thr Ala Gln Lys Val Ile Val Ser Glu Ala Gly
 435 440 445
 Ala Ser Val Tyr Ser Ala Ser Glu Leu Ala Ala Gln Glu Phe Pro Asp
 450 455 460
 Leu Asp Val Ser Leu Arg Gly Ala Val Ser Ile Ala Arg Arg Leu Gln
 465 470 475 480
 Asp Pro Leu Ala Glu Leu Val Lys Ile Asp Pro Lys Ser Ile Gly Val
 485 490 495
 Gly Gln Tyr Gln His Asp Val Ser Gln Thr Gln Leu Ala Arg Lys Leu
 500 505 510
 Asp Ala Val Val Glu Asp Cys Val Asn Ala Val Gly Val Asp Leu Asn
 515 520 525
 Thr Ala Ser Val Pro Leu Leu Thr Arg Val Ala Gly Leu Thr Arg Met
 530 535 540
 Met Ala Gln Asn Ile Val Ala Trp Arg Asp Glu Asn Gly Gln Phe Gln
 545 550 555 560
 Asn Arg Gln Gln Leu Leu Lys Val Ser Arg Leu Gly Pro Lys Ala Phe
 565 570 575
 Glu Gln Cys Ala Gly Phe Leu Arg Ile Asn His Gly Asp Asn Pro Leu
 580 585 590
 Asp Ala Ser Thr Val His Pro Glu Ala Tyr Pro Val Val Glu Arg Ile
 595 600 605
 Leu Ala Ala Thr Gln Gln Ala Leu Lys Asp Leu Met Gly Asp Ser Ser
 610 615 620
 Ala Leu Arg Asn Leu Lys Ala Val Asp Phe Thr Asp Glu Gln Phe Gly
 625 630 635 640
 Val Pro Thr Val Thr Asp Ile Ile Lys Glu Leu Glu Lys Pro Gly Arg
 645 650 655
 Asp Pro Arg Pro Glu Phe Lys Thr Ala Thr Phe Ala Asp Gly Val Glu
 660 665 670
 Thr Met Asn Asp Leu Leu Pro Gly Met Val Leu Glu Gly Ala Val Thr
 675 680 685
 Asn Val Thr Asn Phe Gly Ala Phe Val Asp Ile Gly Val His Gln Asp
 690 695 700
 Gly Leu Val His Ile Ser Ser Leu Ala Asp Lys Phe Val Glu Asp Pro
 705 710 715 720
 His Thr Val Val Lys Ala Gly Asp Ile Val Lys Val Lys Val Leu Glu
 725 730 735
 Val Asp Leu Gln Arg Lys Arg Ile Ala Leu Thr Met Arg Leu Asp Glu
 740 745 750
 Gln Pro Gly Asp Thr Asn Ala Arg Arg Gly Gly Asn Gly Gly Arg
 755 760 765
 Glu Gln Gln Arg Pro Ala Ala Lys Ala Ala Lys Pro Arg Gly Arg Asp
 770 775 780
 Ala Gln Pro Ala Gly Asn Ser Ala Met Met Asp Ala Leu Ala Ala Ala
 785 790 795 800
 Met Gly Lys Lys Arg
 805

<210> 8972

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 8972

Ile His Gln Val Tyr Arg Glu Leu Arg Gly Gln Phe Leu Thr Tyr Ala
 1 5 10 15
 Thr Pro His Phe Gly Val Gln Ser Pro Ser Val Gln Gln His Lys Met

20 25 30
 Thr Ile Ser Arg Pro Asn Gly Leu Pro Pro Gln Arg Leu His Gln Leu
 35 40 45
 Thr Phe Ser Phe Phe Thr Trp Arg Leu Arg Met Leu Thr Val Pro Gly
 50 55 60
 Leu Cys Trp Leu Cys Arg Met Pro Leu Ala Leu Ser Ala Trp Gly Val
 65 70 75 80
 Cys Ser Val Cys Thr Arg Ala Leu Gly Tyr Leu Lys Gly Cys Pro Gln
 85 90 95
 Cys Gly Leu Pro Ala Val Ser Gln Thr Leu Pro Cys Gly Arg Cys Leu
 100 105 110
 Lys Lys Ala Pro Pro Trp Ser Ala Leu Val Ala Val Asp Asp Tyr Val
 115 120 125
 Leu Pro Leu Ser Arg Leu Val His Gln Phe Lys Phe Ser Ser Gln Ile
 130 135 140
 Ala Leu Ala Gln Pro Leu Ala Arg Leu Leu Leu Ala Val Leu Gln
 145 150 155 160
 Ala Arg Arg Thr Arg Gly Leu Pro Pro Val Asp Thr Leu Val Asn Val
 165 170 175
 Pro Leu Phe Gln Arg Arg His Trp Arg Arg Gly Tyr Asn Gln Ser Asp
 180 185 190
 Leu Leu Cys Arg Pro Leu Ala Arg Trp Leu Gly Cys Arg Tyr Pro Ala
 195 200 205
 Ser Ala Leu Lys Arg Ile His Ala Thr Ala Val Gln His Arg Leu Asn
 210 215 220
 Ala Arg Ser Arg Lys Arg Asn Leu Lys Asn Ala Phe Arg Leu Glu Leu
 225 230 235 240
 Pro Val Asn Gly Leu His Ile Ala Ile Val Asp Asp Val Val Thr Thr
 245 250 255
 Gly Ser Thr Val Ala Glu Leu Ser Arg Leu Leu Leu Gln Ser Gly Ala
 260 265 270
 Ala Ser Val Gln Val Trp Cys Leu Cys Arg Thr Leu
 275 280 285

<210> 8973

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 8973

Asn Asn Asp Val Thr His Asn Asn Ser Lys Ala Arg Ser Ile Met Pro
 1 5 10 15
 Leu Phe Ile Val Ala Ile Gly Val Val Leu Leu Leu Leu Met Ile
 20 25 30
 Arg Phe Lys Met Asn Gly Phe Ile Ala Leu Val Leu Val Ala Leu Ala
 35 40 45
 Val Gly Leu Met Gln Gly Met Pro Leu Val Lys Val Ile Ser Ser Ile
 50 55 60
 Lys Ala Gly Val Gly Gly Thr Leu Gly Ser Leu Ala Leu Ile Met Gly
 65 70 75 80
 Phe Gly Ala Met Leu Gly Lys Met Leu Ala Asp Cys Gly Gly Ala Gln
 85 90 95
 Arg Ile Ala Thr Thr Leu Ile Asp Lys Phe Gly Lys Gln His Ile Gln
 100 105 110
 Trp Ala Val Val Leu Thr Gly Phe Thr Val Gly Phe Ala Leu Phe Tyr
 115 120 125
 Glu Val Gly Phe Val Leu Met Leu Pro Leu Val Phe Thr Ile Ala Ala
 130 135 140
 Ala Ala Asn Ile Pro Leu Leu Phe Val Gly Val Pro Met Ala Ala Ala
 145 150 155 160
 Leu Ser Val Thr His Gly Phe Leu Pro Pro His Pro Gly Pro Thr Ala

165 170 175
 Ile Ala Thr Ile Phe His Ala Asp Met Gly Lys Thr Leu Leu Phe Gly
 180 185 190
 Thr Ile Leu Ala Ile Pro Thr Val Ile Leu Ala Gly Pro Val Tyr Ala
 195 200 205
 Arg Phe Leu Lys Gly Ile Asp Lys Pro Ile Pro Glu Gly Leu Tyr Ser
 210 215 220
 Ala Lys Thr Phe Thr Glu Glu Asp Met Pro Gly Phe Gly Val Ser Val
 225 230 235 240
 Trp Thr Ser Leu Val Pro Val Ile Leu Met Ala Met Arg Ala Ile Ala
 245 250 255
 Glu Met Val Leu Pro Lys Gly His Ala Phe Leu Ser Val Ala Glu Phe
 260 265 270
 Leu Gly Asp Pro Val Met Ala Thr Leu Ile Ala Val Leu Ile Ala Met
 275 280 285
 Phe Thr Phe Gly Leu Asn Arg Gly Arg Ser Met Asp Gln Ile Asn Asp
 290 295 300
 Thr Leu Thr Ser Ser Ile Lys Ile Ile Ala Met Met Leu Leu Ile Ile
 305 310 315 320
 Gly Gly Gly Gly Ala Phe Lys Gln Val Leu Val Asp Ser Gly Val Asp
 325 330 335
 Lys Tyr Ile Ala Ala Met Met His Glu Thr Asn Val Ser Pro Leu Leu
 340 345 350
 Met Ala Trp Ser Ile Ala Ala Val Leu Arg Ile Ala Leu Gly Ser Ala
 355 360 365
 Thr Val Ala Ala Ile Thr Ala Gly Gly Ile Val Ala Pro Leu Ile Ala
 370 375 380
 Thr Thr Gly Val Ser Pro Glu Leu Met Val Ile Ala Val Gly Ser Gly
 385 390 395 400

<210> 8974

<211> 450

<212> PRT

<213> *Enterobacter cloacae*

<400> 8974

Ser Met Arg Arg Met Arg Phe Ser Pro Arg Ser Ser Phe Ala Arg Thr
 1 5 10 15
 Leu Leu Leu Ile Val Thr Leu Leu Phe Val Ser Leu Val Thr Thr Tyr
 20 25 30
 Leu Val Val Leu Asn Phe Ala Ile Leu Pro Ser Leu Gln Gln Phe Asn
 35 40 45
 Lys Val Leu Ala Tyr Glu Val Arg Met Leu Met Thr Asp Lys Leu Gln
 50 55 60
 Leu Glu Asp Gly Thr Gln Leu Val Val Pro Pro Ala Phe Arg Arg Glu
 65 70 75 80
 Ile Tyr Arg Glu Leu Gly Ile Ser Leu Tyr Ser Asn Glu Ala Ala Glu
 85 90 95
 Asp Ala Gly Leu Arg Trp Ala Gln His Tyr Glu Phe Leu Ser Gln Gln
 100 105 110
 Met Ala Gln Gln Leu Gly Gly Pro Thr Glu Val Arg Val Glu Val Asn
 115 120 125
 Lys Ser Ser Pro Val Val Trp Leu Lys Thr Trp Leu Ser Pro Asn Ile
 130 135 140
 Trp Val Arg Val Pro Leu Thr Glu Ile His Gln Gly Asp Phe Ser Pro
 145 150 155 160
 Leu Phe Arg Tyr Thr Leu Ala Ile Met Leu Leu Ala Ile Gly Gly Ala
 165 170 175
 Trp Leu Phe Ile Arg Ile Gln Asn Arg Pro Leu Val Asp Leu Glu His
 180 185 190
 Ala Ala Leu Gln Val Gly Lys Gly Ile Ile Pro Pro Pro Leu Arg Glu

195 200 205
 Tyr Gly Ala Ser Glu Val Arg Ser Val Thr Arg Ala Phe Asn His Met
 210 215 220
 Ala Ala Gly Val Lys Gln Leu Ala Asp Asp Arg Thr Leu Leu Met Ala
 225 230 235 240
 Gly Val Ser His Asp Leu Arg Thr Pro Leu Thr Arg Ile Arg Leu Ala
 245 250 255
 Thr Glu Met Met Gly Glu Gln Asp Gly Tyr Leu Ala Glu Ser Ile Asn
 260 265 270
 Lys Asp Ile Glu Glu Cys Asn Ala Ile Ile Glu Gln Phe Ile Asp Tyr
 275 280 285
 Leu Arg Thr Gly Gln Glu Met Pro Met Glu Met Ala Asp Leu Asn Ala
 290 295 300
 Val Leu Gly Glu Val Val Ala Ala Glu Ser Gly Tyr Glu Arg Glu Ile
 305 310 315 320
 Ala Thr Asp Leu Gln Ala Gly Glu Ile Gln Val Arg Met His Pro Leu
 325 330 335
 Ser Ile Lys Arg Ala Val Ala Asn Met Val Val Asn Ala Ala Arg Tyr
 340 345 350
 Gly Asn Gly Trp Ile Lys Val Ser Ser Gly Thr Glu Leu Asn Arg Ala
 355 360 365
 Trp Phe Gln Val Glu Asp Asp Gly Pro Gly Ile Lys Pro Glu Gln Arg
 370 375 380
 Lys His Leu Phe Gln Pro Phe Val Arg Gly Asp Ser Ala Arg Ser Thr
 385 390 395 400
 Ser Gly Thr Gly Leu Gly Leu Ala Ile Val Gln Arg Ile Val Asp Asn
 405 410 415
 His Asn Gly Leu Leu Glu Ile Gly Thr Ser Glu Arg Gly Gly Leu Ser
 420 425 430
 Ile Arg Ala Trp Leu Pro Val Pro Val Leu Arg Gly Gln Val Lys Glu
 435 440 445
 Ser
 450

<210> 8975

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 8975

Pro Leu Met Ser Ala Ile Cys Ala Ser Arg Ser Asp Gly His Gly Asn
 1 5 10 15
 Glu Lys Glu Arg Lys Lys Val Lys Ile Arg Ile Gly Leu Leu Leu Ala
 20 25 30
 Val Leu Ser Gln Pro Leu Trp Ala Ala Thr Pro Lys Pro Val Thr Leu
 35 40 45
 Leu Val Asp Asp Val Pro Val Val Gln Ile Leu Gln Ala Leu Val Ala
 50 55 60
 Gln Glu Asp Arg Asn Leu Val Val Ser Pro Asp Val Ser Gly Ser Leu
 65 70 75 80
 Ser Leu Asn Leu Thr Arg Val Pro Trp Arg Gln Ala Leu Gln Thr Val
 85 90 95
 Val Asn Ser Ala Gly Leu Val Leu Arg Lys Arg Ala Ala Phe Phe Met
 100 105 110
 Cys Ile Arg Arg His Gly Asn Gly Ser Asn Lys Arg Val Lys Ser Arg
 115 120 125
 Ser Gly Pro Ser Val Cys Ser Thr Pro Arg Cys Thr Leu Thr Ala Phe
 130 135 140
 Arg Leu Leu Met Arg Met Arg Pro Asn Cys Lys Lys Arg Arg Lys Ser
 145 150 155 160
 Ser

<210> 8976
 <211> 214
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8976
 Asp Asn Phe Ser Ser Asp Ser Arg Ser Ile Ala Asn Glu Val Ser Val
 1 5 10 15
 His Val Leu Leu Arg Arg Val Ser Ala Gln Arg Gly Leu Pro Leu Thr
 20 25 30
 Asn Ser Leu Ser Ser Thr Glu Lys Met Ala Glu Lys Arg Asn Ile Phe
 35 40 45
 Leu Val Gly Pro Met Gly Ala Gly Lys Ser Thr Ile Gly Arg Gln Leu
 50 55 60
 Ala Gln Gln Leu Asn Met Glu Phe Tyr Asp Ser Asp Gln Glu Ile Glu
 65 70 75 80
 Lys Arg Thr Gly Ala Asp Val Gly Trp Val Phe Asp Val Lys Gly Glu
 85 90 95
 Glu Gly Phe Arg Asp Arg Glu Glu Lys Val Ile Asn Glu Leu Thr Glu
 100 105 110
 Lys Gln Gly Ile Val Leu Ala Thr Gly Gly Ser Val Lys Ser Arg
 115 120 125
 Glu Thr Arg Asn Arg Leu Ser Ala Arg Gly Val Val Val Tyr Leu Glu
 130 135 140
 Thr Thr Ile Glu Lys Gln Leu Ala Arg Thr Gln Arg Asp Lys Lys Arg
 145 150 155 160
 Pro Leu Leu Gln Val Glu Thr Pro Pro Arg Glu Val Leu Glu Ala Leu
 165 170 175
 Ala Asp Glu Arg Asn Pro Leu Tyr Glu Glu Ile Ala Asp Val Thr Ile
 180 185 190
 Arg Thr Asp Asp Gln Ser Ala Lys Val Val Ala Asn Gln Ile Ile His
 195 200 205
 Met Leu Glu Ser Asn
 210

<210> 8977
 <211> 368
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8977
 Gly Gly Cys Arg Val Met Glu Arg Ile Thr Val Thr Leu Gly Glu Arg
 1 5 10 15
 Ser Tyr Pro Ile Thr Ile Ala Ala Gly Leu Phe Asn Asp Pro Ala Ser
 20 25 30
 Phe Leu Pro Leu Lys Ala Gly Asp Gln Ala Met Leu Val Thr Asn Glu
 35 40 45
 Thr Leu Ala Pro Leu Tyr Leu Asp Arg Val Arg His Leu Leu Glu Gln
 50 55 60
 Ala Gly Val Lys Val Asp Ser Val Ile Leu Pro Asp Gly Glu Gln Tyr
 65 70 75 80
 Lys Ser Leu Thr Val Leu Asp Thr Val Phe Thr Ala Leu Leu Gln Lys
 85 90 95
 Pro His Gly Arg Asp Thr Thr Leu Leu Ala Leu Gly Gly Val Val
 100 105 110
 Gly Asp Leu Thr Gly Phe Ala Ala Ala Ser Tyr Gln Arg Gly Val Arg
 115 120 125
 Phe Ile Gln Ile Pro Thr Thr Leu Leu Ser Gln Val Asp Ser Ser Val
 130 135 140

Gly Gly Lys Thr Ala Val Asn His Pro Leu Gly Lys Asn Met Ile Gly
 145 150 155 160
 Ala Phe Tyr Gln Pro Ala Ser Val Val Val Asp Leu Asp Cys Leu Lys
 165 170 175
 Thr Leu Pro Ala Arg Glu Leu Ala Ser Gly Leu Ala Glu Val Ile Lys
 180 185 190
 Tyr Gly Ile Ile Leu Asp Gly Glu Phe Thr Trp Leu Glu Glu Asn
 195 200 205
 Met Asp Ala Leu Leu Arg Leu Asp Gly Gln Ala Met Ala Tyr Cys Ile
 210 215 220
 Arg Arg Cys Cys Glu Leu Lys Ala Glu Val Val Ala Ala Asp Glu Arg
 225 230 235 240
 Glu Thr Gly Leu Arg Ala Leu Leu Asn Leu Gly His Thr Phe Gly His
 245 250 255
 Ala Ile Glu Ala Glu Met Gly Tyr Gly Asn Trp Leu His Gly Glu Ala
 260 265 270
 Val Ala Ala Gly Met Val Met Ala Ala Arg Ala Ser Glu Arg Leu Gly
 275 280 285
 Gln Phe Arg Pro Glu Glu Thr Ala Arg Ile Ile Ala Leu Leu Lys Arg
 290 295 300
 Ala Gly Leu Pro Val Ser Gly Pro Gln Glu Met Ser Ala Gln Ala Tyr
 305 310 315 320
 Leu Pro His Met Met Arg Asp Lys Lys Val Leu Ala Gly Glu Met Arg
 325 330 335
 Leu Val Leu Pro Leu Ala Ile Gly Lys Ser Glu Val Arg Gly Gly Val
 340 345 350
 Pro His Glu Val Val Leu Gly Ala Ile Ala Asp Cys Gln Gln Ala
 355 360 365

<210> 8978

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 8978

Ser Ala Gly Cys Cys Arg Ser Phe Leu His Ser Arg Arg Arg Cys Asn
 1 5 10 15
 Gln Leu Val Ser Met Lys Lys Asn Arg Ala Phe Leu Lys Trp Ala Gly
 20 25 30
 Gly Lys Tyr Pro Leu Leu Asp Asp Ile Lys Lys His Leu Pro Lys Gly
 35 40 45
 Glu Cys Leu Ile Glu Pro Phe Val Gly Ala Gly Ser Val Phe Leu Asn
 50 55 60
 Thr Asp Phe Ser Arg Tyr Ile Leu Ala Asp Ile Asn Ser Asp Leu Ile
 65 70 75 80
 Ser Leu Tyr Asn Ile Val Lys Leu Arg Thr Asp Glu Tyr Val Glu Glu
 85 90 95
 Ala Arg Lys Leu Phe Thr Pro Glu Asn Asn Asn Pro Asp Val Tyr Tyr
 100 105 110
 Gln Phe Arg Ala Glu Phe Asn Gln Ser Gln Asp Pro Phe Arg Arg Ala
 115 120 125
 Leu Leu Phe Leu Tyr Leu Asn Arg His Gly Tyr Asn Gly Leu Cys Arg
 130 135 140
 Tyr Asn Leu Arg Gly Glu Phe Asn Val Pro Phe Gly Arg Tyr Lys Arg
 145 150 155 160
 Pro Tyr Phe Pro Gln Asp Glu Leu Tyr His Phe Ala Glu Lys Ala Gln
 165 170 175
 Asn Ala Glu Phe Tyr Cys Leu Ser Tyr Glu Glu Cys Met Glu Leu Ala
 180 185 190
 Gly Val Asn Ser Val Val Tyr Cys Asp Pro Pro Tyr Ala Pro Leu Ser
 195 200 205

Ala Thr Ala Asn Phe Thr Ala Tyr His Thr Asn Ser Phe Ser Pro Ala
 210 215 220
 Glu Gln Ala Arg Leu Ala Glu Met Ala Glu Lys Leu Val Ser Lys Arg
 225 230 235 240
 Ile Pro Val Leu Ile Ser Asn His Asp Thr Pro Asp Thr Arg Glu Trp
 245 250 255
 Tyr Lys Ala Ala Lys His Phe Gln Val Lys Val Arg Arg Ser Ile Ser
 260 265 270
 Ser Asn Gly Gly Thr Arg Lys Lys Val Asp Glu Leu Leu Ala Leu Tyr
 275 280 285
 Arg Pro
 290

<210> 8979

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 8979

Thr His Phe Lys Glu Met Arg Met Lys Gln Phe Leu Ile Ala Pro Ser
 1 5 10 15
 Ile Leu Ser Ala Asp Phe Ala Arg Leu Gly Glu Asp Thr Ala Lys Ala
 20 25 30
 Leu Ala Ala Gly Ala Asp Val Val His Phe Asp Val Met Asp Asn His
 35 40 45
 Tyr Val Pro Asn Leu Thr Ile Gly Pro Met Val Leu Lys Ala Leu Arg
 50 55 60
 Asn Tyr Gly Ile Thr Ala Pro Ile Asp Val His Leu Met Val Lys Pro
 65 70 75 80
 Val Asp Arg Ile Val Pro Asp Phe Ala Ala Gly Ala Ser Ile Ile
 85 90 95
 Thr Phe His Pro Glu Ala Ser Glu His Val Asp Arg Thr Leu Gln Leu
 100 105 110
 Ile Lys Glu Asn Gly Cys Lys Ala Gly Leu Val Phe Asn Pro Ala Thr
 115 120 125
 Pro Leu Ser Tyr Leu Asp Tyr Val Met Asp Lys Leu Asp Val Ile Leu
 130 135 140
 Leu Met Ser Val Asn Pro Gly Phe Gly Gly Gln Ser Phe Ile Pro Gln
 145 150 155 160
 Thr Leu Asp Lys Leu Arg Glu Val Arg Arg Ile Asp Glu Ser Gly
 165 170 175
 Tyr Asp Ile Arg Leu Glu Val Asp Gly Gly Val Lys Val Asn Asn Ile
 180 185 190
 Gly Glu Ile Ala Ala Ala Gly Ala Asp Met Phe Val Ala Gly Ser Ala
 195 200 205
 Ile Phe Asp Gln Pro Asp Tyr Lys Lys Val Ile Asp Glu Met Arg Arg
 210 215 220
 Glu Leu Ala Lys Val Ser His Gly
 225 230

<210> 8980

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 8980

Trp Arg Cys Arg Phe Pro Pro Val Arg Pro Ala Tyr Leu Leu Pro Cys
 1 5 10 15
 Arg Ala Pro Ala Val Ser Pro Glu Ser Trp Leu Pro Asp Leu Ala Pro
 20 25 30
 Cys Arg Arg Pro Ala Ser Ala Phe Gln Arg Pro Asp Tyr Ala Ser Pro

35 40 45
 Ala Arg Cys Arg Phe Ser Gly Gly Pro Ser Pro Gly Ala Arg Ser Gly
 50 55 60
 His Ser Arg Asp Gly Leu Thr Glu Cys Arg Asn Arg Gln Asn Ser Arg
 65 70 75 80
 Met Pro Pro

<210> 8981

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 8981

Leu Met Lys Thr Leu Trp Trp Gln Thr Val Gly Thr Gly Asn Cys His
 1 5 10 15
 Leu Val Leu Leu His Gly Trp Gly Leu Asn Ala Glu Val Trp Arg Cys
 20 25 30
 Ile Ser Glu Glu Leu Ala Ser Gln Phe Thr Val His Leu Val Asp Leu
 35 40 45
 Pro Gly Tyr Gly Arg Ser His Gly Tyr Gly Ala Met Thr Leu Asp Asp
 50 55 60
 Met Ala Glu Gln Val Leu Glu Ala Ala Pro Gln Lys Ala Val Trp Leu
 65 70 75 80
 Gly Trp Ser Leu Gly Gly Leu Val Val Ser Gln Ile Ala Leu Arg His
 85 90 95
 Pro Glu Arg Val Gln Ala Leu Ile Thr Val Ala Ser Ser Pro Cys Phe
 100 105 110
 Ser Ala Arg Glu Ala Trp Pro Gly Ile Lys Pro Glu Val Leu Ala Gly
 115 120 125
 Phe Gln His Gln Leu Ser Glu Asp Phe Gln Arg Thr Val Glu Arg Phe
 130 135 140
 Leu Ala Leu Gln Thr Met Gly Thr Glu Thr Ala Arg Gln Asp Ala Arg
 145 150 155 160
 Thr Leu Lys Gln Thr Val Leu Ser Leu Pro Met Pro Glu Val Glu Val
 165 170 175
 Leu Asn Gly Gly Leu Glu Ile Leu Lys Thr Ala Asp Leu Arg Glu Pro
 180 185 190
 Leu Ala Ser Leu Thr Val Pro His Leu Arg Ile Tyr Gly Tyr Leu Asp
 195 200 205
 Gly Leu Val Pro Arg Lys Val Val Pro Leu Leu Asp Ala Leu Trp Pro
 210 215 220
 Glu Ser Lys Ser Met Val Val Ala Lys Ala Ala His Ala Pro Phe Ile
 225 230 235 240
 Ser His Pro Ala Glu Phe Cys Ser Ala Leu Ser Gly Phe Ile Ser Glu
 245 250 255
 Ala Ser Thr Thr Pro
 260

<210> 8982

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 8982

Ile Cys Phe Val Thr Ile Ser Ser Arg Ile Tyr Thr Arg Ile Cys Trp
 1 5 10 15
 Ser Asn Pro Cys Thr Phe Leu Glu Tyr Ala Val Pro Gly Leu Ser Glu
 20 25 30
 Pro Leu Gly Val His Thr Met Gln Glu Asn Tyr Lys Ile Leu Val Val
 35 40 45

```

Asp Asp Asp Met Arg Leu Arg Ala Leu Leu Glu Tyr Leu Thr Glu
 50          55          60
Gln Gly Phe Gln Val Arg Ser Val Ala Asn Ala Glu Gln Met Asp Arg
 65          70          75
Leu Leu Thr Arg Glu Ser Phe His Leu Met Val Leu Asp Leu Met Leu
      85          90          95
Pro Gly Glu Asp Gly Leu Ser Ile Cys Arg Arg Leu Arg Ser Gln Ser
      100          105          110
Asn Pro Met Pro Ile Ile Met Val Thr Ala Lys Gly Glu Glu Val Asp
      115          120          125
Arg Ile Val Gly Leu Glu Ile Gly Ala Asp Asp Tyr Ile Pro Lys Pro
      130          135          140
Phe Asn Pro Arg Glu Leu Leu Ala Arg Ile Arg Ala Val Leu Arg Arg
      145          150          155
Gln Ala Asn Glu Leu Pro Gly Ala Pro Ser Gln Glu Glu Ala Val Ile
      160          165          170
Ala Phe Gly Lys Phe Lys Leu Asn Leu Gly Thr Arg Glu Met Phe Arg
      175          180          185
Glu Asp Glu Pro Met Pro Leu Thr Ser Gly Glu Phe Ala Val Leu Lys
      190          195          200
Ala Leu Val Ser His Pro Arg Glu Pro Leu Ser Arg Asp Lys Leu Met
      205          210          215
Asn Leu Ala Arg Gly Arg Glu Tyr Ser Ala Met Glu Arg Ser Ile Asp
      220          225          230
Val Gln Ile Ser Arg Leu Arg Arg Met Val Glu Glu Asp Pro Ala His
      235          240          245
Pro Arg Tyr Ile Gln Thr Val Trp Gly Leu Gly Tyr Val Phe Val Pro
      250          255          260
Asp Gly Ser Lys Ala
      265          270
      275

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<210> 8983

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 8983

```

Ser Gln Phe Thr Gln Gln Arg Pro Val Lys Met Thr Lys Pro Leu Gln
 1          5          10          15
Lys Pro Thr Ile Leu Asn Val Glu Thr Val Ala Lys Ser Arg Leu Phe
      20          25          30
Asn Val Glu Ser Val Asp Leu Glu Phe Ser Asn Gly Val Arg Arg Val
      35          40          45
Tyr Glu Arg Met Arg Pro Ser Ser Arg Glu Ala Val Met Ile Val Pro
      50          55          60
Ile Val Asp Glu His Leu Ile Leu Ile Arg Glu Tyr Ala Val Gly Thr
      65          70          75
Glu Ser Tyr Glu Leu Gly Phe Ser Lys Gly Leu Ile Asp Pro Gly Glu
      80          85          90          95
Thr Val Phe Glu Ala Ala Asn Arg Glu Leu Lys Glu Glu Val Gly Phe
      100          105          110
Gly Ala Lys Glu Leu Thr Phe Leu Lys Lys Leu Ser Met Ala Pro Ser
      115          120          125
Tyr Phe Ser Ser Lys Met Asn Ile Val Val Ala Glu Asp Leu Tyr Pro
      130          135          140
Glu Ser Leu Glu Gly Asp Glu Pro Glu Pro Leu Pro Gln Val Arg Trp
      145          150          155
Pro Leu Ala His Leu Met Asp Leu Leu Glu Asp Pro Asp Phe Asn Glu
      160          165          170          175
Ala Arg Asn Val Ser Ala Leu Phe Leu Val Arg Glu Trp Leu Lys Gly
      180          185          190

```

Gln Asp Arg Leu
195

<210> 8984

<211> 178

<212> PRT

<213> *Enterobacter cloacae*

<400> 8984

```

Leu His Arg Leu Pro Gly Ala Gly His Glu Arg Gly Ala Val Met Ser
1      5      10      15
Met Pro Asn Leu Leu Pro Trp Arg Arg Gln Gln Arg Asn Gln Arg Leu
      20      25      30
Arg Phe Trp Gly Leu Leu Phe Ala Ala Ser Leu Leu Val Met Leu Ala
      35      40      45
Gly Gly Phe Ser Leu Arg Ala Thr Gln Ser Leu Ala Leu Gln Ala Leu
      50      55      60
Gln Ser Glu Leu Ala Gly Thr Arg Ala Val His Lys Val Leu Arg Ala
65      70      75      80
Arg Gln Pro Gln Ser Ala Gly Leu Lys Thr Pro Ser Pro Pro Ser Asp
      85      90      95
Pro Ala Trp Gln Pro Ala Leu Glu Ser Leu Ala Ser Ala Met Pro Arg
      100      105      110
Gln Ala Trp Leu Thr Ala Leu Arg Tyr Gln Pro Pro Ser Leu Thr Leu
      115      120      125
Thr Gly Tyr Thr Thr Ser Leu Pro Ala Leu Ala Ala Met Thr Asp Ala
      130      135      140
Leu Lys Arg Val Thr Gly Phe Asn Pro Gly Pro Ala Gly Glu Leu Gln
      145      150      155      160
Gln Asp Ser Leu Gly Arg Trp Met Phe Ser Phe Lys Leu His Ser Arg
      165      170      175
Arg

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<210> 8985

<211> 152

<212> PRT

<213> *Enterobacter cloacae*

<400> 8985

```

Pro Val Gly Ile Trp Tyr Gln Arg Trp Ala Asp Ala Arg Pro Ser Arg
1      5      10      15
Arg Val Leu Cys Trp Leu Ile Ala Ser Gly Leu Val Ala Trp Ala Ile
      20      25      30
Trp Gly Leu Leu Leu Arg Pro Ala Ala Leu Arg Tyr Ala Asp Val Gln
      35      40      45
Ala Gln Ala Ile Ser Ala Lys Arg Ile Asn Ala Ser Leu Trp Pro Glu
      50      55      60
Ala Gly Arg Gln Ala Val Phe Thr Gln Val Thr Pro Ser Arg Pro Phe
65      70      75      80
Ser Pro Leu Ala Phe Gln Arg Glu Asp Ala Arg Leu Val Tyr Trp Lys
      85      90      95
Pro Gln Gln Ser Gly Gly Glu Leu Ala Leu Asp Ala Ser Trp Gly Ala
      100      105      110
Val Pro Ala Leu Phe Ser Arg Leu Ala Leu Glu Asn Val Arg Val Ser
      115      120      125
Ala Phe Ser Ile Ile Pro Gln Gly Lys Gln Leu Arg Leu Ser Leu Gln
      130      135      140
Leu Glu Ile Gly His Ala Gln
      145      150

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<210> 8986
 <211> 105
 <212> PRT
 <213> Enterobacter cloacae

<400> 8986
 Arg Thr Ala Arg Val Ser Gly Val Tyr His Ala Thr Ser Gly Gln Tyr
 1 5 10 15
 Ser Val Met Gly Asn Asp Pro Arg Asn Asp Phe Ala Phe Ser Leu Leu
 20 25 30
 Gln Met Phe Asp Val Gly His Glu Leu Ala Tyr Lys Glu Tyr Arg Phe
 35 40 45
 Glu Leu Asp Leu Arg Leu Ile Ser Leu Cys Ala Gly Asn Gly Asp Leu
 50 55 60
 Ile Ser Cys Gln Thr Ser Arg Ser Ile Glu Ile Ile Phe Arg Leu Thr
 65 70 75 80
 Leu Ala Leu Leu Gln Met Arg Phe Gln Phe Met Ser Cys Tyr Ala Gly
 85 90 95
 Cys Leu Arg Ser Gly Asp Tyr His
 100 105

<210> 8987
 <211> 255
 <212> PRT
 <213> Enterobacter cloacae

<400> 8987
 Val Met Asp Lys Leu Gln Ala Ile Arg Gly Val Ala Phe Asp Leu Asp
 1 5 10 15
 Gly Thr Leu Val Asp Ser Ala Pro Gly Leu Thr Ser Ala Val Asp Gln
 20 25 30
 Ala Leu Tyr Ala Leu Glu Leu Pro Val Ala Gly Glu Glu Arg Val Val
 35 40 45
 Thr Trp Ile Gly Asn Gly Ala Asp Val Leu Met Glu Arg Ala Leu Thr
 50 55 60
 Trp Ala Arg Gln Glu Arg Ala Ser Gln Arg Ser Ala Gln Gly Lys Pro
 65 70 75 80
 Ser Val Asp His Ala Asp Ile Pro Gln Asp Glu Gln Gln Arg Ile Leu
 85 90 95
 Arg Lys Leu Phe Asp Arg Phe Tyr Glu Thr Val Glu Glu Gly Ser
 100 105 110
 Phe Leu Phe Pro Asp Val Ala Glu Thr Leu Ser Ala Leu Tyr Ala Lys
 115 120 125
 Gly Ile Pro Leu Gly Leu Val Thr Asn Lys Pro Thr Pro Phe Val Ala
 130 135 140
 Pro Leu Leu Glu Ala Leu Asp Ile Ala Lys Tyr Phe Ser Val Ile Val
 145 150 155 160
 Gly Gly Asp Asp Val Gln Asn Lys Lys Pro His Pro Glu Pro Leu Leu
 165 170 175
 Leu Val Ala Gly Lys Leu Ser Leu Thr Pro Ala Glu Leu Leu Phe Val
 180 185 190
 Gly Asp Ser Arg Asn Asp Ile Leu Ala Ala Arg Ala Ala Gly Cys Pro
 195 200 205
 Ser Val Gly Leu Thr Tyr Gly Tyr Asn Tyr Gly Glu Ala Ile Thr Leu
 210 215 220
 Ser Glu Pro Asp Val Val Phe Asp His Phe Lys Asp Leu Leu Pro Ala
 225 230 235 240
 Leu Gly Leu Ser His Ser Glu His Gln Glu Leu Asn Asn Asp
 245 250 255

<210> 8988

<211> 167
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8988

```

Asn Ser Ala Lys Pro Thr Val Lys Pro Val Asn Thr Thr Ala His Trp
1      5      10      15
Met Cys Cys Leu Pro Asn Leu Ser Ile Arg Val Val Ala Ile Arg Cys
      20      25      30
Ala Pro Pro Gln Ser Ala Ser Ile Leu Pro Ser Met Ala Pro Lys Pro
      35      40      45
Met Ile Ser Ala Arg Leu Pro Ser Val Pro Pro Thr Pro Ala Leu Met
      50      55      60
Glu Leu Ile Thr Leu Thr Ser Gly Ile Pro Cys Ile Arg Pro Thr Ala
      65      70      75      80
Ser Ala Thr Arg Thr Arg Ala Ile Asn Pro Phe Ile Leu Lys Arg Ile
      85      90      95
Ile Lys Ser Ser Asn Asn Thr Thr Pro Ile Ala Thr Met Asn Asn Gly
      100      105      110
Met Ile Asp Leu Ala Phe Glu Leu Leu Trp Val Thr Ser Leu Phe Gln
      115      120      125
Arg Gln Ile Pro Val Val Pro Thr Gly Asn Arg Val Leu Thr Ala Leu
      130      135      140
Ile Leu Met Pro Ala Lys Thr Leu Ser Leu Val Gly Cys Tyr Lys Gly
      145      150      155      160
Val Glu Cys Pro Arg Glu
      165

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<210> 8989
 <211> 587
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 8989

```

Glu Met Glu Asn Arg Glu Thr Leu Ser Ala Leu Thr Arg Val Ala Val
1      5      10      15
Val Leu Ala Gly Ala Leu Gln Gly Val Ile Cys Tyr Val Ile Thr Trp
      20      25      30
Tyr Ile Glu Tyr Ala Lys Leu Pro Ser Asp Thr Leu Trp Leu Met Cys
      35      40      45
Val Val Pro Ala Thr Val Val Met Thr Thr Thr Leu Ser Leu Ala Met
      50      55      60
Thr Ser Phe Arg Lys Pro Phe Leu Trp Leu Ser Leu Gly Met Ile Gly
      65      70      75      80
Ala Ala Val Ala Gly Met Gly Gly Trp Leu Lys Trp Ser Val Ala Gly
      85      90      95
Leu Glu Ser Trp Asn Leu Arg Asp Glu Met Leu Val Phe Gly Phe His
      100      105      110
Leu Leu Leu Met Thr Leu Phe Val Leu Pro Trp Leu Gln Arg Arg Leu
      115      120      125
Asp Pro Val Pro Thr Thr Ser Phe Tyr Ser Asp Phe Tyr Gln Arg Asn
      130      135      140
Trp His Asn Ala Leu Thr Leu Leu Ile Ile Phe Val Ser Asn Gly Leu
      145      150      155      160
Phe Trp Leu Val Leu Phe Leu Trp Ala Glu Leu Phe Glu Leu Ile Gly
      165      170      175
Ile Gly Phe Phe Asp Arg Leu Phe Phe His Ser Asp Gly Phe Ile Ser
      180      185      190
Val Ala Ile Gly Val Val Ser Ala Ser Ala Ala Val Leu Thr Arg Met
      195      200      205
Gln Val Arg Leu Ile Leu Ala Leu Gln Asn Leu Leu Thr Leu Ile Ala

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      210              215              220
Thr Gly Leu Leu Pro Leu Met Ala Ala Leu Ala Leu Phe Ile Gly
225              230              235              240
Ala Leu Pro Phe Val Gly Phe Glu Ser Ile Ser Ala Arg Ile Ser Ala
      245              250              255
Ala Gly Leu Leu Thr Thr Leu Ala Leu Leu Leu Phe Leu Val Thr
      260              265              270
Ile Val Trp His Pro Gln Arg Gln Thr Leu Pro Tyr Tyr Ala Pro Leu
      275              280              285
Arg Gly Met Ile Arg Leu Ala Val Ala Ile Val Pro Ala Tyr Pro Val
      290              295              300
Leu Ala Gly Trp Ala Leu Trp Leu Arg Ile Ser Gln Tyr Gly Trp Ser
305              310              315              320
Pro Glu Arg Leu Tyr Gly Val Leu Ile Thr Ile Val Ala Leu Val Trp
      325              330              335
Ala Ile Gly Phe Cys Ala Ser Ala Leu Ile Gln Arg Arg Glu Pro Gln
      340              345              350
Lys Ile His Ala Tyr Val Ile Pro Ala Thr Gly Leu Ser Leu Ile
      355              360              365
Phe Leu Ala Leu Val His Thr Pro Val Leu Asp Pro Trp Arg Ile Ser
      370              375              380
Val Ala Ser His Met Ala Arg Tyr Gln Asp Gly Arg Ile Thr Ala Asp
385              390              395              400
Gln Val Ser Leu Tyr Met Leu Ser Asn Ala Gly Arg Lys Gly Arg Glu
      405              410              415
Ala Met Leu Thr Leu Gln Asn Asp Pro Gln Phe Ile Ser Asn Pro Lys
      420              425              430
Arg Gln Arg Glu Ile Asn Gly Leu Leu Ser Arg Asn Ala Gly Gly Ala
      435              440              445
Gly Lys Met Thr Ala Ala Met Leu Glu Lys Gln Val Gln Leu Ala Pro
      450              455              460
Gly Met Ala His Pro Asp Lys Thr Leu Trp Gln Ala Met Leu Ser Asn
465              470              475              480
Gln Tyr Arg Phe Glu Ser Cys Asp Ser Ala Gln Ser Asn Cys Leu Leu
      485              490              495
Met Pro Leu Asp Leu Asn Ser Asp Gly Lys Pro Glu Ala Val Leu Phe
      500              505              510
Gln Phe Thr Asp Arg Thr Ile Val Ala Tyr Thr Gln Thr Asn Thr Gly
      515              520              525
Trp Arg Ile Ala Gly Asp Ala Trp Lys Met Pro Glu Ala Leu Thr Arg
530              535              540
Gly Glu Leu Asp Arg Ala Leu Arg Gln Arg Lys Val Lys Ser Val Val
545              550              555              560
Lys Pro Trp Ala Asp Ile Glu Ile Phe Gly Glu Arg Val Asp Met Ser
      565              570              575
Tyr Asp Ser Tyr Asn Asn Ala Gln Trp Arg
      580              585

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<210> 8990

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 8990

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Ser Met Ala Phe Lys Thr Trp Gln Thr Gly Ile His Ile Gln Gln Asp
1              5              10              15
Lys Val Val Ala Val Ala Leu Thr Arg Glu Arg Ala Gly Trp Arg Leu
      20              25              30
Arg Arg Trp Trp Ala Val Pro Leu Ser Asp Gly Val Ile Gly Glu Gly
35              40              45
Lys Ile Leu Lys Pro Glu Glu Leu Val Asn Ala Leu Arg Gly Trp Arg

```


50		55		60
Lys Thr Leu Pro His Ser	His Arg Val Phe Leu Ser Phe Pro Ala Thr			
65	70	75		80
Arg Val Leu Gln Arg Ala Leu Pro Arg Pro Ser Val Thr Leu Arg Asp				
	85	90		95
Ser Glu Gln Leu Thr Trp Val Gly Ala Ala Leu Ala Arg Glu Leu Glu				
	100	105		110
Met Pro Ala Asp Thr Leu Cys Phe Asp Tyr Ala Gln Asp Thr Phe Ser				
	115	120		125
Asn Thr Phe Gln Val Thr Ala Ala Gln Asn Arg Glu Val Asp Thr Leu				
	130	135		140
Leu Thr Leu Ala Asn Ala Leu Arg Leu Arg Leu Ala Ala Ile Ala Pro				
	145	150		155
Asp Ala Gly Ala Leu Ala Asn Leu Leu Ser Ala Val Ala Pro Ala Arg				
	165	170		175
Cys Val Ala Trp Arg Asp Gln His Gln Trp Leu Trp Ala Met Arg His				
	180	185		190
Gln Trp Gly Arg Arg Tyr Thr Thr Thr Glu Ala Ala Thr Val Asn Glu Leu				
	195	200		205
Ala Ala Leu Leu Ala Leu Ser Ser Ser Asp Ile Ala Val Phe Asp Ala				
	210	215		220
Ala Arg Asp Pro Trp Glu Ala Val Thr Leu Cys Gln Pro Pro Leu Pro				
	225	230		235
Glu Cys Gly Ala Asp Tyr Thr Val Ser Leu Ala Leu Ala Met Ser Glu				
	245	250		255
Ala Pro				

<210> 8991

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 8991

Val Arg Phe Pro Ser Ser His Arg Ala Asn Ser Tyr Ala Ser Ala Cys				
1	5	10		15
Asn Trp Arg Ser Val Met Arg Ser Lys Ala Arg Leu Val Ile Leu Leu				
	20	25		30
Ser Pro Leu Phe Leu Thr Gly Met Arg Asp Pro Phe Ser Val Pro Glu				
	35	40		45
Glu Arg Cys Ser Ala Gly Gln Leu Ser Gln Trp Arg Tyr Gln Gly Ile				
	50	55		60
Val Ser Gly Ser Arg Asp Ile Gly Leu Met Gln Asp Gly Gln Lys Arg				
	65	70		75
Trp His Arg Val Lys Thr Gln Met Arg Leu Pro Thr Gly Trp Arg Val				
	85	90		95
Ser Ala Ile Asp Arg Gln Gln Leu Thr Val Asp Val Gly Asp Met Cys				
	100	105		110
Glu Pro Lys Arg Trp Thr Trp Gln Arg Glu Gly Thr Lys Lys Ser Glu				
	115	120		125
Asp Lys Asp Arg Ala Val Thr Gly Gly Thr Gln Pro Ala Pro Val Gly				
	130	135		140
Arg Asp Ala Lys Thr Gly His Pro Ala Gly Gly				
	145	150		155

<210> 8992

<211> 383

<212> PRT

<213> Enterobacter cloacae

<400> 8992

Cys Pro Gly Gly Ala Asn Ile Thr Gly Ala Gly Ser Ala Gly Gly Ser
 1 5 10 15
 Gln Ser Gly Gly Val Ala Gly Cys Gln Arg Phe Ala Phe Ala Glu Phe
 20 25 30
 Asn Ala Gly Ala Leu Glu Ala Gly Ala Ser Asp Gly Ser Glu Gln Arg
 35 40 45
 Arg Ala Gly Ile Ala Glu Glu Gly Gly Ile Phe Tyr Val His Thr Ala
 50 55 60
 Ala Trp Gln Arg Glu Gln Gln Thr Arg Lys Glu Gln Glu Arg Ala Gln
 65 70 75 80
 Arg Leu Leu Asp Ala Pro Leu His Ser His Ser Ile Pro Phe Ala Tyr
 85 90 95
 Ala Asp Ala Ala Glu Leu Gln Lys Ala Ala Glu Lys Leu Leu Ser Pro
 100 105 110
 Lys Gly Ser Leu Ser Val Asp Lys Arg Thr Asn Arg Phe Leu Val Arg
 115 120 125
 Asp Asn Gln Thr Val Val Asp Met Leu Gln Arg Trp Ala Val Gln Met
 130 135 140
 Asp Leu Pro Val Glu Gln Val Glu Leu Ala Ala Gln Ile Val Thr Ile
 145 150 155 160
 Ser Glu Lys Ser Leu Arg Glu Leu Gly Val Lys Trp Asn Leu Ala Asp
 165 170 175
 Ala Thr Glu Ala Ser Lys Val Gly Gln Val Thr Thr Leu Gly Ala Asp
 180 185 190
 Leu Ser Val Ala Ser Ala Thr Thr His Ala Gly Phe Asn Ile Gly Arg
 195 200 205
 Ile Asn Gly Arg Met Leu Asp Leu Glu Leu Ser Ala Leu Glu Gln Lys
 210 215 220
 Gln Gln Val Asp Ile Ile Ala Ser Pro Arg Leu Leu Ala Ser His Met
 225 230 235 240
 Gln Pro Ala Ser Ile Lys Gln Gly Ser Glu Ile Pro Tyr Gln Val Ser
 245 250 255
 Ser Gly Glu Ser Gly Ala Thr Ser Val Glu Phe Lys Glu Ala Val Leu
 260 265 270
 Gly Met Glu Val Thr Pro Val Val Leu Pro Gly Gly Arg Val Arg Leu
 275 280 285
 Lys Leu His Ile Ser Glu Asn Met Pro Gly Gln Val Leu Gln Gln Ala
 290 295 300
 Asp Gly Glu Thr Leu Ala Ile Asp Lys Gln Glu Ile Glu Thr Gln Val
 305 310 315 320
 Glu Val Lys Ser Gly Glu Thr Leu Ala Leu Gly Gly Ile Phe Ser Gln
 325 330 335
 Lys Asn Lys Thr Gly Arg Asp Ser Val Pro Val Leu Gly Asn Ile Pro
 340 345 350
 Trp Leu Gly Gln Leu Phe Arg His Asp Gly Lys Asp Asn Glu Arg Arg
 355 360 365
 Glu Leu Val Val Phe Ile Thr Pro Arg Leu Val Ser Ile Gln
 370 375 380

<210> 8993

<211> 430

<212> PRT

<213> *Enterobacter cloacae*

<400> 8993

Met Asp Glu Phe Lys Pro Glu Asp Glu Leu Lys Pro Asp Pro Ser Asp
 1 5 10 15
 Arg Arg Thr Gly Arg Ser Arg Gln Ser Ser Glu Arg Asp Asn Glu Pro
 20 25 30
 Gln Ile Asn Phe Asp Asp Val Asp Leu Asp Ala Asp Asp Arg Arg Pro
 35 40 45

Ser Arg Ser Arg Asn Ala Arg Asn Glu Arg Glu Asp Glu Glu Phe Glu
 50 55 60
 Ser Glu Glu Glu Leu Met Asp Glu Gln Pro Val Lys Arg Arg Pro Arg
 65 70 75 80
 Lys Arg Lys Lys Ala Val Ala Ala Lys Pro Ala Ser Arg Gln Tyr Ile
 85 90 95
 Met Met Gly Leu Gly Val Leu Val Leu Val Leu Ile Val Gly Ile
 100 105 110
 Gly Ser Ala Leu Lys Ala Pro Ser Thr His Ser Thr Glu Gln Thr Ala
 115 120 125
 Ser Ala Glu Lys Ser Ile Asp Leu Ser Gly Asn Asp Ala Ser Asn Gln
 130 135 140
 Ala Asn Gly Ala Gln Pro Ala Pro Gly Thr Thr Ser Ala Glu Gln Thr
 145 150 155 160
 Ala Gly Asn Thr Ser Thr Gly Gln Asp Ile Ser Leu Pro Pro Val Ser
 165 170 175
 Ser Thr Pro Thr Gln Gly Gln Ala Pro Ala Thr Pro Glu Gly Gln Gln
 180 185 190
 Arg Val Glu Val Gln Gly Asp Leu Asn Asn Ala Leu Met Gln Pro Gln
 195 200 205
 Asn Gln Glu Gln Val Asn Ala Ala Val Val Asn Ser Thr Leu Pro Thr
 210 215 220
 Glu Pro Ala Thr Val Ala Pro Val His Gly Ser Asn Ala Gln Gln Gln
 225 230 235 240
 Thr Thr Ala Thr Glu Thr Lys Pro Arg Gln Thr Gln Thr Ala Pro Arg
 245 250 255
 Gln Glu Arg Lys Gln Ala Val Ile Glu Pro Lys Arg Glu Thr Lys Pro
 260 265 270
 Gln Ala Val Ala Lys Ala Pro Glu Thr Lys Ala Pro Ala Gln Thr Lys
 275 280 285
 Pro Ala Val Ser Gln Pro Val Lys Ala Pro Thr Pro Ala Ala Thr Ala
 290 295 300
 Ala Pro Lys Ala Thr Ala Thr Thr Ala Ala Pro Ala Ala Thr Thr Pro
 305 310 315 320
 Ala Ala Pro Ala Ala Lys Thr Gly Ala Ser Pro Gly Lys Thr Thr Gly
 325 330 335
 Asn Val Gly Ser Leu Gln Ser Ala Ser Ser Ser Asn Tyr Thr Leu Gln
 340 345 350
 Leu Ser Ser Ser Ser Asn Tyr Asp Asn Leu Asn Ala Trp Ala Lys Lys
 355 360 365
 Ser Asn Leu Lys Asn Tyr Val Val Tyr Gln Thr Thr Arg Asn Gly Gln
 370 375 380
 Pro Trp Tyr Val Leu Val Ser Gly Ile Tyr Ala Ser Lys Asp Glu Ala
 385 390 395 400
 Lys Arg Ala Val Ser Thr Leu Pro Ala Asp Val Gln Ala Lys Asn Pro
 405 410 415
 Trp Ala Lys Pro Ile His Gln Val Gln Ala Asp Leu Lys
 420 425 430

<210> 8994

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 8994

Ile Met Thr Lys Pro Ile Val Phe Ser Gly Ala Gln Pro Ser Gly Glu
 1 5 10 15
 Leu Thr Ile Gly Asn Tyr Met Gly Ala Leu Arg Gln Trp Val Ser Met
 20 25 30
 Gln Asp Asp Tyr His Cys Ile Tyr Cys Ile Val Asp Leu His Ala Ile
 35 40 45

```

Thr Ala Arg Gln Asp Pro Glu Lys Leu Arg Lys Ala Thr Leu Asp Thr
50 55 60
Leu Ala Leu Tyr Leu Ala Cys Gly Ile Asp Pro Glu Lys Ser Thr Ile
65 70 75 80
Phe Val Gln Ser His Val Pro Glu His Ala Gln Leu Gly Trp Ala Leu
85 90 95
Asn Cys Tyr Thr Tyr Phe Gly Glu Leu Ser Arg Met Thr Gln Phe Lys
100 105 110
Asp Lys Ser Ala Arg Tyr Ser Glu Asn Ile Asn Ala Gly Leu Phe Asp
115 120 125
Tyr Pro Val Leu Met Ala Ala Asp Ile Leu Leu Tyr Gln Thr Asn Gln
130 135 140
Val Pro Val Gly Glu Asp Gln Lys Gln His Leu Glu Leu Ser Arg Asp
145 150 155 160
Ile Ala Gln Arg Phe Asn Ala Leu Tyr Gly Asp Val Phe Lys Val Pro
165 170 175
Glu Pro Phe Ile Pro Lys Ser Gly Ala Arg Val Met Ser Leu Leu Glu
180 185 190
Pro Thr Lys Lys Met Ser Lys Ser Asp Asp Asn Arg Asn Asn Val Ile
195 200 205
Gly Leu Leu Glu Asp Pro Lys Ser Val Val Lys Lys Leu Lys Arg Ala
210 215 220
Val Thr Asp Ser Asp Glu Pro Pro Val Val Arg Tyr Asp Val Gln Asn
225 230 235 240
Lys Ala Gly Val Ser Asn Leu Leu Asp Ile Leu Ser Gly Val Thr Gly
245 250 255
Gln Ser Ile Pro Glu Leu Glu Lys His Phe Glu Gly Lys Met Tyr Gly
260 265 270
His Leu Lys Gly Glu Val Ala Asp Ala Val Ser Gly Met Leu Thr Glu
275 280 285
Leu Gln Glu Arg Tyr His Arg Tyr Arg Asn Asp Glu Ala Phe Leu Gln
290 295 300
Lys Val Met Lys Glu Gly Ala Glu Lys Ala Ser Ala Arg Ala Ser Glu
305 310 315 320
Thr Leu Thr Ala Val Tyr Glu Ala Ile Gly Phe Val Ala Lys Pro
325 330 335

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<210> 8995

<211> 546

<212> PRT

<213> Enterobacter cloacae

<400> 8995

```

Gly Ser Gly Glu Val Arg Met Thr Gln Val Asn Asp Val Arg Asp Ala
1 5 10 15
His Val Glu Thr Thr Pro Ala Pro Thr Val Ser Pro Trp Gln Pro Leu
20 25 30
Ser Gln Pro Val Phe Arg Met Leu Trp Ile Ala Thr Val Val Ser Asn
35 40 45
Val Gly Ser Trp Met Ser Asp Val Gly Ile Asn Trp Ser Met Leu Thr
50 55 60
Leu Ser Ala Asp Pro Leu Asp Ile Ala Leu Val Gln Ala Ala Ser Ser
65 70 75 80
Leu Pro Met Phe Leu Phe Ala Leu Pro Ser Gly Val Met Ala Asp Ile
85 90 95
Val Asp Arg Arg Lys Tyr Leu Leu Phe Ser Gln Leu Trp Val Phe Ile
100 105 110
Ala Ala Ala Gly Leu Thr Leu Leu Ser Phe Thr Gly His Val Thr Pro
115 120 125
Thr Val Leu Leu Val Ala Thr Phe Leu Leu Ser Val Gly Ala Ala Met
130 135 140

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Ser Ser Pro Pro Phe Gln Ala Val Val Pro Asp Leu Val Ser Lys Pro
 145 150 155 160
 Glu Leu Gly Ala Ala Val Ala Leu Asn Ser Leu Gly Val Asn Ile Ser
 165 170 175
 Arg Ala Ile Gly Pro Ala Leu Gly Gly Phe Leu Leu Ser Leu Ala Gly
 180 185 190
 Pro Trp Met Val Phe Ala Leu Asn Ala Leu Ser Val Val Gly Val Ala
 195 200 205
 Trp Val Leu Trp Arg Trp Arg Pro Ala Pro Ser Val Gln Arg Leu Pro
 210 215 220
 Pro Glu His Phe Phe Ser Ala Val Arg Ser Gly Ile Arg Tyr Val His
 225 230 235 240
 Ala Ala Pro Val Leu Arg Asn Val Leu Val Arg Thr Val Ala Phe Phe
 245 250 255
 Val Phe Gly Ser Ala Gly Trp Ala Leu Leu Pro Leu Val Ala Arg Arg
 260 265 270
 Glu Leu Gly Leu Gly Pro Ala Gly Tyr Gly Val Met Leu Ala Cys Ile
 275 280 285
 Gly Leu Gly Ala Ile Ala Gly Ala Ile Leu Leu Pro Arg Leu Arg Gln
 290 295 300
 Arg Leu Asn Ala Asp Arg Leu Met Val Ala Ala Ser Leu Val Phe Ala
 305 310 315 320
 Leu Thr Met Leu Ala Leu Ala Phe Val Arg His Val Trp Leu Leu Asn
 325 330 335
 Leu Phe Glu Phe Phe Thr Gly Phe Ala Trp Ile Ala Val Leu Ser Thr
 340 345 350
 Leu Asn Leu Gly Ala Gln Arg Ser Ala Ala Arg Trp Val Lys Ala Arg
 355 360 365
 Ala Leu Ala Val Tyr Leu Thr Val Phe Phe Gly Ser Met Thr Ala Gly
 370 375 380
 Ser Ala Leu Trp Gly Gln Ile Ala Ser Gln Phe Gly Thr Pro Thr Ser
 385 390 395 400
 Leu Val Val Ala Thr Leu Gly Met Val Leu Ala Ser Ala Thr Val Phe
 405 410 415
 Arg Trp Lys Leu Glu Lys Asp Pro Asp Leu Asn Leu Asp Leu Ser Gly
 420 425 430
 Gln Pro Leu Asp Gly Val Lys Ile Asp Leu Pro Asn Glu Arg Gly Pro
 435 440 445
 Val Leu Val Ser His Glu Tyr Ile Ile Asp Pro His Asn Ala Lys Ala
 450 455 460
 Phe Leu Gln Ala Val His Glu Leu Arg Arg Val Arg Arg Arg Ala Gly
 465 470 475 480
 Ala Met Ser Trp Ala Val Tyr Glu Asp Ile Glu Arg Pro Gly Leu Phe
 485 490 495
 Ile Glu Thr Phe Leu Met Gly Ser Trp Ile Glu His Leu Arg Gln Gln
 500 505 510
 Glu Arg His Thr Met Asn Asp Leu Leu Leu Gln Ser Arg Val Leu Ala
 515 520 525
 Phe His Gln Gly Thr Thr Ser Pro Ala Ile Arg Tyr Leu Val Ala Pro
 530 535 540
 Val
 545

<210> 8996

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 8996

Pro Ser Pro Val Gln Glu His Thr Met Ala Thr Phe Lys Ala Gln Asp
 1 5 10 15

Gly Thr Gln Ile Tyr Tyr Lys Asp Cys Gly Ala Gly Lys Pro Val Leu
 20 25 30
 Phe Ser His Gly Trp Pro Leu Asp Gly Asp Met Trp Asp Ser Gln Leu
 35 40 45
 Asn Tyr Leu Ala Glu Arg Gly Phe Arg Ala Ile Ala Phe Asp Arg Arg
 50 55 60
 Gly Phe Gly Arg Ser Asp Gln Pro Trp Asn Gly Tyr Tyr Asp Thr
 65 70 75 80
 Phe Ala Ser Asp Ile Asn Asp Leu Ile Thr Thr Leu Asp Leu His Glu
 85 90 95
 Val Met Leu Val Gly Phe Ser Met Gly Gly Asp Val Thr Arg Tyr
 100 105 110
 Ile Asn Asn Tyr Gly Ser Ala Arg Val Ala Gly Leu Ala Leu Leu Gly
 115 120 125
 Ala Val Thr Pro Ile Phe Gly Lys Ser Asp Thr Phe Pro Gln Gly Val
 130 135 140
 Asp Gln Ser Val Phe Asp Gly Ile Arg Asp Gly Leu Arg Lys Asp Arg
 145 150 155 160
 Ala Gln Phe Ile Ser Asp Phe Ala Thr Pro Phe Tyr Gly Ile Asn Ala
 165 170 175
 Gly Gln Thr Val Ser Ala Gly Ala Leu Thr Gln Thr Leu Asn Ile Ala
 180 185 190
 Leu Leu Ala Ser Leu Lys Gly Thr Ile Asp Cys Val Thr Ala Phe Gly
 195 200 205
 Glu Thr Asp Phe Arg Pro Asp Met Ala Lys Ile Asp Val Pro Thr Leu
 210 215 220
 Val Ile His Gly Ser Asn Asp Gln Ile Val Pro Phe Glu Thr Thr Gly
 225 230 235 240
 Lys Leu Ala Ala Glu Met Ile Lys Asn Ala Thr Leu Lys Val Tyr Asp
 245 250 255
 Asn Ala Pro His Gly Phe Ala Leu Thr His Gln Asp Gln Leu Asn Glu
 260 265 270
 Asp Leu Leu Ala Phe Val Lys Ser Leu
 275 280

<210> 8997

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 8997

Leu Arg Val Asp Trp Ser Glu Phe Cys Glu His His Arg Lys Thr Thr
 1 5 10 15
 Gly Ser Cys Asn Arg Thr Met Thr Ile Ala Lys Ser Leu Ser Gln Lys
 20 25 30
 Ile Ala Gly Met Lys Thr Ala Trp Tyr Asn Lys Ala Pro Ala Leu Asn
 35 40 45
 Lys Pro Leu Leu Val Leu Tyr Val Leu Ser Gln Tyr Lys Lys Gly His
 50 55 60
 Glu Arg Leu Phe Gln Phe Gln Asp Glu Ile Gln Asp Gln Leu Arg Asp
 65 70 75 80
 Leu Leu Lys Arg Tyr Gly Pro Lys Arg Ser Asn Tyr Glu Val Leu Met
 85 90 95
 Pro Phe Trp Arg Leu Lys His Asp Gly Phe Thr Ala Leu Glu Gly Thr
 100 105 110
 Asp Ser Ala Leu Leu Lys Ser Pro Glu Glu Pro Arg Leu Gln Thr Val
 115 120 125
 Leu Asp Asn Asn Val Arg Gly Gly Phe Asp Val Thr Ser Phe Phe Leu
 130 135 140
 Leu Gln Asn Gln Lys Leu Leu Ile Asp Ser Leu Ala Lys Gln Val Val
 145 150 155 160

Val Gln Tyr Leu Pro Ile Glu Phe His Ser Ala Leu Phe Lys Glu Leu
 165 170 175
 Gly Phe Glu Thr His Glu Pro Phe Glu Val Asn Glu Asn Pro Asn Asp
 180 185 190
 Arg Ile Ala Leu Val Gln Pro Asp Ile Asp Ile Thr Gln Asp Leu
 195 200 205
 Ala Ile Asp Glu Thr Thr Arg Thr Ala Leu Ile Gln Ala Arg Ile Gly
 210 215 220
 Gln Gly Asn Phe Arg Ala Glu Cys Leu Arg Leu Tyr Pro Ala Cys Pro
 225 230 235 240
 Val Thr Gly Ile Thr Phe Gln Pro Leu Leu Arg Ala Ser His Ile Met
 245 250 255
 Pro Trp Ser Ala Cys Gln Thr Ala Lys Glu Arg Leu Asp Pro Tyr Asn
 260 265 270
 Gly Leu Met Leu Ala Ala His Ile Asp Thr Leu Phe Asp Ser Gly Trp
 275 280 285
 Ile Ser Phe Ala Asn Glu Gly Asp Val Leu Ile Ser Asn His Leu Asp
 290 295 300
 Phe Gly Thr Cys Asp Lys Leu Asn Leu Pro Glu Arg Ile Ile Ala Leu
 305 310 315 320
 Pro Lys Pro Ser Tyr Asn Tyr Met Gln Trp His Arg Gln Asn Val Phe
 325 330 335
 Lys Gly

<210> 8998

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 8998

Arg Leu Pro Arg Ala Ala Pro Gly Pro Arg Ala Gly His Gly Gly Arg
 1 5 10 15
 Ala Gly Ala Arg Gly Ala Pro Ser Gly Gly Ala Pro Leu Ala Val Pro
 20 25 30
 Pro Ala Arg His Leu Gln Arg Ile His Gln Pro His Ala Gly Arg Leu
 35 40 45
 Arg Glu Gly Glu Pro Arg His Ser Val Gln Arg Pro Ala Leu Val Leu
 50 55 60
 Arg Pro Cys Gly Asn Arg Tyr Pro Gly Gln His Arg Pro His Gln Arg
 65 70 75 80
 Thr Gly Arg Arg His Cys Arg Pro Ala Pro His Gly Leu Pro Gly Arg
 85 90 95
 Ile Leu Cys Arg Ala Leu Arg His Arg Ser His Pro Pro His Ala Ala
 100 105 110
 Gly Ser Glu Asn Ala Arg Asp Arg Arg Ala Gly Gly Leu Arg Asp Gly
 115 120 125
 Arg His Pro Arg Gly Glu Leu Gln Pro Val Asp Arg Ala Leu Leu Ala
 130 135 140
 Gly Leu Arg Pro His Arg Arg Arg Asp Ala Asp Val Arg Pro Gln Arg
 145 150 155 160
 Pro Ser Gly Pro Arg Tyr Arg Pro Asp Ala Leu Asp Pro Gly Gln Arg
 165 170 175
 Val Val Leu Gln Arg Ala Glu Ser Glu Gly Ala Asp Gln Gly Arg Pro
 180 185 190
 Ala Cys Arg Pro Gly Ser Ala Glu Gln Arg Leu Leu Pro Arg Ala Gly
 195 200 205
 Arg Gly Asp Gln Gly His Arg Val Arg Pro Asp Gly Gly Glu Arg Arg
 210 215 220
 His Arg Leu Arg Arg Arg Gln Leu Trp Pro Ala Arg Ala Ala Gly His
 225 230 235 240

Pro Gly Pro Ala Arg Val Val Pro Gly Gly Glu Gly Ala Gly Ser Leu
 245 255
 Pro Gln Arg Ala Ala Ala Gly Arg Pro Arg Gly His Glu Cys Gly Ser
 260 265 270
 Pro Leu Gln Arg Pro Val Arg Gly Ser Gln Pro Pro Ala
 275 280 285

<210> 8999

<211> 393

<212> PRT

<213> *Enterobacter cloacae*

<400> 8999

Cys Ala Gly Glu Ser Pro Gly Phe Gln Lys Gly Thr Ser Gln Arg Met
 1 5 10 15
 Thr Asp Leu Ala Glu Arg Asp Asp Thr Gln Ala Arg Ala Ala Val Ser
 20 25 30
 Arg Ile Pro Leu Arg Asn Ile Trp Leu Met Leu Tyr Ala Ser Ser
 35 40 45
 Leu Phe Arg His His Gly Arg Ser Met Val Ala Ala Glu Asn Asn Pro
 50 55 60
 Glu Glu Ile Pro Ala Leu Val Ala Arg Ile Leu Leu His Glu Val Glu
 65 70 75 80
 Gln Arg Leu Leu Arg His Leu Ser Met Gly Tyr Gln Thr Arg Arg Ala
 85 90 95
 Thr Leu Asn Arg Val Arg Gly Arg Ile Asp Val Leu Arg Thr Thr Ser
 100 105 110
 Arg Gln Leu Leu Glu Arg Ala Gln Val Ala Cys Gln Phe Gln Glu Met
 115 120 125
 Thr Leu Asp Thr Pro Arg Asn Arg Tyr Val Arg Ser Ala Leu Glu His
 130 135 140
 Leu Val Pro Leu Leu Ser Asn Gly Pro Leu Ala Ala Gln Cys Arg Ala
 145 150 155 160
 Met Ala Ile Asn Leu Arg Arg Arg Gly Ile Glu Gly Gly Met Pro Ser
 165 170 175
 Lys Gly Glu Leu Pro Ser Ile Thr Arg Phe Gly Arg His Asp Ala Ala
 180 185 190
 Asp Lys Ala Met Val Asp Ala Ala Lys Leu Ala Phe Glu Leu Trp Leu
 195 200 205
 Pro Thr Gln Thr Ala Gly Gln Lys Leu Leu Pro Thr Pro Ser Asn Asp
 210 215 220
 Pro Tyr Trp Met Arg Lys Leu Phe Glu Lys Ser Met Ala Gly Phe Tyr
 225 230 235 240
 His Phe His Leu Pro Lys Lys Asp Trp Thr Val Ala Ala Gly Lys Glu
 245 250 255
 Leu Lys Trp Gly Leu Thr Ser Gln Ser Ala Gly Ser Glu Ser Ile Phe
 260 265 270
 Pro Thr Met Asn Ser Asp Ile Ile Leu Glu His Lys Gln Pro Ala Gln
 275 280 285
 Arg Val Ile Ile Asp Thr Lys Phe Asn Asn Ile Leu Thr Lys Gly Trp
 290 295 300
 Tyr Arg Asp Lys Ser Leu Arg Ser Gly Tyr Ile Tyr Gln Ile Tyr Thr
 305 310 315 320
 Tyr Leu Arg Thr Gln Glu Asn Arg Thr Asp Pro Leu Ser Leu Arg Ser
 325 330 335
 Ala Gly Leu Leu Leu His Pro Ala Val Asp Val Met Leu Tyr Glu Phe
 340 345 350
 Val Glu Val Gln Gly His Lys Ile His Phe Ala Thr Val Asp Leu Ala
 355 360 365
 Ala Asp Ala Ala Thr Met Thr Gln Gln Leu Leu Lys Leu Ala Arg Asp
 370 375 380

Cys Cys Gly Ile Thr Asp Val Asn
385 390

<210> 9000

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 9000

Cys Glu Phe Ala Lys Gly Arg Gly Arg Met Lys Arg Lys Thr Lys Val
1 5 10 15
Thr Met Asn Asp Ile Ala Arg Ala Ala Gly Val Ser Gln Ala Thr Val
20 25 30
Ser Leu Val Leu Asn Gln Ser Arg Asn Ile Lys Leu Ser Asp Asp Thr
35 40 45
Arg Gln Arg Val Ile Gly Val Ala Thr Glu Leu Gly Tyr Asp Arg Leu
50 55 60
Pro Ala Val His Ala Pro Arg Asn Gln Glu Ile Ala Leu Leu Val
65 70 75 80
Ser Ser Met Gln Ser Phe Asp Pro Phe Ile Asp Ala Ile Ser Gln Ala
85 90 95
Arg Glu Ala Ala Trp Arg Asn Glu Thr Leu Leu Thr Val Tyr Asp Tyr
100 105 110
Gly Asp Asp Ile Glu Leu Ala Leu Asn Ile Ile Arg Gln Leu Glu Lys
115 120 125
Arg Asn Cys Ile Gly Ile Val Leu Ala Ser Pro Val Thr Thr Leu Val
130 135 140
Asp Met Thr Ala Phe Gln Asp Cys Thr Arg Ile Pro Leu Val Leu Leu
145 150 155 160
Asn Gln Arg Asp Pro Gly Ser Pro Leu Leu Pro Ser Phe Ile Pro Asp
165 170 175
Asp Tyr Ala Asn Ala Phe Gln Val Thr Lys His Leu Ile Ala Cys Gly
180 185 190
Ala Thr Arg Ile Ala His Ile Thr Gly Glu Ser Trp Met Glu Ala Ser
195 200 205
Arg Gln Arg Leu Ala Gly Tyr Gln Ala Ala Leu Gln Gln Ala Gly Leu
210 215 220
Ala Cys Asp Asp Gly Leu Val Arg Gln Thr Asn Trp Gln Phe Ser Glu
225 230 235 240
Ser Phe Thr Ala Thr Thr Ser Leu Leu Glu Ala Glu Arg Pro Asp
245 250 255
Ala Ile Phe Cys Ala Ser Asp Trp Leu Ala Ile Gly Cys Tyr Gln Ala
260 265 270
Leu Ala Val Asn Gly Val Arg Ile Pro Gln Asp Met Leu Leu Ala Gly
275 280 285
Tyr Asp Asp Gln Lys Ile Ser Glu Gln Leu Thr Pro Pro Leu Thr Ser
290 295 300
Ile Gln Leu Pro Tyr Ser Glu Leu Gly Arg Leu Ala Val Glu Tyr Leu
305 310 315 320
Cys Asn Gln Glu Asp Ala Ala Thr His Val Thr Leu Ala Gly Arg Leu
325 330 335
Lys Val Arg Ala Ser Ser Leu Val
340 345

<210> 9001

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 9001

Met Glu His Ile Val Tyr Val Val Asp Asp Asp Asp Thr Val Arg Gln

1 5 10 15
 Ser Val Val Arg Leu Leu Glu Ser Ala Asp Met His Ala Leu Gly Phe
 20 25 30
 Ser Ser Ala Glu Ala Phe Leu Ser His Pro Phe Glu Asp Leu Pro Ser
 35 40 45
 Cys Val Ile Leu Asp Met Gln Met Pro Thr Ile Thr Gly Phe Asp Val
 50 55 60
 Ala Asp Ala Leu Lys Ala Ser Gly Arg Glu Ile Pro Ile Ile Phe Leu
 65 70 75 80
 Thr Gly His Gly Thr Ile Pro Met Ser Val Arg Ala Ile Lys Gly Gly
 85 90 95
 Ala Tyr Glu Phe Leu Thr Lys Pro Val Glu Ser Ser Ala Leu Ile Gly
 100 105 110
 Ser Ile Glu Ser Ala Leu Arg Leu Ala Gln His Asn Ala Ala Arg Val
 115 120 125
 Lys Glu His Tyr Ala Leu Lys Gln Arg His Met Ser Leu Thr Pro Arg
 130 135 140
 Glu Asn Glu Val Leu Glu Leu Ala Ile Ser Gly Lys Leu Asn Lys Gln
 145 150 155 160
 Ile Ala Ala Glu Leu Gly Val Ser Glu Ile Thr Val Lys Val His Arg
 165 170 175
 Arg Arg Val Met Glu Lys Met Gln Val Arg Ser Val Ala Glu Leu Val
 180 185 190
 Arg Ala Val Glu Arg Leu Thr Lys His Gln Pro Val Glu
 195 200 205

<210> 9002

<211> 628

<212> PRT

<213> Enterobacter cloacae

<400> 9002

Ser Gly Ala Leu Met Val Thr Leu Gly Lys Ala Asp Leu Ile Leu Val
 1 5 10 15
 Asn Gly Gln Phe His Thr Val Asp Arg Glu Asn Pro Leu Ala Glu Ala
 20 25 30
 Val Ala Val Arg Asp Gly Lys Phe Leu Glu Val Gly Thr Val Ala Glu
 35 40 45
 Val Met Gln His His Gly Asp Gly Thr Lys Val Val Asp Leu Lys Gly
 50 55 60
 His Thr Ala Ile Pro Gly Leu Asn Asp Ser His Leu His Leu Ile Arg
 65 70 75 80
 Gly Gly Leu Asn Tyr Asn Leu Glu Leu Arg Trp Glu Gly Val Pro Ser
 85 90 95
 Leu Ala Asp Ala Leu Arg Met Leu Lys Glu Gln Ala Leu Arg Thr Pro
 100 105 110
 Ser Pro Gln Trp Val Arg Val Val Gly Gly Trp Ser Glu Phe Gln Phe
 115 120 125
 Ala Glu Arg Arg Met Pro Thr Leu Asp Glu Ile Asn Asp Ala Ala Pro
 130 135 140
 Asp Thr Pro Val Phe Ile Leu His Leu Tyr Asp Arg Ala Leu Leu Asn
 145 150 155 160
 Arg Ala Ala Leu Lys Val Val Gly Tyr Thr Lys Glu Thr Pro Asn Pro
 165 170 175
 Pro Gly Gly Glu Ile Gln Arg Asp Ala Asn Gly Asn Pro Thr Gly Met
 180 185 190
 Leu Ile Ala Arg Pro Asn Ala Met Ile Leu Tyr Ala Thr Leu Ala Lys
 195 200 205
 Gly Pro Lys Leu Pro Leu Glu Gln Gln Val Asn Ser Thr Arg Gln Phe
 210 215 220
 Met Arg Glu Leu Asn Arg Leu Gly Leu Thr Ser Ala Ile Asp Ala Gly

225 230 235 240
 Gly Gly Phe Gln Asn Tyr Pro Glu Asp Tyr Glu Val Ile Ala Glu Leu
 245 250 255
 His Glu Lys Lys Gln Met Thr Ile Arg Ile Ala Tyr Asn Leu Phe Thr
 260 265 270
 Gln Arg Pro Gly His Glu Leu Glu Asp Phe Glu Lys Trp Thr Asp Met
 275 280 285
 Leu Thr Pro Gly Gln Gly Ser Asp Phe Phe Arg Gln Asn Gly Ala Gly
 290 295 300
 Glu Met Leu Val Phe Ser Ala Ala Asp Phe Glu Asp Phe Leu Glu Pro
 305 310 315 320
 Arg Pro Asp Leu Ala Pro Gly Met Glu Asp Glu Leu Glu Arg Val Val
 325 330 335
 Arg His Leu Val Glu His Arg Trp Pro Phe Arg Leu His Ala Thr Tyr
 340 345 350
 Asn Glu Ser Ile Ser Arg Met Leu Asp Val Phe Glu Lys Val Asn Arg
 355 360 365
 Asp Ile Pro Phe Asn Gly Leu His Trp Phe Phe Asp His Ala Glu Thr
 370 375 380
 Val Thr Gln Ala Asn Ile Asp Arg Ile Lys Glu Leu Gly Gly Ile
 385 390 395 400
 Ala Val Gln His Arg Met Ala Phe Gln Gly Glu Tyr Phe Ala Glu Arg
 405 410 415
 Tyr Gly Ile Glu Ala Thr Arg His Thr Pro Pro Val Ala Lys Met Leu
 420 425 430
 Glu Thr Gly Val Pro Val Gly Leu Gly Thr Asp Ala Thr Arg Val Ala
 435 440 445
 Ser Tyr Asn Pro Trp Thr Ala Leu Tyr Trp Leu Val Ser Gly Arg Thr
 450 455 460
 Val Gly Gly Met Gln Met Tyr Asp His Ser Ala Arg Leu Asp Arg Asp
 465 470 475 480
 Thr Ala Leu Met Leu Trp Thr Gln Gly Ser Ala Trp Phe Ser Ser Glu
 485 490 495
 Gln Asn Gln Lys Gly Gln Ile Lys Val Gly Gln Leu Ala Asp Leu Ala
 500 505 510
 Val Leu Ser Lys Asp Tyr Phe Arg Val Pro Glu Glu Glu Ile Lys Gly
 515 520 525
 Ile Glu Ser Val Leu Thr Val Val Asn Gly Asp Ile Val Tyr Ala Ala
 530 535 540
 Gly Ser Phe Gly Pro Leu Ala Pro Pro Ala Ile Pro Val Leu Pro Glu
 545 550 555 560
 Trp Ser Pro Val Val Lys Val Pro Gly His Tyr Arg Ser Ala Pro Pro
 565 570 575
 Gln Ala Ala Arg Val Gly Met Ser Val Ala His His Cys Ser Gly Pro
 580 585 590
 Cys Gly Val His Ser His Gln His Asp Phe Ala Arg Thr Ser Ala Met
 595 600 605
 Pro Val Ser Asp Asp Asn Ala Phe Trp Gly Ala Leu Gly Cys Ser Cys
 610 615 620
 Phe Ala Phe
 625

<210> 9003

<211> 676

<212> PRT

<213> Enterobacter cloacae

<400> 9003

Leu Phe Thr Gln Ala Tyr Asn Pro Val Lys Phe Ile Arg Gln Val Thr
 1 5 10 15
 Glu Ala Cys Asn Phe Thr Gly Glu His Met Asp Ala Val Glu Gln Asp

Val	Arg	Phe	Glu	Trp	Ala	Asp	Phe	25	Tyr	Gln	Ala	Phe	Ala	Ser	Gln	Leu
		35					40						45			
Leu	Thr	Trp	Arg	Asn	Arg	Gly	Glu	Glu	Leu	Val	Ala	Gly	Ile	His	Arg	
	50					55					60					
Ile	Ala	Ala	Glu	Ile	Gly	Ser	Met	Ser	His	Leu	Gln	Asp	Lys	Pro	Ala	
65					70					75					80	
Asn	Gly	Val	Pro	His	Pro	Leu	Lys	Asp	Ile	Cys	Pro	Phe	Thr	Thr	Met	
				85					90					95		
Gly	Leu	Phe	Asn	Arg	Ser	Leu	Thr	Val	Thr	Asn	Arg	Arg	Asn	Ile	Ala	
			100					105					110			
Ala	Ser	Leu	Ala	Lys	Leu	Ile	Gly	Val	Arg	Glu	Lys	Val	Pro	Glu	Ser	
		115					120					125				
Phe	Asp	Gly	Ile	Pro	Leu	Leu	Asn	Asn	Gln	Lys	Ser	Trp	Phe	Phe	Gly	
	130					135					140					
Tyr	Glu	Lys	Ser	Arg	Lys	Pro	Glu	Asp	Ile	Asp	Thr	Leu	Trp	Glu	Met	
145					150					155					160	
Phe	Ser	Gln	Ala	Ile	Ser	Phe	Ala	Asp	Thr	Pro	Asn	Ala	Asp	Pro	Ala	
				165					170					175		
Asp	Phe	Leu	Phe	Ser	Tyr	Asp	Ala	Ala	Ser	Asn	Val	Arg	Asn	Val	Gly	
		180						185					190			
Trp	Asn	Leu	Thr	Met	Gly	Leu	Tyr	Trp	Leu	Arg	Pro	Trp	Phe	Tyr	Pro	
		195					200					205				
Thr	Leu	Asp	Ser	Gln	Ser	Gln	Tyr	Tyr	Ile	Gln	Lys	Val	Leu	Asn	Ile	
	210					215				220						
Lys	Ile	Ile	Lys	Lys	Gly	Ala	Lys	Gly	Arg	Cys	Ser	Gly	His	Asn	Tyr	
225					230					235					240	
Gln	Ala	Val	Ala	Leu	Ala	Leu	Lys	Lys	Ala	Phe	Thr	Gln	Pro	Asn	Tyr	
				245					250					255		
Pro	Val	His	Ser	Phe	Pro	Glu	Leu	Ser	Leu	Ala	Ala	Trp	Asn	Ile	Asp	
			260						265				270			
Leu	Gln	Gln	Ser	Asn	Asp	Glu	Val	Glu	Arg	Leu	Thr	Trp	Lys	Ala	Tyr	
		275					280					285				
Leu	Leu	Asn	Lys	Ile	Lys	Val	Leu	Cys	Leu	Arg	Lys	Asp	Ser	Pro	Phe	
	290					295					300					
Phe	Ser	Leu	Arg	Glu	Leu	Lys	Glu	Ala	Tyr	Leu	Asp	Glu	Ile	Lys	Ala	
305					310					315					320	
Asp	Tyr	Pro	Asn	Asn	Asn	Thr	Ile	Glu	Ser	Ser	Ile	Ser	Tyr	Tyr	Leu	
			325						330					335		
Gln	Lys	Leu	Arg	Asp	Asp	Asp	Glu	Leu	Glu	Phe	Gln	Thr	Pro	Gly	Asn	
			340					345					350			
Tyr	Glu	Tyr	Leu	Asn	Phe	Asp	Lys	Gly	Glu	Leu	Gln	Ser	Ile	Thr	Glu	
	355						360					365				
Glu	Thr	Val	Glu													

Thr Leu Met Glu Ala Asp Lys Arg Thr Pro Asn Glu Ala Leu Glu Leu
 515 520
 Ser Tyr Arg Ser Asp Met His Glu Lys Thr Tyr Ile Pro Glu Asn Leu
 530 535 540
 Tyr Ile Ile Gly Thr Met Asn Ile Ala Asp Arg Ser Leu Ala Leu Leu
 545 550 555 560
 Asp Leu Ala Leu Arg Arg Arg Phe Ala Phe Ile Asp Leu Lys Pro Glu
 565 570 575
 Phe Asn Asp Ala Trp Lys Lys Trp Val Asn Gln Arg Phe Asn Val Ser
 580 585 590
 Leu Glu Thr Leu Ala Leu Ile Glu Ser Lys Leu Thr Ala Leu Asn Glu
 595 600 605
 Lys Leu Ser Arg Asp Ala Ala Leu Gly Pro Gln Phe Cys Ile Gly His
 610 615 620
 Ser Tyr Val Thr Pro Pro Ala Gly Leu Lys Ile Asp Asp Gly Met Ala
 625 630 635 640
 Trp Tyr Glu Gln Val Val Glu Thr Glu Ile Cys Pro Leu Leu Ala Glu
 645 650 655
 Tyr Trp Phe Asp Ala Pro Glu Lys Val Gln Asp Ser Arg Lys Glu Leu
 660 665 670
 Leu Ser Val
 675

<210> 9004

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 9004

Gly Val Phe Met Asn Ala Pro Thr Ile Leu Thr Gly Asp Arg Pro Thr
 1 5 10 15
 Gly Pro Leu His Leu Gly His Phe Val Gly Ser Leu Arg Gln Arg Val
 20 25 30
 Ala Leu Gln Gln Thr His Ser Gln Phe Val Leu Ile Ala Asp Leu Gln
 35 40 45
 Gly Leu Thr Asp Asn Gly Ser Asn Pro Gln Lys Ile Arg Asp Asn Ile
 50 55 60
 Pro Glu Val Leu Ala Asp Tyr Leu Ala Ala Gly Ile Asp Pro Asn Leu
 65 70 75 80
 Thr Thr Ile Cys Leu Gln Ser Ala Leu Pro Ala Leu Ala Asp Leu Thr
 85 90 95
 Met Leu Tyr Met Asn Ile Val Thr Val Ala Arg Val Glu Arg Asn Pro
 100 105 110
 Thr Val Lys Asn Glu Ile Ala Gln Lys Gly Phe Ala Arg Ser Leu Pro
 115 120 125
 Val Gly Phe Met Ala Tyr Pro Ile Ser Gln Ala Ala Asp Ile Thr Ala
 130 135 140
 Phe Lys Ala Glu Cys Val Pro Val Gly Asp Asp Gln Leu Pro Met Ile
 145 150 155 160
 Glu Gln Thr Asn Glu Ile Val His Lys Met Asn Ser Leu Leu Pro Ala
 165 170 175
 Pro Val Leu Arg His Cys Lys Ala Met Leu Ser Asp Thr Ser Arg Leu
 180 185 190
 Pro Gly Ile Asp Gly Ser Ala Lys Met Ser Lys Ser Leu Gly Asn Thr
 195 200 205
 Leu His Leu Ser Ala Ser Glu Glu Thr Ile His Arg Ala Val Ser Ala
 210 215 220
 Met Tyr Thr Asp Pro Asn His Leu Lys Val Ser Asp Pro Gly Gln Ile
 225 230 235 240
 Glu Gly Asn Val Val Phe Thr Tyr Leu Asp Ala Phe His Pro Asp Lys
 245 250 255

Asp Lys Val Ala Ala Met Lys Ala His Tyr Gln Ala Gly Gly Leu Gly
 260 265 270
 Asp Arg Val Cys Lys Asn Glu Leu Glu Gly Cys Leu Gln Glu Leu Ile
 275 280 285
 Ala Pro Met Arg Glu Arg Arg Ala Met Tyr Met Arg Asp Arg Gly Glu
 290 295 300
 Leu Met Ala Met Leu Lys Arg Gly Thr Glu Arg Ala Gln Gly Val Thr
 305 310 315 320
 Gln Glu Thr Leu Arg Glu Val Lys Val Gly Leu Gly Val Pro Val Phe
 325 330 335
 Ser

<210> 9005

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9005

Lys Gly Val Gly Ser Asp Arg His Val Arg Cys Glu Asn Ala Arg Ile
 1 5 10 15
 Gly Pro Asp Gln Gly Pro Glu Phe Thr Cys Arg Ala Leu Asp Arg Trp
 20 25 30
 Ala Cys Glu His Gly Val Asp Leu Arg Leu Ile Gln Pro Gly Asn Pro
 35 40 45
 Thr His Asn Gly Phe Ile Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu
 50 55 60
 Cys Leu Asn Glu His Trp Phe Ser Asp Ile Val His Ala Arg Lys Ile
 65 70 75 80
 Ile Asn Asp Trp Arg Gln Asp Tyr Asn Glu Cys Arg Pro His Ser Thr
 85 90 95
 Leu Asn Tyr Gln Thr Pro Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly
 100 105 110
 His Ser Glu Asn Glu Asp Ser Asp Val Thr Asn
 115 120

<210> 9006

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 9006

Arg Arg Pro Asn Pro Ala Ala His Arg Leu Arg Val Ala Pro Ala Ala
 1 5 10 15
 Gly Arg Gly Gly Arg Asp Val Leu Pro Ala Ser Ala Gly Pro Asp Arg
 20 25 30
 Ala Gly Ala Leu Gly Arg Gly Glu Leu Pro Arg Leu His Pro His Gly
 35 40 45
 Ala Asp Asp Gly Asp Tyr Pro Ala Ala Thr Ala Arg Thr Thr Ala
 50 55 60
 Val Leu Tyr Arg Met Ala Gly Ala Pro Arg Gly Gln His His Arg Arg
 65 70 75 80
 Ala Ala Pro Ala Asp Val Arg Gly Glu Gly Arg Ala Val Pro Val Gly
 85 90 95
 Ala Gly Ala Arg Gln Asn Pro Asp Val Ala Ala Val Ala Gly Gly Asp
 100 105 110
 Glu Gly Val His Gly Leu Leu Pro Pro Leu Val Pro Arg Arg Val Arg
 115 120 125
 Gly Glu Arg Tyr Pro Val Phe Thr Arg
 130 135

<210> 9007
 <211> 385
 <212> PRT
 <213> Enterobacter cloacae

<400> 9007

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Ser Arg Leu Phe Thr Leu Ser Leu Val Leu Thr Met Ala Tyr Gln Leu
1      5      10      15
Asn Leu Asn Trp Pro Glu Phe Leu Glu Lys Tyr Trp Gln Lys Gln Pro
20      25      30
Val Val Leu Lys Asn Ala Phe Pro Asn Phe Val Asp Pro Ile Thr Pro
35      40      45
Asp Glu Leu Ala Gly Leu Ala Met Glu Pro Glu Val Asp Ser Arg Leu
50      55      60
Val Ser His Ala Asn Gly Lys Trp Gln Ala Ser Asn Gly Pro Phe Glu
65      70      75      80
His Phe Asp Asn Leu Gly Glu Thr Gly Trp Ser Leu Leu Ala Gln Ala
85      90      95
Val Asn His Trp His Lys Pro Ala Ala Glu Leu Val Arg Pro Phe Arg
100     105     110
Val Leu Pro Asp Trp Arg Leu Asp Asp Leu Met Ile Ser Phe Ser Val
115     120     125
Pro Gly Ser Gly Val Gly Pro His Ile Asp Gln Tyr Asp Val Phe Ile
130     135     140
Ile Gln Gly Met Gly Ser Arg Arg Trp Arg Val Gly Asp Lys Leu Pro
145     150     155     160
Met Arg Gln Phe Cys Pro His Pro Ala Leu Leu His Val Asp Pro Phe
165     170     175
Glu Pro Ile Ile Asp Glu Asp Leu Ala Pro Gly Asp Ile Leu Tyr Ile
180     185     190
Pro Pro Gly Phe Pro His Asp Gly Phe Thr His Glu Thr Ala Leu Asn
195     200     205
Tyr Ser Val Gly Phe Arg Gly Pro Asn Gly Arg Asp Leu Ile Ser Ser
210     215     220
Phe Ala Asp Tyr Ala Leu Glu Asn Asp Leu Gly Gly Glu His Tyr Ser
225     230     235     240
Asp Pro Asp Leu Thr Cys Arg Glu His Pro Gly Arg Val Glu Gln Tyr
245     250     255
Glu Leu Asp Arg Ile Arg Glu Met Met Ile Asp Met Ile Ser Lys Pro
260     265     270
Asp Asp Phe Thr Lys Trp Phe Gly Ser Phe Val Ser Thr Pro Arg His
275     280     285
Glu Leu Asp Ile Ala Ala Ala Glu Pro Pro Tyr Ser Ala Glu Glu Val
290     295     300
Leu Asp Ala Leu Gln Gly Gly Glu Thr Leu Ser Arg Leu Ser Gly Leu
305     310     315     320
Arg Val Leu Asn Val Asn Gly Ser Phe Phe Ile Asn Ser Glu Gln Leu
325     330     335
Glu Thr Ala Asp Val Asn Gly Ala Asp Ala Leu Cys Arg Tyr Thr Glu
340     345     350
Leu Gly Gln Ala Glu Leu Gly Asp Ala Leu Asn Asn Pro Ala Phe Val
355     360     365
Asp Glu Leu Thr Gly Leu Ile Asn Gln Gly Tyr Trp Tyr Phe Asp Glu
370     375     380

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385

<210> 9008
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 9008

Asn Ala Arg Ser Asn Arg Met Ala Val Pro Val His Leu Phe Leu Thr
 1 5 10 15
 Asn Asp Gly Gly Thr Met Ile Cys Gly Ser Cys Asp Val Ala Gln Arg
 20 25 30
 Glu Gly Ser Ile Glu Leu Arg Gly Leu Gln His Asn Leu Ser Leu Pro
 35 40 45
 Thr Asp Ser Ala Thr Gly Lys Val Thr Gly Thr Arg Gln His Ser Pro
 50 55 60
 Phe Gln Phe Thr Lys Glu Leu Asp Ser Ser Ser Tyr Leu Phe Lys
 65 70 75 80
 Ala Ala Ala Thr Gly Gln Thr Leu Lys Thr Ala Glu Phe Arg Phe Tyr
 85 90 95
 His Ile Asn Tyr Ser Gly Gln Glu Glu Tyr Tyr Arg Ile Thr Leu
 100 105 110
 Glu Asn Val Lys Val Ile Ser Val Ser Pro Val Met Tyr Asp Thr Arg
 115 120 125
 Gly Cys Pro Gly Thr Gly His Met Glu Glu Val Ala Phe Asn Tyr Glu
 130 135 140
 Lys Ile Thr His Leu Tyr Lys Asp Gly Asn Leu Leu Ala His Asp Ala
 145 150 155 160
 Trp Asn Glu Arg Pro Thr Ser Gly Ser Ala Ala
 165 170

<210> 9009

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 9009

Ile Leu Ser Val Arg Gly Arg Val Met Lys Glu Gln Trp Ser Arg Glu
 1 5 10 15
 Gln Ala Gln Ala Trp Tyr Gln Gln Lys Gly Trp Leu Cys Gly Phe Asn
 20 25 30
 Tyr Leu Pro Ser Thr Ala Val Asn Trp Thr Asp Ile Trp Gln Ala Glu
 35 40 45
 Thr Phe Asp Ala Ala Thr Ile Glu Arg Glu Leu Gly Trp Ala Ala Asp
 50 55 60
 Ala Gly Tyr Asn Thr Leu Arg Ile Asn Leu Pro Phe Ile Val Trp Glu
 65 70 75 80
 His Asp Arg Asp Gly Leu Met Ala Arg Ile Asp Arg Phe Leu Thr Ile
 85 90 95
 Ala Asp Asp Arg Gly Phe Ser Thr Met Leu Thr Leu Met Asp Asp Cys
 100 105 110
 Gly Phe Ser Gly Asp Glu Pro Tyr Leu Gly Pro Gln Lys Pro Pro Val
 115 120 125
 Pro Gly Lys His Asn Ser Gln Ala Ala Ala Ser Pro Gly Arg Asp Lys
 130 135 140
 Val Cys Asp Pro Asp Cys Trp Ala Asp Ile Glu Arg Tyr Ile Arg Asp
 145 150 155 160
 Val Val Arg Gln Phe Arg Glu Asp Lys Arg Val Leu Leu Trp Asp Leu
 165 170 175
 Tyr Asn Glu Pro Gly Asn Arg Gly Ile Phe Ala Thr Gly Thr Gln Glu
 180 185 190
 Val Gln Tyr Asp Ala Lys Leu Glu Ser Cys Ala His Glu Leu Met Lys
 195 200 205
 Leu Ala Phe Gln Trp Val Arg Glu Glu Asp Pro Thr Gln Pro Leu Thr
 210 215 220
 Val Cys Ala Trp Arg Leu Pro Pro Glu Glu Glu Gly Glu Thr Phe Phe
 225 230 235 240

Gln His Pro Leu Asp Gln Thr Ala Leu Ala Leu Ser Asp Val Val Ser
 245 250 255
 Phe His Ala Tyr Thr His Thr Gly Arg Met Thr Ala Ile Ile Gln Gln
 260 265 270
 Leu Gln Gln Leu Gly Arg Pro Leu Phe Cys Thr Glu Trp Leu Ala Arg
 275 280 285
 His Val Gly Ser Thr Ile Glu Glu Gln Leu Pro Leu Met Tyr Ala Ala
 290 295 300
 Lys Val Ala Pro Tyr Gln Trp Gly Leu Val Arg Gly Lys Thr Gln Thr
 305 310 315 320
 Trp Leu Pro Trp Pro Val Val Met Lys Glu Ser Thr Asp Tyr Cys Arg
 325 330 335
 Leu Trp Phe His Asp Val Phe Glu Glu Asn Gly Ile Pro Phe Ser Arg
 340 345 350
 Ala Glu Ile Ala Leu Met Lys Lys Leu Arg Lys Ile Ala Pro Asp Pro
 355 360 365
 Gln Gly
 370

<210> 9010

<211> 478

<212> PRT

<213> *Enterobacter cloacae*

<400> 9010

Arg Pro Gly Ala Leu Ser Pro Gly Asn Gln Val Arg Thr Met Ala Thr
 1 5 10 15
 Thr Met Lys Ile Pro Ser Arg Glu Leu Trp Ser Tyr Phe Gly Tyr Gly
 20 25 30
 Leu Gly Gln Cys Phe Ser Phe Gly Leu Val Gly Ser Phe Ile Asn Tyr
 35 40 45
 Phe Tyr Thr Asp Val Leu Gly Ile Ser Ala Leu Ala Ala Ser Thr Ile
 50 55 60
 Phe Leu Ile Ala Arg Ala Trp Asp Ala Val His Asp Pro Leu Phe Ala
 65 70 75 80
 Ser Ile Met Asp Thr Ile Asn Ser Arg Phe Gly Lys Phe Arg His Phe
 85 90 95
 Leu Leu Ile Ala Pro Leu Leu Ile Thr Gly Val Thr Leu Leu Ser Phe
 100 105 110
 Tyr Lys Ile Glu Ala Asp Met Thr Lys Ile Leu Tyr Ala Gly Val
 115 120 125
 Thr Tyr Ile Leu Trp Gly Thr Leu Tyr Ala Ile Ser Asp Ile Pro Phe
 130 135 140
 Trp Ser Met Ser Ser Val Met Thr Asn Asp Ser Ala Gln Arg Thr Arg
 145 150 155 160
 Ala Val Thr Ala Ala Met Leu Gly Val Asn Ala Gly Ile Ala Cys Ala
 165 170 175
 Asn Ile Phe Phe Pro Lys Leu Ala Ala Phe Phe Ala Gln Tyr Ser Asn
 180 185 190
 Asp Lys Gly Tyr Phe Met Ala Ala Leu Val Met Met Leu Val Gly Leu
 195 200 205
 Pro Leu Met Leu Asn Gly Phe Met Gln Ile Lys Glu Arg Val Pro Pro
 210 215 220
 Ser Pro Glu Lys Val Thr Ile Arg Asp Thr Phe His Asn Leu Arg Gln
 225 230 235 240
 Asn Lys Pro Leu Phe Ile Val Leu Leu Ser Phe Phe Phe Cys Val Phe
 245 250 255
 His Asn Val Ala Gly Gly Leu Tyr Ile Tyr Phe Phe Ile Asn Asn Met
 260 265 270
 Gly Asp Gly Ser Leu Gln Met Ala Ile Gly Val Met Gly Ile Val Ala
 275 280 285

Ala Val Leu Cys Leu Val Ala Pro Met Leu Thr Arg Arg Met Gln Lys
 290 295 300
 Arg Lys Leu Phe Met Ile Leu Cys Gly Leu Asp Val Ala Val Arg Val
 305 310 315 320
 Val Met Trp Phe Thr Gly Tyr Gln His Thr Ala Leu Leu Phe Ile Leu
 325 330 335
 Leu Gly Leu Ser Thr Leu Phe Val Met Met Thr Asn Ile Leu Thr Ser
 340 345 350
 Ser Met Ile Ala Asp Thr Ile Glu Tyr Ala Glu Tyr His Thr Asn Lys
 355 360 365
 Arg Cys Ala Ala Ile Thr Phe Ser Gly Gln Thr Phe Thr Gly Lys Met
 370 375 380
 Ser Val Ala Val Gly Gly Leu Ile Gly Val Phe Leu Thr Met Ile
 385 390 395 400
 Asp Tyr Val Pro Gln Ala Gln Ala Gln Ser Asp Ser Val Leu Ser Gly
 405 410 415
 Leu Phe Phe Gly Ile Cys Leu Leu Pro Ala Ile Gly Ser Leu Ile Arg
 420 425 430
 Met Gly Phe Met Ser Arg Phe Thr Phe Thr Glu Glu Lys His Ala Glu
 435 440 445
 Val Cys Arg Leu Leu Ala Glu Arg Arg His His Val Glu Asn Ser Arg
 450 455 460
 Ala Glu Asn Glu Arg Leu Glu Arg Pro Ala Pro Ala Asn
 465 470 475

<210> 9011

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9011

Met Arg Thr Glu Asp Gln Trp Tyr Arg Ala Pro Ser Ala Arg Glu Gly
 1 5 10 15
 Lys Pro Arg Arg Val Thr Ile Cys Leu Arg Lys Asp Ser Met Thr Leu
 20 25 30
 Pro Trp Arg Ile Ala Ile Ile Asp Asp Glu Arg Ser Val Arg Ser Gly
 35 40 45
 Leu Ser Asn Leu Leu Gln Ser Glu Gly Tyr Ala Thr Asp Thr Phe Asp
 50 55 60
 Ser Ala Glu Val Phe Leu Ser His Pro Leu Ala Leu Ser Gly Ala Ser
 65 70 75 80
 Leu Val Ile Ala Asp Ile Lys Leu Arg Gly Met Asn Gly Ile Glu Leu
 85 90 95
 Phe Glu Lys Leu Arg Leu Leu Ala Met Pro Pro Pro Pro Ile Leu Phe
 100 105 110
 Ile Ser Gly His Ala Asp Glu Asn Met Gln Arg Tyr Ala Leu Ser Leu
 115 120 125
 Gly Ala Ala Ala Phe Leu Arg Lys Pro Ile Asn Ile Asp Ile Leu Leu
 130 135 140
 Asp His Ile Gln Arg Glu Leu Thr Arg Arg Gln
 145 150 155

<210> 9012

<211> 1865

<212> PRT

<213> Enterobacter cloacae

<400> 9012

Gly Ser Arg Met Asn Glu His Thr Ser Pro Ala Phe Trp Pro Ala Arg
 1 5 10 15
 Gly Ser Leu His Glu Gly Arg Ala Phe Val Leu Lys Glu Asp Val Ile

20										25					30				
Phe	Thr	Val	Leu	Ala	Gln	Glu	Gly	Gly	Ile	Ser	Trp	Met	Asn	Gly	Arg				
		35					40					45							
His	Pro	Gln	Ser	Gly	Gly	Ser	Phe	Ile	Ile	Ala	Thr	Ala	Val	Ser	Asp				
	50					55					60								
Glu	Glu	Glu	Glu	Arg	Ala	Thr	Arg	Leu	Leu	Lys	Asn	Glu	Phe	Ala	Leu				
65				70						75				80					
Arg	Asp	Arg	Leu	His	Asp	Gly	Trp	Ala	Ile	Arg	Pro	Val	Ala	Ser	Thr				
				85					90					95					
Gln	Tyr	Arg	Gly	Arg	Phe	Ala	Leu	Val	Tyr	Ala	Pro	Phe	Cys	Phe	Glu				
			100					105											
Leu	Leu	Ala	Cys	Arg	Ala	Gly	Lys	Ala	Ile	Ser	Gly	Ile	Ala	Arg	Phe				
		115					120					125							
Ile	Glu	Met	Ala	Ile	Arg	Ile	Cys	Gly	Pro	Leu	Arg	Gln	Met	His	Gln				
	130					135					140								
His	Asn	Leu	Ile	His	Gly	Asp	Ile	Lys	Pro	Gly	Ala	Ile	Phe	Val	His				
145					150					155					160				
His	Asp	Ala	Thr	Cys	Arg	Leu	Cys	Ser	Phe	Gly	Leu	Ser	Cys	Gly	Thr				
				165					170					175					
Ser	Ser	Ala	Phe	Ser	Gln	Ser	Arg	Leu	Ala	Ala	Ser	Gly	Gly	Thr	Pro				
		180						185						190					
Ala	Tyr	Met	Ser	Pro	Glu	His	Thr	Thr	Arg	Thr	Arg	Arg	Ala	Val	Asp				
		195					200					205							
Ser	Arg	Ser	Asp	Leu	Tyr	Ser	Leu	Gly	Ile	Val	Leu	Tyr	Glu	Leu	Leu				
	210					215				220									
Thr	Gly	Arg	Leu	Pro	Phe	Glu	Leu	Ser	Ala	Asp	Asp	Gln	Thr	Asn	Trp				
225				230					235					240					
Ala	His	Tyr	His	Ile	Ala	Ser	Glu	Pro	Leu	Ala	Pro	Gly	Arg	Val	Arg				
			245					250						255					
Pro	Asp	Val	Pro	Gly	Met	Leu	Ser	Thr	Ile	Ile	Leu	Lys	Leu	Leu	Glu				
			260					265					270						
Lys	Asn	Pro	Glu	Asn	Arg	Tyr	Gln	Thr	Val	Asp	Gly	Leu	Ile	Ala	Asp				
	275					280						285							
Leu	Arg	Arg	Cys	Gln	Ala	Thr	Leu	Thr	Val	Glu	Gly	Glu	Ile	Val	Asp				
	290					295					300								
Phe	Ile	Pro	Gly	Gln	Gln	Asp	Arg	Ser	Pro	Ala	Ile	His	Leu	Ala	Asp				
305				310					315					320					
Ser	Leu	Phe	Ser	Ala	His	Pro	Gln	Ala	Ser	Asp	Val	Ile	Ala	Ala	Phe				
			325					330						335					
Glu	Arg	Val	Ser	Gln	Ser	Gly	Ala	Pro	Glu	Val	Val	Thr	Ile	Gly	Gly				
		340						345					350						
Pro	Ser	Gly	Ile	Gly	Lys	Ser	Ser	Val	Ile	Ala	Thr	Thr	Leu	Lys	Ser				
	355					360						365							
Leu	Gln	Gln	Arg	Lys	Val	Leu	Leu	Ala	Val	Gly	Lys	Val	Asp	Gln	Tyr				
	370					375					380								
S																			

Ala His Arg Asp Leu Ser Ser Leu Ser Asp Pro Thr Leu Gln Thr Ala
 515 520 525
 Leu Ala Ser Leu Pro Glu Ala Ala Gln Tyr Ala Thr Thr Ile Val Pro
 530 535 540
 Gln Pro Leu Ser Val Lys Ala Val Ala Arg Trp Leu Gly Gly Ile Phe
 545 550 555
 His Ala Arg Ser Ser Gly Thr Ala Asp Leu Ala Thr Leu Ile His Glu
 565 570 575
 Lys Thr Gly Gly Asn Pro Leu Phe Val Gln Glu Phe Phe Arg Arg Ile
 580 585 590
 Val Asp Asp Gly Leu Val Val His Asn Lys Tyr Gln Gly Lys Trp His
 595 600 605
 Tyr Asp Leu Gln Ala Ile Arg Ala Arg His Tyr Thr Glu Asn Val Val
 610 615 620
 Thr Leu Val Leu Glu Gln Leu Lys Glu Met Pro Asp Glu Thr Arg Arg
 625 630 635
 Leu Leu Gly Ser Ile Ala Cys Leu Gly Cys Thr Gly Glu Leu Glu Met
 645 650 655
 Leu Cys Arg Val Val Gly Arg Ser Ala Ala Glu Ile Arg Tyr Ala Leu
 660 665 670
 His Pro Ala Val Thr Ala Gln Leu Ile Val Leu Thr Glu Lys Glu Tyr
 675 680 685
 Ala Phe Thr His Asp Arg Val Gln Glu Ala Ala Phe Ala Leu Leu Asp
 690 695 700
 Glu Gly Glu Lys Ser His Leu His Leu Thr Thr Ala Ser Leu Leu Ala
 705 710 715
 Asp Ala Ala Arg Gln Thr Ala Gly Asn Glu Leu Leu Phe Arg Ala Val
 725 730 735
 His His Val Ser Ala Ala Leu Asp Cys Ile Gln Pro Ala Pro Gln Arg
 740 745 750
 Gln Arg Phe Arg Glu Leu Ser Leu Gln Ala Ala Arg Arg Ala Lys Arg
 755 760 765
 Thr Gly Asp Tyr Leu Ser Ala Leu Ser Tyr Ile Gln Thr Ala Arg Ala
 770 775 780
 Leu Gly Asn Ala Gly Pro Val Ser Asp Phe Met Leu Asp Ile Glu Glu
 785 790 795
 Ala Gly Cys Glu Phe Ala Leu Gly His Leu Glu Arg Thr Arg Ala Leu
 805 810 815
 Cys Asp Ala Ile Leu Gly Ser Pro Gly Gly Leu Thr Glu Lys Ala Leu
 820 825 830
 Ala Ala Asn Leu Leu Ala Glu Val Tyr Met Arg Gln Ser Glu Ile Arg
 835 840 845
 Leu Ala Leu Glu Ala Ser Leu Cys Trp Leu Gly Val Phe Gly Ile Gln
 850 855 860
 Ile Ser Arg Tyr Pro Glu Asn Ala Glu Cys Asp Glu Ala Trp Gln Gln
 865 870 875
 Phe Cys Gln Arg Thr Ala Asp Ala Pro Leu Asn Pro Phe Ser Gln Leu
 885 890 895
 Lys Leu Met Glu Asn Ala Glu Thr Glu Ala Val Met Asn Leu Leu Tyr
 900 905 910
 Ser Ala Ser Ile Phe Ala Ser Phe Thr Cys Pro Arg Leu His Phe Leu
 915 920 925
 Leu Leu Cys Arg Met Met His Leu Thr Leu Asp His Gly Ile Thr Gly
 930 935 940
 Ala Ser Thr Thr Ala Met Ala Trp Phe Gly Val Leu Ile Gly His Arg
 945 950 955
 Tyr Ala Glu Tyr Arg Leu Gly Phe Glu Tyr Gly Thr Leu Ala Arg Glu
 965 970 975
 Leu Val Asn Arg His Gly Tyr Asp Ala Tyr Glu Ala Lys Thr Leu Leu
 980 985 990
 Pro Leu Asp Gln Leu Ser Val Trp Thr Gln Pro Leu Ser Tyr Thr Ile

995 1000 1005
 Glu Cys Ala Lys Ala Cys Phe Thr Ser Ala Val Thr His Gly Asp Met
 1010 1015 1020
 Thr Met Ala Cys Phe Ala Ala Cys His Gln Ile Ile Asn Phe Leu Ser
 1025 1030 1035 1040
 Arg Gly Asp His Leu Asp Gly Val Leu Thr Ser Ile Asp Arg Gly Leu
 1045 1050 1055
 Ala Phe Val Arg Lys Thr Asp Tyr Gln Asp Ile Glu Thr Val Leu His
 1060 1065 1070
 Ile Gln Arg Arg Tyr Val Glu Phe Leu Arg Thr Pro Val Thr Gly Pro
 1075 1080 1085
 Trp Ser Ala Ala Gln Ala Leu Pro Asp Asp Leu Leu Pro Ala Pro Pro
 1090 1095 1100
 Glu Gln Ala Pro Glu Gln Thr Ser Thr Met Leu Phe Trp Tyr Trp Leu
 1105 1110 1115 1120
 Tyr Arg Gly Met Ala His Phe Ser Cys Gly Glu Tyr Ala Asp Ala Gln
 1125 1130 1135
 Ala Asp Leu Glu Arg Ala Gly Trp Tyr Ala Trp Ser Ala Pro Gly His
 1140 1145 1150
 Ile His Leu Leu Asp Tyr His Phe Tyr Ser Ala Leu Ala Leu Ser Arg
 1155 1160 1165
 Gln Leu Thr Pro Glu Thr Phe Ser Ala Asp Tyr Arg Arg Ser Ile His
 1170 1175 1180
 His His Tyr Asp Lys Ile Ala Leu Trp Ala Arg Ile Asn Ser Gly Thr
 1185 1190 1195 1200
 Phe Ala Asp Lys Glu Ala Leu Ile Tyr Ala Glu Ile Val Arg Leu Asp
 1205 1210 1215
 Gly Met Asn Ser Ile Ala Leu Glu Gln Tyr Glu Lys Ala Val Arg Leu
 1220 1225 1230
 Ser Arg Glu Gly Gly Phe Asn Pro Ile Asn Ala Leu Ala His Glu Leu
 1235 1240 1245
 Ala Gly Arg Phe Ser Leu Ala Cys Gly Tyr Pro Thr Ala Ser Asp Ala
 1250 1255 1260
 His Phe Arg Gly Ala Ile Ala Ala Trp Gly Arg Ala Gly Ala Gln Ala
 1265 1270 1275 1280
 Lys Val Arg Gln Leu Glu Gln Asp Phe Pro His Leu Leu Ala Ser Gly
 1285 1290 1295
 Gln Ser Arg Ala Tyr Asp Thr Ala Ala Phe Ala Gln Asn Glu Val Ile
 1300 1305 1310
 Arg Asp Leu Gln Ser Val Ile Lys Ala Ser Arg Ala Leu Ser Glu Glu
 1315 1320 1325
 Ile Asn Leu Glu Arg Leu Ile Glu Asn Leu Met Thr Leu Leu Leu Glu
 1330 1335 1340
 Arg Ala Gly Ala Gln Arg Gly Leu Leu Leu Arg Val Ser Asp Asn His
 1345 1350 1355 1360
 Ile Pro Glu Ile Glu Ala Ser Ala Trp Thr Ser Thr Asp Gly Val Arg
 1365 1370 1375
 Val Arg Ile Leu Lys Ala Ser Pro Met Ala Thr Asp Met Pro Leu Ser
 1380 1385 1390
 Val Leu Ala Ala Val Ile Arg Thr Gly Gln Glu Ile Arg Thr Gly Lys
 1395 1400 1405
 Pro Glu Glu Phe His Pro Phe Ser Gln Asp Pro Tyr Leu Val Thr Ser
 1410 1415 1420
 Gly Ala Ala Val Met Cys Val Pro Met Phe Lys Gln Ala Arg Leu Val
 1425 1430 1435 1440
 Gly Val Leu Tyr Leu Glu Asn Arg Leu Met Pro Glu Val Phe Thr Ala
 1445 1450 1455
 Glu His Ser Arg Val Val Ser Leu Leu Gly Ala Gln Ala Val Ser
 1460 1465 1470
 Leu Glu Thr Ala Arg Leu Tyr Ala Glu Leu Leu Ala Glu Asn Ile Gln
 1475 1480 1485

Arg Arg Arg Val Glu Lys Glu Leu Arg Ala Ser Gln Thr Ser Leu Met
 1490 1495 1500
 Leu Gly Glu Gln Ile Ser His Thr Gly Ser Trp Arg Trp Glu Leu Val
 1505 1510 1515 1520
 Gln Asp Leu Met Phe Met Ser Glu Glu Tyr Ala Arg Ile Leu Gly Leu
 1525 1530 1535
 Pro Glu Gln Gln Lys Met Ile Ser Met Ala Glu Phe Leu Thr Phe Val
 1540 1545 1550
 His Glu Asp Asp Tyr Gly Arg Ile Ser Thr Leu Val Asn Gln Ser Val
 1555 1560 1565
 Arg Asp Gly Leu Ser Met Arg Ala Glu Phe Arg Ile Ile Arg Thr Asp
 1570 1575 1580
 Gly Ser Val Arg Tyr Ile Leu Gly Ile Gly Asp Pro Val Gly Val Gly
 1585 1590 1595 1600
 Ser Glu Val Asn Glu Tyr Tyr Gly Ile Ile Thr Asp Ile Thr Ser Gln
 1605 1610 1615
 Arg Ala Ala Glu Asp Ala Met Arg Val Ala Gln Ala Asp Leu Ala Arg
 1620 1625 1630
 Val Ser Arg Ala Thr Thr Val Gly Gln Leu Thr Ser Ser Ile Ala His
 1635 1640 1645
 Glu Ile Asn Gln Pro Leu Met Ser Ile Val Ser Asn Ala Gly Ala Ser
 1650 1655 1660
 Leu Arg Trp Leu Asn Arg Asp Pro Ala Arg Leu Asp Lys Val Arg Glu
 1665 1670 1675 1680
 Gly Leu Glu Glu Ile Ala Ala Glu Gly Glu Arg Ala Gly Glu Ile Ile
 1685 1690 1695
 Arg Ser Ile Gln Ser Leu Thr Arg Lys Gln Asp Pro Thr Phe Thr Arg
 1700 1705 1710
 Ile Asp Leu His Phe Leu Ile His His Ile Ile Met Leu Ser Arg Ser
 1715 1720 1725
 Glu Leu Glu Leu Arg His Ile Ser Val Asp Tyr Leu Leu Asn Ala Asp
 1730 1735 1740
 Asp Ser Phe Ile Ile Gly Asp Ser Val Gln Ile Gln Gln Val Leu Leu
 1745 1750 1755 1760
 Asn Leu Val Met Asn Ala Met Glu Ala Met Ala Glu Val Thr Asp Arg
 1765 1770 1775
 Pro Cys Ser Ile Thr Ile Ser Thr Ala Asn Cys Gly Glu Gly Lys Val
 1780 1785 1790
 Ile Phe Glu Ile Ala Asp Thr Gly Ser Gly Ile Glu Pro Glu Leu Thr
 1795 1800 1805
 Glu Arg Ile Phe Asp Ser Phe Tyr Ser Thr Lys Ala Gln Gly Met Gly
 1810 1815 1820
 Met Gly Leu Thr Ile Ser Ala Ser Ile Ile Glu Arg His Arg Gly Lys
 1825 1830 1835 1840
 Leu Ser Ala Arg Arg Arg Glu Pro Tyr Gly Thr Val Phe Thr Phe Ala
 1845 1850 1855
 Leu Pro Leu Ala Gly Gln Glu Glu
 1860 1865

<210> 9013

<211> 210

<212> PRF

<213> Enterobacter cloacae

<400> 9013

Ala Arg Gln Ala Glu Asp Ile Thr Met His Tyr Thr Leu Lys Ser Ser
 1 5 10 15
 Asp Asp Lys Glu Lys Ala Glu Gly Thr Asn Gly Ala Gly Ala Leu Gln
 20 25 30
 Gln Lys Leu Leu Glu Ser Arg Ser Ile Val Ile Ser Gly Glu Ile Asn
 35 40 45

Gln Glu Leu Ala Gln Lys Val Ile Thr Gln Met Ile Leu Leu Gln Ser
 50 55 60
 Val Ser Asn Asp Pro Ile Lys Leu Tyr Ile Asn Ser Gln Gly Gly His
 65 70 75 80
 Val Glu Ala Gly Asp Thr Ile His Asp Phe Ile Lys Phe Ile Arg Pro
 85 90 95
 Glu Val His Val Ile Gly Thr Gly Trp Val Ala Ser Ala Gly Ile Thr
 100 105 110
 Ile Phe Leu Ala Ala Lys Lys Glu His Arg Tyr Ser Leu Pro Asn Thr
 115 120 125
 Arg Phe Met Ile His Gln Pro Leu Gly Gly Val Arg Gly Gln Ala Thr
 130 135 140
 Asp Ile Glu Ile Glu Ala Arg Glu Ile Ile Arg Met Leu Glu Arg Val
 145 150 155 160
 Asn Lys Leu Ile Ala Asp Ala Thr Gly Gln Pro Leu Glu Lys Val Lys
 165 170 175
 Lys Asp Thr Asp Arg Asn Phe Trp Met Ser Pro Ala Glu Ala Leu Asp
 180 185 190
 Tyr Gly Ile Val Gly Lys Leu Ile Thr His Tyr Asp Glu Leu Asn Leu
 195 200 205
 Asp
 210

<210> 9014

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 9014

Leu Leu Pro Leu Gln Met Asp Gly Thr Val Leu Pro Val Leu Ser Arg
 1 5 10 15
 Cys Arg Pro Arg Met Met Leu Gln Ser Glu Asn Lys Ser Ala Lys Arg
 20 25 30
 Ile Phe Phe Val Glu Asp Phe Gln Val Phe Gly Glu Arg Tyr Gly Ile
 35 40 45
 Asp Tyr Arg Phe Pro Gln Leu Lys Glu Ala Gln Val Ser Gly Ser Pro
 50 55 60
 Val Leu Gln Gly Asn Val Glu Glu Met Met Leu Ser Ser Gly Ile Ser
 65 70 75 80
 Leu Thr His Ser Asp Val Arg Val Leu Gln Pro Tyr Glu Thr Thr Ser
 85 90 95
 Arg His Ser Ser Pro Leu Tyr Met Leu Val Val Leu Glu Gly Cys Val
 100 105 110
 Thr Leu Thr Leu Asn Gly Ile Asn Tyr Pro Val Arg Pro Gly Met Ala
 115 120 125
 Phe Ser Ser His Leu Ser Glu Asp Gln Val Met Ser Ala Arg His Asp
 130 135 140
 Ala Asp Ser Thr Leu Lys Thr Leu Ser Phe Gly Val Tyr Pro His Asp
 145 150 155 160
 Ala Gly Arg Glu Ala Leu Leu Glu Ser Leu Leu Leu Glu Trp Gln Ser
 165 170 175
 Leu Asn Ala Pro Ala Phe Val Trp Gln Val Pro Glu Phe Val Met Ser
 180 185 190
 Gly Ile Leu His Ala Gln Arg Gln Gly Gly Ser Val Leu Ser Arg Lys
 195 200 205
 Leu Leu Leu Glu Gly Leu Met Tyr Gln Leu Leu Gly His Gly Leu Asn
 210 215 220
 Gln Arg Gln Gln Pro Cys Pro Ser Arg Pro Glu His Ala Arg Leu Glu
 225 230 235 240
 Arg Val Arg Ser Leu Leu Glu Gln Ser Pro Glu Arg Asp His Thr Leu
 245 250 255

Ala Gln Leu Ala Ala Leu Ala Ala Met Ser Pro Ser Ser Leu Arg Ser
 260 265 270
 Lys Phe Arg Gln Arg Tyr Gly Cys Thr Leu Phe Asp Tyr Leu Arg Asn
 275 280 285
 Cys Arg Leu Ala Leu Ala Arg Arg Tyr Leu Leu Glu Gly His Ser Val
 290 295 300
 Gln Gln Ala Ala Trp Met Cys Gly Tyr Gln His Ala Thr Asn Phe Ala
 305 310 315 320
 Thr Ala Phe Arg Arg His Tyr Gly Ile Ser Pro Gly Asp Val Arg Lys
 325 330 335
 Leu Arg

<210> 9015

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 9015

Leu Ser Val Val Ser Asn Arg Gly Gly Arg Ser Gln Arg Leu Asn Glu
 1 5 10 15
 Ala Leu Glu Lys Leu Asn Glu Met Gly Ile Thr Thr Lys Leu Val Asn
 20 25 30
 Arg Val His Ser Lys Ile Val Val Gly Asp Glu Gly Leu Leu Cys Val
 35 40 45
 Gly Ser Phe Asn Trp Phe Ser Ala Ala Arg Glu Glu Arg Tyr Gln Arg
 50 55 60
 Tyr Asp Thr Ser Met Val Tyr Arg Gly Asp Ser Leu Lys Ala Glu Ile
 65 70 75 80
 Lys Thr Ile Tyr Ser Ser Leu Glu Gln Arg Gln Leu
 85 90

<210> 9016

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 9016

Glu Leu Tyr Met Ala Ala Thr Asn Phe Lys Pro Glu Phe Thr Val Cys
 1 5 10 15
 Lys Thr Glu Ser Asp Ala Phe Thr Gly Met Ile Glu Asn Arg Glu Leu
 20 25 30
 Val Arg Lys Asn Ser Ala Arg Arg Leu His Gly Asn Gln Pro Asn Ala
 35 40 45
 Ala Pro Val His Pro Arg Ala Glu Thr Pro Gln Asp Ser Ala Ala Cys
 50 55 60
 Cys Glu Leu Tyr Ala Arg Ile Asp Met Lys Tyr Leu Leu Gly Gly
 65 70 75 80
 Glu Trp Leu Thr Arg Ala Gly Phe Ile Asn Gly Met Pro Val Lys Ile
 85 90 95
 Arg Ala Met Lys Asp Cys Ile Val Ile Thr Pro Gln His Thr Arg Glu
 100 105 110
 Leu Trp Gly Cys Leu Glu Gly Met Ser Val Val Asn Ile Asn Lys Gln
 115 120 125
 Lys Val Ala Gln Trp Leu Lys Thr Phe Pro Gly Ala Leu Asn Asp Thr
 130 135 140
 Gly Asp Ile Pro Val Val Lys Arg Asn Ile Val Gln Ala Lys
 145 150 155

<210> 9017

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 9017

Arg Cys Asn Ala Glu Arg Gly Leu Arg Cys Glu Lys Ala Ala Phe Arg
 1 5 10 15
 Arg Leu Ser Glu Asn Gly Glu Asn Tyr Ser Met Pro Pro Leu Arg Arg
 20 25 30
 Gln Pro Pro Ala Val Tyr Gly Glu His Gly Val Val Tyr Val His Leu
 35 40 45
 Phe Thr Val Pro Arg Pro Ala Arg Lys Thr Lys Gly His Val Met Leu
 50 55 60
 Gln Ser Leu Asn His Leu Thr Leu Ala Val Ser Asp Leu Gln Lys Ser
 65 70 75 80
 Val Thr Phe Trp His Glu Leu Leu Gly Leu Thr Leu His Ala Arg Trp
 85 90 95
 Asn Ala Gly Ala Tyr Leu Thr Cys Gly Glu Leu Trp Val Cys Leu Ser
 100 105 110
 Tyr Asp Glu Ala Arg Gln Tyr Val Pro Pro Gln Glu Ser Asp Tyr Thr
 115 120 125
 His Tyr Ala Phe Thr Val Ala Glu Glu Asp Phe Glu Pro Phe Ser Gln
 130 135 140
 Arg Leu Lys Gln Thr Gly Val Thr Val Trp Lys Gln Asn Lys Ser Glu
 145 150 155 160
 Gly Ala Ser Phe Tyr Phe Leu Asp Pro Asp Gly His Lys Leu Glu Leu
 165 170 175
 His Val Gly Ser Leu Ala Ala Arg Leu Ala Ala Cys Arg Glu Lys Pro
 180 185 190
 Tyr Ala Gly Met Val Phe Thr Ser Asp Glu Ala
 195 200

<210> 9018

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 9018

Pro Leu Thr Ser Leu Asp Asn Leu Met Thr Thr Ser Lys Leu Glu Val
 1 5 10 15
 Leu Thr Pro Ala Asn Cys Gln Ile Ile Phe Ile Asp His Gln Pro Gln
 20 25 30
 Met Ala Phe Gly Val Gln Ser Ile Asp Arg Gln Val Leu Lys Asn Asn
 35 40 45
 Thr Val Ala Leu Ala Lys Ala Ala Lys Val Phe Asn Ile Pro Thr Ile
 50 55 60
 Ile Thr Thr Val Glu Thr Glu Ser Phe Ser Gly Asn Thr Tyr Pro Glu
 65 70 75 80
 Leu Leu Asp Val Phe Pro Gly Gln Asp Ile Leu Glu Arg Thr Ser Met
 85 90 95
 Asn Ser Trp Asp Asp Gln Lys Val Arg Asp Ala Leu Lys Ala Asn Gly
 100 105 110
 Lys Lys Lys Val Val Val Ala Gly Leu Trp Thr Glu Val Cys Asn Asn
 115 120 125
 Ser Phe Ala Leu Cys Ala Met Leu Glu Gly Asp Tyr Gln Ile Tyr Met
 130 135 140
 Val Ala Asp Ala Ser Gly Gly Thr Ser Lys Glu Ala His Asp Phe Ala
 145 150 155 160
 Met Gln Arg Met Ile Gln Ala Gly Val Ile Pro Val Thr Trp Gln Gln
 165 170 175
 Val Met Leu Glu Trp Gln Arg Asp Trp Ala Arg Lys Glu Thr Tyr Thr
 180 185 190

Ala Val Met Asp Ile Val Arg Glu His Ser Gly Ala Tyr Gly Met Gly
 195 200 205
 Val Asp Tyr Ala Tyr Thr Met Val His Lys Ala Pro Ser Arg Gln Lys
 210 215 220
 Ser Glu His Arg Thr Leu Ala Pro Val Pro Ala Arg
 225 230 235

<210> 9019

<211> 704

<212> PRT

<213> *Enterobacter cloacae*

<400> 9019

Glu Ile Ser Leu Glu Arg Val Met Phe Ala Lys Ser Arg Leu Ala Leu
 1 5 10 15
 Leu Val Gly Trp Val Thr Gly Ser Val Ala Phe Pro Leu Leu Ala Gln
 20 25 30
 Asp Ala Gln Lys Thr Asp Thr Val Val Val Thr Ser Gln Met Gln Ser
 35 40 45
 Ala Ala Thr Lys Leu Glu Thr Pro Asp Ile Glu Thr Pro Gln Ser Val
 50 55 60
 Ser Ile Val Thr Arg Glu Gln Phe Glu Glu Gln Gly Ala Thr Ser Val
 65 70 75 80
 Arg Gln Ala Val Ser Tyr Thr Pro Gly Val Tyr Ser Asn Gln Ile Gly
 85 90 95
 Ala Ser Asn Arg Phe Asp Tyr Met Val Leu Arg Gly Phe Ser Asp Gly
 100 105 110
 Ser Leu Asp Asn Val Tyr Leu Asp Gly Leu Lys Met Met Gly Asp Thr
 115 120 125
 Asn Ser His Ser Ser Leu Val Val Asp Pro Trp Phe Leu Asp Ser Ile
 130 135 140
 Glu Val Val Arg Gly Pro Ala Ser Val Leu Tyr Gly Arg Ser Ser Pro
 145 150 155 160
 Gly Gly Ile Val Ala Leu Thr Ser Arg Lys Pro Ser Phe Asp Pro Gly
 165 170 175
 Gly Glu Ile Lys Leu Phe Ala Gly Asn Asn Gln Arg Gly Ala Met
 180 185 190
 Phe Asp Val Thr Gly Pro Val Asp Asp Asn Asp Arg Val Ala Val Arg
 195 200 205
 Leu Ser Gly Met Thr Arg Tyr Ala Asp Ser Gln Phe Asp Pro Leu Lys
 210 215 220
 Glu Glu Arg Tyr Ala Leu Met Pro Ser Leu Thr Trp Arg Ile Thr Asp
 225 230 235 240
 Asn Thr Arg Leu Asp Leu Met Ala Tyr Leu His Arg Asp Pro Glu Gly
 245 250 255
 Gly Ser His Ser Gly Leu Pro Tyr Glu Gly Thr Val Val Pro His Ser
 260 265 270
 Gly Lys Lys Ile Ser Asn Thr Phe Phe Glu Gly Glu Asp Asp Tyr Asp
 275 280 285
 Lys Tyr Asp Arg Arg Glu Asn Met Val Gly Tyr Asn Ile Glu His Leu
 290 295 300
 Phe Asp Ser Gly Trp Ser Val Arg Gln Lys Leu Arg Tyr Leu His Thr
 305 310 315 320
 Lys Val Glu Leu Asn Gln Val Tyr Ala Ala Gly Trp Leu Asn Asp Thr
 325 330 335
 Glu Leu Asn Arg Gly Tyr Ser Gly Ser Asp Glu Lys Met Asn Ala Ile
 340 345 350
 Thr Leu Asp Asn Gln Val Asp Gly Ser Phe Asp Thr Gly Glu Val Asn
 355 360 365
 His Arg Val Leu Ile Gly Met Asp Tyr Gln Asp Arg Thr Asn Asn Val
 370 375 380

Thr Gly Tyr Tyr Gly Gly Phe Pro Pro Ile Asp Ala Phe His Pro Val
 385 390 400
 Tyr Gly Ala Lys Pro Asp Tyr Ile Thr Gln Tyr Ser Arg Glu Lys His
 405 410 415
 Lys Leu Arg Gln Thr Gly Tyr Tyr Leu Gln Asp Gln Met Ser Ile Asp
 420 425 430
 Arg Trp Arg Leu Thr Leu Gly Gly Arg Tyr Asp Gln Val Ser Val Ser
 435 440 445
 Asn Val Asp Asn Phe Asn His Thr Arg Ser Asp Leu Asp Lys Asn Arg
 450 455 460
 Tyr Ser Ser Arg Ala Ala Leu Leu Tyr Leu Phe Asp Asn Gly Val Ala
 465 470 475 480
 Pro Tyr Val Ser Tyr Ser Thr Ala Phe Thr Pro Thr Ser Phe Ala Asp
 485 490 495
 Glu Gln Gly Asn Ile Leu Asp Pro Met Lys Gly Lys Gln Trp Glu Ala
 500 505 510
 Gly Val Lys Tyr Glu Pro Glu Gly Met Asn Ser Gln Phe Ser Ala Ser
 515 520 525
 Val Phe Arg Ile Asn Gln Lys Asn Ile Ala Thr Lys Glu Glu Pro Thr
 530 535 540
 Asp Pro Tyr Arg Ser Ile Gly Glu Ile Glu Ser Glu Gly Val Glu Leu
 545 550 555 560
 Glu Ala Ile Gly Gln Leu Thr Asp Ser Leu Arg Met Gln Ala Ala Tyr
 565 570 575
 Thr Tyr Thr Asp Ile Arg Tyr Lys Lys Ser Ser Pro Glu Glu Glu Gly
 580 585 590
 Lys Arg Ala Val Tyr Ala Pro Arg Asn Met Ala Ser Ala Trp Leu Ser
 595 600 605
 Tyr Asp Val Lys Thr Gly Leu Leu Asp Gly Leu Thr Val Gly Ser Gly
 610 615 620
 Val Arg Tyr Val Asn Gly Ile Ala Ser Asp Arg Gln Asn Thr His Thr
 625 630 635 640
 Leu Pro Ser Tyr Thr Leu Val Asp Met Thr Val Gly Tyr Asp Leu Ser
 645 650 655
 Lys Val Gly Leu Thr Gly Val Ser Ala Gln Leu Asn Val Asn Asn Leu
 660 665 670
 Thr Asp Arg Ser Tyr Val Ala Ala Cys Asn Ser Leu Ser Tyr Cys Tyr
 675 680 685
 Phe Gly Ala Glu Arg Ser Ile Val Gly Ser Val Ser Trp Lys Phe
 690 695 700

<210> 9020

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 9020

Val Lys Ser Val Pro Gly Leu Val Cys Leu Gln Lys Arg Gly Leu Gly
 1 5 10 15
 Ser His Ala Pro Thr Ser Cys Arg Thr Tyr Gly Ser Ile Thr Met Thr
 20 25 30
 Asp Ile Ala Gln Leu Leu Gly Lys Asp Ala Asp Ser Leu Leu Gln His
 35 40 45
 Arg Cys Met Thr Ile Pro Ala Asp Gln Leu Tyr Leu Pro Gly His Asp
 50 55 60
 Tyr Val Asp Arg Val Met Val Asp Asn Asn Arg Pro Ala Val Leu
 65 70 75 80
 Arg Asn Met Gln Thr Leu Tyr Asn Thr Gly Arg Leu Gly Gly Thr Gly
 85 90 95
 Tyr Leu Ser Ile Leu Pro Val Asp Gln Gly Val Glu His Ser Ala Gly
 100 105 110

Ala Ser Phe Ala Ala Asn Pro Leu Tyr Phe Asp Pro Lys Asn Ile Val
 115 120
 Glu Leu Ala Ile Glu Ala Gly Cys Asn Cys Val Ala Ser Thr Tyr Gly
 130 135 140
 Val Leu Ala Ser Val Ser Arg Arg Tyr Ala His Arg Ile Pro Phe Leu
 145 150 155 160
 Val Lys Leu Asn His Asn Glu Thr Leu Ser Tyr Pro Thr Glu Tyr Asp
 165 170 175
 Gln Thr Leu Tyr Ala Ser Val Glu Gln Ala Phe Asn Met Gly Ala Val
 180 185 190
 Ala Val Gly Ala Thr Ile Tyr Phe Gly Ser Glu Gln Ser Arg Arg Gln
 195 200 205
 Ile Glu Glu Ile Ser Ala Ala Phe Glu Arg Ala His Glu Leu Gly Met
 210 215 220
 Val Thr Val Leu Trp Ala Tyr Leu Arg Asn Ala Ser Phe Lys Lys Asp
 225 230 235 240
 Gly Val Asp Tyr His Val Ser Ala Asp Leu Thr Gly Gln Ala Asn His
 245 250 255
 Leu Ala Ala Thr Ile Gly Ala Asp Ile Val Lys Gln Lys Met Ala Glu
 260 265 270
 Asn Asn Gly Gly Tyr Lys Ala Val Asn Phe Gly Tyr Thr Asp Asp Arg
 275 280 285
 Val Tyr Ser Lys Leu Thr Ser Asp Asn Pro Ile Asp Leu Val Arg Tyr
 290 295 300
 Gln Leu Ala Asn Cys Tyr Met Gly Arg Ala Gly Leu Ile Asn Ser Gly
 305 310 315 320
 Gly Ala Ala Gly Gly Glu Thr Asp Leu Thr Asp Ala Val Arg Thr Ala
 325 330 335
 Val Ile Asn Lys Arg Ala Gly Gly Met Gly Leu Ile Leu Gly Arg Lys
 340 345 350
 Ala Phe Lys Lys Ser Met Ala Asp Gly Val Lys Leu Ile Asn Ala Val
 355 360 365
 Gln Asp Val Tyr Leu Asp Ser Lys Val Thr Ile Ala
 370 375 380

<210> 9021

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 9021

Gly Phe Arg Ala Arg Cys Thr Lys Gly Glu Ser Ala Met Arg Leu Cys
 1 5 10 15
 Asp Arg Asp Ile Glu Ala Trp Leu Asp Glu Gly Arg Leu Ser Ile Thr
 20 25 30
 Pro Arg Pro Pro Val Glu Arg Ile Asn Gly Val Thr Val Asp Val Arg
 35 40 45
 Leu Gly Asn Lys Phe Arg Thr Phe Ser Gly His Thr Ala Pro Phe Ile
 50 55 60
 Asp Leu Ser Gly Pro Lys Asp Glu Val Ser Ala Ala Leu Asp Arg Val
 65 70 75 80
 Met Ser Asp Glu Ile Val Ile Asp Glu Gly Glu Ala Phe Tyr Leu His
 85 90 95
 Pro Gly Glu Leu Ala Leu Ala Val Thr Phe Glu Ser Val Thr Leu Pro
 100 105 110
 Ala Asp Leu Val Gly Trp Leu Asp Gly Arg Ser Ser Leu Ala Arg Leu
 115 120 125
 Gly Leu Met Val His Val Thr Ala His Arg Ile Asp Pro Gly Trp Ser
 130 135 140
 Gly Arg Ile Val Leu Glu Phe Phe Asn Ala Gly Lys Leu Pro Leu Ala
 145 150 155 160

Leu Arg Pro Gly Met Met Ile Gly Ala Leu Ser Phe Glu Pro Leu Thr
 165 170 175
 Gly Pro Ala Asp Arg Pro Tyr Asn Arg Arg Gln Asp Ala Lys Tyr Arg
 180 185 190
 Asp Gln Gln Gly Ala Val Ala Ser Arg Ile Asp Lys Asp
 195 200 205

<210> 9022

<211> 745

<212> PRT

<213> *Enterobacter cloacae*

<400> 9022

Gly Gly Ile His Leu Thr Arg Pro Val Cys Pro Ser Val Gly Ala Gly
 1 5 10 15
 Thr Glu Ser Ser Ala Gly Ile Thr Met Thr Glu Lys Thr Arg Pro Ser
 20 25 30
 Ala Ala Pro Thr Ser Gly Ser Asp Glu Ile Asp Ile Gly Arg Leu Val
 35 40 45
 Gly Thr Val Ile Glu Ala Lys Trp Trp Val Leu Gly Ile Thr Ala Ile
 50 55 60
 Phe Ala Val Ala Ala Ile Val Tyr Thr Leu Phe Ala Thr Pro Ile Tyr
 65 70 75 80
 Ser Ala Asp Ala Leu Val Gln Ile Glu Gln Asn Thr Gly Asn Ser Leu
 85 90 95
 Val Gln Asp Ile Gly Ser Ala Leu Ala Asn Lys Pro Pro Ala Ser Glu
 100 105 110
 Ala Glu Ile Gln Leu Ile Gln Ser Arg Leu Val Leu Gly Lys Thr Val
 115 120 125
 His Asp Leu Gly Leu Asp Ile Ala Val Thr Lys Asn Thr Phe Pro Val
 130 135 140
 Phe Gly Ala Gly Trp Asp Arg Leu Met Gly Arg Ser Asn Asp Thr Val
 145 150 155 160
 Lys Val Thr Asp Phe Val Ile Pro Lys Gly Ala Gly Asp Gln Thr Phe
 165 170 175
 Thr Leu Thr Val Leu Gly Pro Lys Gln Tyr Gln Leu Thr Ser Asp Ala
 180 185 190
 Gly Phe Ser Ala Arg Gly Glu Val Gly Gln Met Leu Thr Lys Glu Gly
 195 200 205
 Val Ser Ile Lys Val Ser Ala Ile Gln Ala His Glu Gly Gly Glu Phe
 210 215 220
 Thr Val Thr Lys Phe Ser Thr Leu Gly Met Ile Asn Asn Leu Gln Asn
 225 230 235 240
 Asn Leu Thr Val Thr Glu Asn Gly Lys Asp Thr Gly Val Leu Ser Met
 245 250 255
 Thr Phe Thr Gly Glu Asp Lys Asp Gln Ile Arg Asp Ile Leu Asn Ser
 260 265 270
 Ile Thr Arg Asn Tyr Leu Glu Gln Asn Val Glu Arg Lys Ser Ala Glu
 275 280 285
 Ala Ala Lys Ser Leu Ala Phe Leu Ser Lys Gln Leu Pro Glu Val Arg
 290 295 300
 Ala Arg Leu Asp Asp Ala Glu Asn Lys Leu Asn Ala Tyr Arg Gln Asp
 305 310 315 320
 Lys Asp Ser Val Asp Leu Pro Leu Glu Ala Lys Ser Val Leu Asp Ser
 325 330 335
 Met Val Asn Ile Asp Ala Gln Leu Asn Glu Leu Thr Phe Lys Glu Ala
 340 345 350
 Glu Ile Ser Lys Leu Tyr Thr Lys Arg His Pro Ala Tyr Arg Thr Leu
 355 360 365
 Leu Glu Lys Arg Arg Thr Leu Glu Glu Lys Ala Lys Leu Asn Asp
 370 375 380

Arg Val Thr Ala Met Pro Lys Thr Gln Gln Glu Ile Val Arg Leu Thr
 385 390 410 400
 Arg Asp Val Glu Ser Gly Gln Gln Val Tyr Met Gln Leu Leu Asn Lys
 405 415
 Gln Gln Glu Leu Lys Ile Thr Glu Ala Ser Thr Val Gly Asp Val Arg
 420 425 430
 Ile Val Asp Pro Ala Ile Thr Gln Pro Gly Val Leu Lys Pro Lys Lys
 435 440 445
 Ala Leu Ile Ile Leu Gly Ser Ile Ile Leu Gly Leu Met Leu Ser Ile
 450 455 460
 Val Gly Val Leu Leu Arg Ser Leu Phe Asn Arg Gly Ile Glu Ser Pro
 465 470 475 480
 Gln Val Leu Glu Glu Asn Gly Ile Ser Val Tyr Ala Ser Ile Pro Leu
 485 490 495
 Ser Glu Trp Gln Lys Ser Arg Asp Ser Val Lys Thr Val Lys Gly Val
 500 505 510
 Lys Arg Tyr Lys Gln Ser Gln Leu Leu Ala Val Gly Asn Pro Thr Asp
 515 520 525
 Leu Ala Ile Glu Ala Val Arg Ser Leu Arg Thr Ser Leu His Phe Ala
 530 535 540
 Met Met Gln Ala Lys Asn Asn Val Leu Met Met Thr Gly Val Ser Pro
 545 550 555 560
 Ser Ile Gly Lys Thr Phe Val Cys Ala Asn Leu Ala Ala Val Val Ser
 565 570 575
 Gln Thr Asn Lys Arg Val Leu Leu Ile Asp Cys Asp Met Arg Lys Gly
 580 585 590
 Tyr Thr His Glu Leu Leu Gly Thr Asn Asn Val Asn Gly Leu Ser Glu
 595 600 605
 Ile Leu Leu Gly Lys Gly Glu Ile Ser Glu Ser Ala Lys Pro Thr Ser
 610 615 620
 Ile Pro Lys Phe Asp Leu Ile Pro Arg Gly Gln Val Pro Pro Asn Pro
 625 630 635 640
 Ser Glu Leu Leu Met Ser Glu Arg Phe Thr Gln Leu Ile Glu Trp Ala
 645 650 655
 Ser Lys Asn Tyr Asp Leu Val Leu Ile Asp Thr Pro Pro Ile Leu Ala
 660 665 670
 Val Thr Asp Ala Ala Val Val Gly Arg His Ala Gly Thr Thr Leu Met
 675 680 685
 Val Ala Arg Tyr Ala Val Asn Thr Leu Lys Glu Val Glu Thr Ser Leu
 690 695 700
 Ser Arg Phe Glu Gln Asn Gly Ile Glu Val Lys Gly Val Ile Leu Asn
 705 710 715 720
 Ser Ile Phe Arg Arg Ala Thr Gly Tyr Gln Asp Tyr Gly Tyr Tyr Glu
 725 730 735
 Tyr Glu Tyr Lys Ser Asp Ser Lys
 740 745

<210> 9023

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 9023

Arg Ala Ser Gly Glu Ile Met Phe Leu Glu Asp Cys Arg Ala Asn Ser
 1 5 10 15
 Trp Ser Leu Arg Pro Cys Cys Met Val Leu Ala Tyr Arg Phe Ala His
 20 25 30
 Phe Cys Ser Val Trp Arg Lys Lys Asn Val Leu Asn Ile Trp Ala
 35 40 45
 Ala Pro Val Leu Val Leu Tyr Arg Ile Ile Thr Glu Cys Phe Phe Gly
 50 55 60

Tyr Glu Ile Gln Ala Ala Thr Ile Gly Arg Arg Phe Thr Ile His
 65 70 75 80
 His Gly Tyr Ala Val Val Ile Asn Lys Phe Val Val Ala Gly Asp Asp
 85 90 95
 Phe Thr Ile Arg His Gly Val Thr Ile Gly Asn Arg Gly Pro Asp Ser
 100 105 110
 Leu Ala Cys Pro Val Ile Gly Asn Asn Val Glu Leu Gly Ala Asn Val
 115 120 125
 Val Met Ile Gly Asp Ile Thr Val Gly Asn Asn Val Thr Ile Gly Ala
 130 135 140
 Gly Ser Val Val Leu Asp Ser Ile Pro Asp Asn Ala Leu Val Val Gly
 145 150 155 160
 Glu Lys Ala Arg Val Lys Val Ile Lys 170
 165

<210> 9024

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 9024

Leu Pro Pro Thr Ala Thr Pro Arg Gly Lys Cys Trp Arg Asn Arg Ala
 1 5 10 15
 Val Lys Pro Ser Val Lys Thr Arg Cys Cys Arg Trp Cys Ser Cys Arg
 20 25 30
 Arg Pro Ile Ser Arg Arg Leu Phe Leu Ala Arg Thr Trp Asn Arg Ser
 35 40 45
 Ala Thr Ala Ala Ala Lys Leu Thr Val Asp Asn Arg Cys Trp Arg Ser
 50 55 60
 Met Ser Arg Ser Ile Arg Ile Cys Ser Tyr Leu Leu Leu Pro Leu Ile
 65 70 75 80
 Tyr Leu Leu Val Asn Val Lys Ile Ala Gln Leu Gly Glu Ser Phe Pro
 85 90 95
 Ile Thr Ile Val Thr Phe Leu Pro Val Leu Leu Leu Tyr Val Asp
 100 105 110
 Lys Leu Asn Leu Lys Lys Leu Met Ile Ala Leu Gly Ile Gly Phe Gly
 115 120 125
 Leu Thr Ala Phe Asn Tyr Ile Phe Gly Gln Ser Leu Asp Ala Ser Lys
 130 135 140
 Tyr Val Thr Ser Thr Met Leu Phe Val Tyr Ile Val Ile Ile Ile Gly
 145 150 155 160
 Met Val Trp Ser Ile Arg Phe Lys Thr Ile Ser Pro His Asn Tyr Arg
 165 170 175
 Lys Ile Leu Arg Phe Phe Tyr Ile Val Val Gly Leu Ile Val Val Leu
 180 185 190
 Ala Ala Met Glu Met Ala Gln Ile Ile Leu Thr Gly Gly Ser Ser Leu
 195 200 205
 Met Glu Ile Ile Ser Lys Tyr Leu Ile Tyr Ser Asn Ser Tyr Val Leu
 210 215 220
 Asn Phe Ile Lys Phe Gly Gly Lys Arg Thr Thr Ala Leu Tyr Phe Glu
 225 230 235 240
 Pro Ala Phe Phe Ala Leu Ala Leu Ile Ser Ile Trp Leu Ser Ile Lys
 245 250 255
 Gln Phe Gly Ile Lys Thr Pro Lys Thr Asp Ala Met Ile Leu Ala Gly
 260 265 270
 Ile Val Leu Ser Gly Ser Phe Ser Gly Val Met Thr Phe Ile Leu Phe
 275 280 285
 Tyr Leu Leu Glu Trp Ala Phe Gln Tyr Leu Asn Lys Glu Ala Ile Lys
 290 295 300
 Lys Lys Leu Pro Leu Ala Ile Ile Ser Leu Thr Val Phe Leu Val Gly
 305 310 315 320

Val Ile Phe Ala Phe Pro Tyr Ile Ser Glu Arg Leu Gly Asp Leu Gly
 325 330 335
 Thr Glu Gly Ser Ser Ser Tyr Tyr Arg Ile Ile Gly Pro Leu Val Met
 340 345 350
 Val Gly Tyr Ser Leu Thr His Leu Asp Val Phe Thr Thr Ser Arg Arg
 355 360 365
 His Pro Thr
 370

<210> 9025

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9025

Ser Met Met Lys Ser Lys Met Lys Leu Met Pro Leu Leu Val Ser Val
 1 5 10 15
 Thr Leu Met Ser Gly Cys Thr Val Phe Pro Gly Ser Asn Met Ser Thr
 20 25 30
 Met Gly Lys Asp Val Ile Lys Gln Gln Asp Ala Asp Phe Asp Leu Asp
 35 40 45
 Lys Met Val Asn Val Tyr Pro Leu Thr Pro Arg Leu Val Glu Gln Leu
 50 55 60
 Arg Pro Arg Pro Asn Val Ala Gln Pro Asn Met Ser Leu Asp Gln Glu
 65 70 75 80
 Ile Ala Ser Tyr Gln Tyr Arg Val Gly Pro Gly Asp Val Ile Asn Val
 85 90 95
 Thr Val Trp Asp His Pro Glu Leu Thr Thr Pro Ala Gly Gln Tyr Arg
 100 105 110
 Ser Ser Ser Asp Thr Gly Asn Trp Val Gln Ser Asp Gly Thr Met Phe
 115 120 125
 Tyr Pro Tyr Ile Gly Lys Val His Val Ala Gly Lys Thr Leu Ala Glu
 130 135 140
 Ile Arg Ser Asp Ile Thr Gly Arg Leu Ala Gln Tyr Ile Ala Asp Pro
 145 150 155 160
 Gln Val Asp Val Asn Ile Ala Ala Phe Arg Ser Gln Lys Ala Tyr Ile
 165 170 175
 Ser Gly Gln Val Asn Lys Ser Gly Gln Gln Ala Ile Thr Asn Val Pro
 180 185 190
 Leu Thr Val Leu Asp Ala Ile Asn Ala Ala Gly Gly Leu Thr Asp Gly
 195 200 205
 Ala Asp Trp Arg Asn Val Val Leu Thr His Asn Gly Lys Glu Gln Arg
 210 215 220
 Ile Ser Leu Gln Ala Leu Met Gln Asn Gly Asp Leu Thr Gln Asn Arg
 225 230 235 240
 Leu Leu Tyr Pro Gly Asp Ile Leu Tyr Val Pro Arg Asn Asp Asp Leu
 245 250 255
 Lys Val Phe Val Met Gly Glu Val Lys Lys Gln Ser Thr Leu Lys Met
 260 265 270
 Asp Phe Ser Gly Met Thr Leu Thr Glu Ala Leu Gly Asn Ala Glu Gly
 275 280 285
 Ile Asp Leu Thr Ala Ser Asn Ala Ser Gly Ile Phe Val Ile Arg Pro
 290 295 300
 Ile Lys Gly Glu Asn Ala Lys Gly Lys Ile Ala Asn Ile Tyr Gln Leu
 305 310 315 320
 Asp Met Ser Asp Ala Thr Ser Leu Val Met Ala Thr Ser Phe Arg Leu
 325 330 335
 Gln Pro Tyr Asp Val Val Tyr Val Thr Thr Ala Pro Val Ala Arg Trp
 340 345 350
 Asn Arg Leu Ile Asn Gln Leu Leu Pro Thr Ile Ser Gly Val Arg Tyr
 355 360 365

100 105 110
 Ser Glu Glu Leu Glu Ser Glu Pro Ser Ala Asn Ile Ala Phe Val Pro
 115 120 125
 Leu Ala Met Pro Ser Thr Ala Gly Pro Gly Thr Ile Ala Met Ile Ile
 130 135 140
 Ser Ser Ala Ser Thr Val Arg Asp Gly Ser Thr Phe Pro His Trp Val
 145 150 155 160
 Ile Thr Val Ala Pro Pro Ile Ile Phe Ala Leu Ile Ala Ile Ile Val
 165 170 175
 Trp Gly Ser Leu Arg Ser Ser Gly Ala Ile Met Arg Trp Val Gly Lys
 180 185 190
 Gly Gly Ile Glu Ala Ile Ser Arg Leu Met Gly Phe Leu Leu Val Cys
 195 200 205
 Met Gly Val Gln Phe Ile Ile Asn Gly Val Leu Glu Ile Val Lys Thr
 210 215 220
 Tyr His
 225

<210> 9090

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 9090

Arg Thr Arg Leu Phe Ser Leu Lys Ile Lys Asn Asn Thr Thr Lys Thr
 1 5 10 15
 Gly Gly Asn Thr Met Gln Glu Ile Asp Phe Tyr Leu Val Asp Ala Phe
 20 25 30
 Ser Ala Ser Ser Phe Gly Gly Asn Pro Ala Ala Val Cys Pro Leu Asp
 35 40 45
 Ala Trp Leu Thr Asp Glu Thr Leu Leu Arg Met Ala Gln Gln His Asn
 50 55 60
 Gln Ser Glu Thr Ala Phe Phe Val Cys Thr Lys Gly Gly Ile Glu Leu
 65 70 75 80
 Arg Trp Phe Thr Thr Leu Thr Glu Val Asn Leu Cys Gly His Ala Thr
 85 90 95
 Leu Ala Ala Ala Tyr Ile Leu Phe Asn Glu Leu Asp Tyr Pro Asp Ser
 100 105 110
 Arg Leu His Phe Asp Thr Ala Ser Gly Arg Leu Thr Val Ser Arg Glu
 115 120 125
 Gly Asp Trp Met Thr Leu Asp Phe Pro Ala Cys Pro Thr Gln Ala Gln
 130 135 140
 Thr Pro Pro Pro Glu Leu Leu Thr Ala Leu Gly Ile Ser His Tyr Val
 145 150 155 160
 Glu Ala Arg Lys Gly Arg Ala Trp Val Leu Val Leu Glu Ser Arg Glu
 165 170 175
 Gln Val Glu Ala Ile Asn Pro Asp Phe Ser Ala Met Thr Pro Gly Glu
 180 185 190
 His Lys Val Ala Val Thr Ala Arg Asp Glu Gly Glu Tyr Asp Phe Ile
 195 200 205
 Ser Arg Phe Phe Ser Pro Gly Val Ala Val Pro Glu Asp Pro Val Thr
 210 215 220
 Gly Ser Ala His Thr Met Leu Ile Pro Tyr Trp Ser Glu Arg Leu Gly
 225 230 235 240
 Lys Thr Gln Met Phe Ala Arg Gln Val Ser Ala Arg Gly Gly Asp Val
 245 250 255
 Arg Cys Glu Leu Lys Gly Asp Arg Val Arg Met Gly Gly Gln Ala Ala
 260 265 270
 Leu Tyr Leu Lys Gly Thr Val Phe Leu Arg
 275 280

<210> 9091
 <211> 476
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9091

Gln Ser Arg Pro Gln Ser Ile Asn Cys Tyr Tyr Val Glu Asp Ile Met
 1 5 10 15
 Thr Tyr Ser Ser Ala Thr His Ala His Ser Val Asn Pro Ala Thr Gly
 20 25 30
 Glu Thr Leu Ala Ala Tyr Pro Trp Ala Thr Ser Arg Asp Val Glu Arg
 35 40 45
 Ala Ile Ala Gln Ala Asp Thr Gly Phe Arg Gln Trp Arg Arg Glu Ser
 50 55 60
 Val Ala His Arg Ala Gln Lys Leu Arg Asp Leu Gly Ala Ala Leu Arg
 65 70 75 80
 Ser Arg Ala Glu Glu Met Ala Gln Thr Ile Ser Arg Glu Met Gly Lys
 85 90 95
 Pro Ile Val Gln Ala Arg Ala Glu Val Ala Lys Ser Ala Ser Leu Cys
 100 105 110
 Asp Trp Tyr Ala Glu His Gly Pro Ser Met Leu His Pro Glu Ser Thr
 115 120 125
 Gln Val Glu Asn Ala Val Ile Glu Tyr Arg Pro Leu Gly Pro Ile Leu
 130 135 140
 Ala Val Met Pro Trp Asn Phe Pro Leu Trp Gln Val Leu Arg Gly Ala
 145 150 155 160
 Val Pro Ile Leu Leu Ala Gly Asn Ser Tyr Leu Leu Lys His Ala Pro
 165 170 175
 Asn Val Leu Gly Ser Ala Glu Leu Ile Gly Lys Val Phe Ala Asp Ala
 180 185 190
 Gly Phe Pro Glu Gly Val Phe Gly Trp Val Asn Ala Thr Asn Asp Gly
 195 200 205
 Val Ser Gln Ala Ile Asn Asp Arg Arg Ile Ala Ala Val Thr Val Thr
 210 215 220
 Gly Ser Val Arg Ala Gly Ala Ala Ile Gly Ala Gln Ala Gly Ala Ala
 225 230 235 240
 Leu Lys Lys Cys Val Leu Glu Leu Gly Gly Ser Asp Pro Phe Ile Val
 245 250 255
 Leu Asn Asp Ala Asp Leu Asp Leu Ala Val Asn Ala Ala Val Ala Gly
 260 265 270
 Arg Tyr Gln Asn Thr Gly Gln Val Cys Ala Ala Ala Lys Arg Phe Ile
 275 280 285
 Val Glu Ala Gly Val Ala Asp Ala Phe Thr Gln Arg Phe Val Asp Ala
 290 295 300
 Val Lys Ala Leu Lys Met Gly Ala Pro Asp Glu Glu Asp Asn Tyr Ile
 305 310 315 320
 Gly Pro Met Ala Arg Phe Asp Leu Arg Asp Glu Leu His Gln Gln Val
 325 330 335
 Gln Ala Thr Leu Ala Glu Gly Ala Thr Leu Leu Gly Gly Glu Lys
 340 345 350
 Leu Ala Gly Ser Gly Asn Tyr Tyr Ala Pro Thr Val Leu Gly Gly Val
 355 360 365
 Thr Pro Gln Met Thr Ala Phe Arg Gln Glu Leu Phe Gly Pro Val Ala
 370 375 380
 Ala Ile Thr Val Ala Asn Asp Ala Ala His Ala Leu Gln Leu Ala Asn
 385 390 395 400
 Asp Ser Asp Phe Gly Leu Ser Ala Thr Val Phe Thr Ala Asn Asp Ala
 405 410 415
 Leu Ala Glu Thr Phe Ser Arg Glu Leu Glu Cys Gly Gly Val Phe Ile
 420 425 430
 Asn Gly Tyr Ser Ala Ser Asp Ala Arg Val Ala Phe Gly Gly Val Lys

435 440 445
 Lys Ser Gly Phe Gly Arg Glu Leu Ser His Phe Gly Leu His Glu Phe
 450 455 460
 Cys Asn Val Gln Thr Val Trp Lys Asp Arg Ile
 465 470 475

<210> 9092
 <211> 316
 <212> PRT
 <213> Enterobacter cloacae

<400> 9092
 Pro Glu Gly Lys Glu Gln Ser Val Ala Ala Val Ile His Asn Glu Met
 1 5 10 15
 Leu Asp Glu Ile Leu Ala Gln Val Arg Pro Leu Leu Gly Gln Gly Lys
 20 25 30
 Val Ala Asp Tyr Ile Pro Ala Leu Ala Ser Ile Ser Gly Asn Lys Leu
 35 40 45
 Gly Ile Ala Ile Cys Thr Val Asp Gly Gln Arg Phe Gln Ala Gly Asp
 50 55 60
 Ala Leu Glu Arg Phe Ser Ile Gln Ser Ile Ser Lys Val Leu Ser Leu
 65 70 75 80
 Val Ala Ala Met Arg Gln Tyr Asp Glu Gln Glu Ile Trp Gln Arg Val
 85 90 95
 Gly Lys Asp Pro Ser Gly Gln Pro Phe Asn Ser Leu Leu Gln Leu Glu
 100 105 110
 Ile Glu Gln Gly Lys Pro Arg Asn Pro Phe Ile Asn Ala Gly Ala Leu
 115 120 125
 Val Val Cys Asp Met Leu Gln Ser Arg Leu Ser Ala Pro Arg Gln Arg
 130 135 140
 Met Leu Gln Ile Val Arg Gln Leu Ser Gly Met Gln Asp Ile Gly Tyr
 145 150 155 160
 Asp Pro Val Val Ala Arg Ser Glu Phe Glu His Ser Ala Arg Asn Ala
 165 170 175
 Ala Ile Ala Trp Leu Met Lys Ser Phe Gly Asn Phe His Asn Asp Val
 180 185 190
 Ala Thr Val Leu Gln Asn Tyr Phe His Tyr Cys Ala Leu Lys Met Asn
 195 200 205
 Cys Val Glu Leu Ala Gln Thr Phe Leu Phe Leu Ala His Gln Gly His
 210 215 220
 Ala Pro His Leu Gly Glu Asp Val Val Ser Pro Met Gln Ala Arg Gln
 225 230 235 240
 Ile Asn Ala Leu Met Ala Thr Ser Gly Met Tyr Gln Asn Ala Gly Glu
 245 250 255
 Phe Ala Trp Arg Val Gly Leu Pro Ala Lys Ser Gly Val Gly Gly Gly
 260 265 270
 Val Val Ala Ile Val Pro His Glu Met Ala Ile Ala Val Trp Ser Pro
 275 280 285
 Glu Leu Asp Glu Thr Gly Asn Ser Leu Ala Gly Val Ala Ala Leu Glu
 290 295 300
 Gln Leu Thr Lys Arg Leu Gly Arg Ser Val Tyr
 305 310 315

<210> 9093
 <211> 329
 <212> PRT
 <213> Enterobacter cloacae

<400> 9093
 Cys Ser Ala Ser Gly Asp Val Met Lys Ala Pro Gln Ile Pro Val Asn
 1 5 10 15

Glu Ala Glu Arg Met Asn Ala Leu Arg Glu Ser Gly Leu Leu Glu Ile
 20 25 30
 Asp Asn Tyr Pro Ala Phe Asp Arg Leu Thr Arg Leu Ala Thr Arg Phe
 35 40 45
 Phe Arg Val Pro Leu Ala Met Ile Thr Leu Val Asp Asp His Ala Ala
 50 55 60
 Ile Val Lys Ser Ala Asp Gly Arg Ala Leu Ala Ser Gln Pro Arg Asp
 65 70 75 80
 Leu Ser Phe Cys Gly His Thr Ile Leu Gly Asp Ala Pro Leu Val Val
 85 90 95
 Ser Asp Thr Leu Leu Asp Glu Arg Phe Ala Asp Asn Pro Gln Val Ala
 100 105 110
 Gly Asp Pro Gly Val Arg Phe Tyr Ala Gly Phe Pro Leu Arg Leu Arg
 115 120 125
 Asp Gly Ala Cys Val Gly Ser Leu Cys Leu Ile Asp Tyr Ala Pro Arg
 130 135 140
 Glu Phe Thr Ala Ala Asp Ala Ala Val Leu Ala Asp Leu Ser Ala Leu
 145 150 155 160
 Ala Glu Asp Glu Phe Ala Ala Val Ser Ala Ala Thr Thr Asp Glu Leu
 165 170 175
 Thr Gly Leu Phe Asn Arg Arg Gly Phe Asn Gln Phe Ala Gln Phe Ala
 180 185 190
 Leu Ser Val Ser Gln Arg Arg Ala Glu Pro Leu Thr Leu Gly Trp Leu
 195 200 205
 Asp Leu Asp His Phe Lys Thr Ile Asn Asp Arg Phe Gly His Gln Glu
 210 215 220
 Gly Asp Lys Ala Leu Lys Ala Met Ala Ala Leu Met Arg Ser Ser Phe
 225 230 235 240
 Arg Glu Ala Asp Leu Leu Val Arg Phe Gly Gly Asp Glu Phe Ala Val
 245 250 255
 Leu Phe Ala Asp Thr Asp Glu Pro Gly Ala Trp Ile Ala Met Gln Tyr
 260 265 270
 Leu Val Glu Gln Thr Glu Lys Tyr Asn Ala Arg Gln Leu His Pro Trp
 275 280 285
 Ser Leu Gln Phe Ser Trp Gly Leu Ser Glu Phe Asp His His Arg Asn
 290 295 300
 Asp Ile Gln Ala Trp Leu Lys His Ala Asp Ala Gln Met Tyr Ala Met
 305 310 315 320
 Lys Arg Gln His His Gly Glu Lys
 325

<210> 9094

<211> 488

<212> PRT

<213> *Enterobacter cloacae*

<400> 9094

Arg Thr Ser Ile Val Asn Thr Leu Asn Arg Arg Asp Phe Pro Gly Ala
 1 5 10 15
 Cys Tyr Pro Glu Arg Ile Ile Gln Phe Gly Glu Gly Asn Phe Leu Arg
 20 25 30
 Ala Phe Val Asp Trp Gln Ile Asp Leu Leu Asn Glu His Thr Asp Leu
 35 40 45
 Asn Ala Gly Val Val Ile Val Arg Pro Ile Gln Ser Asp Phe Pro Pro
 50 55 60
 Ser Leu Ser Thr Gln Asp Gly Leu Tyr Thr Thr Ile Ile Arg Gly Leu
 65 70 75 80
 Asn Glu Gln Gly Glu Ala Val Ser Asp Ala Arg Leu Ile Arg Ser Val
 85 90 95
 Asn Arg Glu Ile Ser Val Tyr Ser Gln Tyr Asp Glu Phe Leu Ala Leu
 100 105 110

Ala His Asn Pro Asp Met Arg Phe Val Phe Ser Asn Thr Thr Glu Ala
 115 120 125
 Gly Ile Ser Tyr His Ala Gly Asp Lys Leu Asp Asp Ala Pro Ala Ala
 130 135 140
 Ser Tyr Pro Ala Lys Leu Thr Arg Leu Leu Phe Glu Arg Phe Thr His
 145 150 155 160
 Phe Asn Gly Ala Ala Asp Lys Gly Trp Ile Ile Pro Cys Glu Leu
 165 170 175
 Ile Asp Tyr Asn Gly Asp Ala Leu Arg Glu Leu Val Leu Arg Tyr Ala
 180 185 190
 Gln Glu Trp Ala Leu Pro Ala Ala Phe Ile Ala Trp Leu Asn Asp Ala
 195 200 205
 Asn Thr Phe Cys Ser Thr Leu Val Asp Arg Ile Val Thr Gly Tyr Pro
 210 215 220
 Arg Asp Glu Val Ala Glu Leu Glu Ala Gly Leu Gly Tyr His Asp Ser
 225 230 235 240
 Phe Leu Asp Thr Ala Glu His Phe Tyr Leu Phe Val Ile Gln Gly Pro
 245 250 255
 Lys Ser Leu Ala Ala Glu Leu Arg Leu Asp Lys Tyr Pro Leu Asn Val
 260 265 270
 Leu Ile Val Asp Asp Ile Lys Pro Tyr Lys Glu Arg Lys Val Ala Ile
 275 280 285
 Leu Asn Gly Ala His Thr Ala Leu Val Pro Val Ala Phe Gln Ala Gly
 290 295 300
 Leu Asp Thr Val Gly Glu Ala Met Asn Asp Ala Glu Ile Cys Ala Phe
 305 310 315 320
 Val Glu Lys Ala Ile Tyr Glu Glu Ile Ile Pro Val Leu Asp Leu Pro
 325 330 335
 Arg Asp Glu Leu His Ser Phe Ala Ser Ala Val Thr Gly Arg Phe Arg
 340 345 350
 Asn Pro Tyr Ile Lys His Gln Leu Leu Ser Ile Ala Leu Asn Gly Met
 355 360 365
 Thr Lys Tyr Arg Thr Arg Ile Leu Pro Gln Leu Leu Ala Gly Gln Lys
 370 375 380
 Ala Thr Gly Lys Leu Pro Ala Arg Leu Thr Phe Ala Leu Ala Ala Leu
 385 390 395 400
 Ile Ala Phe Tyr Arg Ala Glu Arg Asn Gly Glu Arg Tyr Pro Val Gln
 405 410 415
 Asp Asp Ala His Trp Leu Glu Arg Tyr Gln Gln Leu Trp Thr Gln His
 420 425 430
 His Asp Lys Gln Val Thr Thr Arg Glu Leu Val Ser Ser Val Leu Ser
 435 440 445
 Val Ser Glu His Trp Glu Gln Asp Leu Thr Leu Val Asn Gly Leu Val
 450 455 460
 Lys His Val Ala Leu Asp Leu Asp Ala Ile Leu Ser Lys Gly Met Arg
 465 470 475 480
 Asp Ala Val Lys Pro Leu Cys
 485

<210> 9095

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 9095

Gly Gly Ser Arg Leu Ile Ala Ala Leu Phe Thr Phe Leu Lys Leu Ile
 1 5 10 15
 Met Ile Val Arg Leu Gln Gln His Trp Leu Gln Leu Ile Phe Val Trp
 20 25 30
 His Gly Ser Val Leu Pro Lys Ile Tyr Thr Arg Leu Leu Asn Phe
 35 40 45

Leu Leu Ser Ile Ala Val Ile Val Met Leu Pro Trp Tyr Thr Ser Leu
 50 55 60
 Gly Ile Arg Phe Thr Val Ala Pro Phe Ser Ile Leu Gly Val Ala Ile
 65 70 75 80
 Ala Ile Phe Leu Gly Phe Arg Asn Asn Ala Cys Tyr Ser Arg Tyr Val
 85 90 95
 Glu Ala Arg Leu Leu Trp Gly Gln Leu Met Ile Ala Ala Arg Ser Leu
 100 105 110
 Phe Arg Glu Val Lys Asn Thr Leu Pro Asp Asp Lys His Leu Gly Glu
 115 120 125
 Phe Val Arg Leu Gln Ile Ala Phe Ala Asn Cys Leu Arg Met Thr Leu
 130 135 140
 Arg Arg Glu Thr Asn Ala Asp Gln Leu Ser Arg Tyr Leu Ala Pro Asp
 145 150 155 160
 Asp Leu Arg Lys Val Met Asp Ala Asn Ser Pro Ala Asn Arg Ile Leu
 165 170 175
 Leu Ile Met Gly Glu Trp Leu Ala Val Arg Arg Arg Ser Gly His Leu
 180 185 190
 Ser Asp Ile Leu Phe His Ser Leu Asn Asn Arg Leu Asn Asp Met Ser
 195 200 205
 Ile Val Leu Ala Gly Cys Glu Arg Ile Ala Asn Thr Pro Val Pro Phe
 210 215 220
 Ala Tyr Thr Leu Ile Leu His Arg Thr Val Tyr Leu Phe Cys Ile Met
 225 230 235 240
 Leu Pro Phe Ala Leu Val Val Asp Leu His Tyr Met Thr Pro Phe Val
 245 250 255
 Ser Ala Leu Ile Ser Tyr Thr Phe Ile Ser Leu Asp Thr Leu Ala Glu
 260 265 270
 Glu Leu Glu Asp Pro Phe Gly Thr Glu Asp Asn Asp Leu Pro Leu Asp
 275 280 285
 Ala Ile Cys Asn Met Met Glu Arg Asp Leu Leu Gln Met Asn Asp Glu
 290 295 300
 Glu Asn Ile Pro Glu Arg Leu Met Pro Asp Lys His Tyr Gln Leu Thr
 305 310 315 320

<210> 9096

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 9096

Met Thr Leu Trp Pro Arg Thr Leu Leu Ala Arg Leu Leu Ile Ile Val
 1 5 10 15
 Leu Leu Gly Leu Leu Leu Ala Asn Ala Leu Ser Leu Thr Leu Val Met
 20 25 30
 Val Glu Arg Met His Ser Ala Arg Thr Val Met Leu Gly Asn Leu Glu
 35 40 45
 Asn Asp Val Ala Thr Ser Val Ala Ile Leu Asp Arg Leu Pro Gly Lys
 50 55 60
 Glu Arg Pro Glu Trp Leu Glu Arg Leu Ser Arg Gly Asn Tyr Arg Tyr
 65 70 75 80
 Ile Leu Gly Pro Gly Glu Ala Gly Ala Ala Pro Thr Asp Lys Arg Ser
 85 90 95
 Arg Asp Ala Ile Arg Thr Leu Lys Glu Thr Leu Ser Ala Gln Tyr Pro
 100 105 110
 Leu Gln Phe Thr Ala Val Pro Gly Pro Ile Ser His Ile Gln Ala His
 115 120 125
 Leu Thr Leu Arg Asp Gly Ala Pro Leu Thr Ile Asp Leu Ile Pro Arg
 130 135 140

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Met Pro Pro Val Ala Ser Trp Leu Pro Val Val Leu Val Leu Gln Leu
145          150          155          160
Leu Leu Val Ala Leu Cys Ser Trp Ile Ala Val Arg Gln Val Val Arg
          165          170          175
Pro Phe Leu Gln Phe Thr Arg Ala Val Asp Ser Leu Asp Pro Ala Ala
          180          185          190
His Ser Pro Met Thr Glu Lys Gly Pro Val Glu Val Arg Gln Ala Ala
          195          200          205
His Ala Phe Asn Glu Met Gln Ser Arg Ile Gln Thr Tyr Leu Arg Glu
          210          215          220
Arg Ala Gln Ile Leu Ala Ser Ile Ser His Asp Leu Gln Thr Pro Ile
225          230          235          240
Thr Arg Met Lys Leu Arg Ile Glu Met Ala Asp Gln Pro Glu Leu Arg
          245          250          255
Asp Lys Leu Leu Ser Asp Leu Asp Asn Met Ser Arg Leu Val Arg Glu
          260          265          270
Gly Ile Ala Tyr Ala Arg Ser Ser Glu Ser Leu Glu Glu Thr Thr Leu
          275          280          285
Lys Leu Glu Leu Asn Ala Trp Val Asn Ser Ile Ala Ser Asp Tyr Gln
          290          295          300
Asp Ile Gly Lys Asn Val Gln Phe His Ala Arg Asn Ala Arg Leu Pro
305          310          315          320
Ile Val Thr Arg Pro Gln Ala Leu Arg Arg Val Met Thr Asn Leu Leu
          325          330          335
Asp Asn Ala Leu Lys Phe Gly Asp Ser Ala Val Ile Glu Ile Asp Glu
          340          345          350
Asp Glu Arg Gln Val Ala Ile Arg Ile Met Asp Asn Gly Pro Gly Ile
          355          360          365
Pro Glu Ala Glu Leu Glu Ala Val Leu Gln Pro Phe Tyr Arg Val Glu
          370          375          380
Thr Ser Arg Asn Arg Glu Thr Gly Gly Thr Gly Leu Gly Leu Ala Ile
385          390          395          400
Ala Ala Gln Leu Thr Ala Gln Leu Asp Gly Lys Leu His Ile Ala Asn
          405          410          415
Arg Ala Glu Gly Gly Leu Ala Val Ser Val Thr Leu Pro Arg Gly
          420          425          430

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<210> 9097

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 9097

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Leu Tyr Ala Cys Val Ser Ala Pro Arg Ala Asp Thr Gln Ala Asp Lys
1          5          10          15
Ile Gln Leu Phe Ala His Gly Leu Asn Thr Phe Val Arg Ser Asn Asn
          20          25          30
Leu Thr Ala Pro Ser Gln Gln Pro Tyr Arg Glu Val Val Met Phe Leu
          35          40          45
Ile Ile Ala Phe Leu Gly Gly Met Ile Ser Leu Leu Ser Pro Cys Thr
          50          55          60
Leu Pro Val Ile Pro Leu Leu Phe Ala Gly Phe Gln Gly Gln Arg Lys
65          70          75          80
His Ile Leu Ala Leu Leu Ser Gly Met Ile Val Met Phe Thr Leu Val
          85          90          95
Ala Met Val Val Thr Val Ala Ser Glu Trp Ile Ala Asp Ala Thr Val
          100          105          110
Ile Gly Arg Trp Ile Ala Leu Leu Ile Leu Ser Ile Ala Ala Leu Ala
          115          120          125
Leu Phe Phe Pro Gln Phe Ala Gln Arg Ile Ala Arg Pro Ala Val Ser
          130          135          140

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Ala Gly Asn Val Leu Asn Thr His Ser Val Gln Arg Arg Gly Leu Val
 145 150 155 160
 Ser Ala Phe Leu Ala Gly Leu Ala Val Gly Leu Leu Trp Ser Pro Cys
 165 170 175
 Ala Gly Pro Ile Leu Gly Ala Ile Phe Ser Ile Asn Ile Ala Gly His
 180 185 190
 Ser Ala Ile Ala Thr Gly Ala Leu Leu Ala Ala Tyr Gly Ser Gly Cys
 195 200 205
 Ala Leu Met Leu Gly Leu Leu Val Ala Gly Gly Arg Lys Leu Ile Thr
 210 215 220
 Pro Leu Arg Val Lys Ser Ala Leu Met Ala Arg Leu Arg Gln Gly Ala
 225 230 235 240
 Gly Val Met Met Leu Ala Ala Val Ala Phe Asn Ala Ser Gly Met Thr
 245 250 255
 Ser Ala Leu Lys Gly Ala Asn Gly Ile Ala Asp Gln Leu Gly Asn Ala
 260 265 270
 Leu Leu Ser Leu Ala Gln Pro Ser Ser Thr Gln Val Lys Leu Gln Pro
 275 280 285
 Val Ala Asp Ala Thr Pro Ser Ser Gln Leu Pro Ser Leu Ser Gly Gly
 290 295 300
 Thr Gly Trp Val Asn Gly Asp Pro Val Thr Ser Glu Ala Leu Arg Gly
 305 310 315 320
 Lys Val Val Leu Ile Asp Phe Trp Thr Trp Asp Cys Ile Asn Cys Gln
 325 330 335
 His Thr Leu Pro His Val Arg Asp Trp Ala Lys Lys Tyr Glu Ser Gln
 340 345 350
 Gly Leu Val Val Ile Gly Val His Thr Pro Glu Tyr Pro Trp Glu Lys
 355 360 365
 Pro Leu Ser Ser Val Lys Asn Ala Val Asn Lys Trp Gln Leu Pro Tyr
 370 375 380
 Arg Val Val Thr Asp Asn Asn Tyr Lys Ile Trp Ser Ala Phe Gly Asn
 385 390 395 400
 Gln Tyr Trp Pro Ala His Tyr Tyr Phe Asp Ala Lys Gly Gln Leu Arg
 405 410 415
 Tyr Thr Ala Phe Gly Glu Gly Asn Tyr Asp Lys Gln Glu Ala Val Ile
 420 425 430
 Gln Gln Leu Leu Lys Glu Ala Arg Ser
 435 440

<210> 9098

<211> 658

<212> PRT

<213> Enterobacter cloacae

<400> 9098

Arg Arg Ser Met Arg Leu His Ser His His Leu Glu Leu Leu Ser Pro
 1 5 10 15
 Ala Arg Asp Ala Ala Ile Ala Arg Glu Ala Ile Leu His Gly Ala Asp
 20 25 30
 Ala Val Tyr Ile.Gly Gly Pro Gly Phe Gly Ala Arg His Asn Ala Ser
 35 40 45
 Asn Ser Leu Arg Asp Ile Ala Glu Leu Val Pro Phe Ala His Arg Phe
 50 55 60
 Gly Ala Lys Val Phe Val Thr Leu Asn Thr Ile Leu His Asp Asp Glu
 65 70 75 80
 Leu Glu Pro Ala Gln Arg Leu Ile Thr Asp Leu Tyr Gln Thr Gly Val
 85 90 95
 Asp Ala Leu Ile Val Gln Asp Met Gly Val Leu Glu Leu Asp Ile Pro
 100 105 110
 Pro Ile Glu Leu His Ala Ser Thr Gln Cys Asp Ile Arg Thr Val Glu
 115 120 125

Lys Ala Lys Phe Leu Ser Asp Val Gly Phe Thr Gln Ile Val Leu Ala
 130 135 140
 Arg Glu Leu Asn Leu Asn Gln Ile Arg Asp Ile His Gln Ala Thr Asp
 145 150 155 160
 Ala Thr Ile Glu Phe Phe Ile His Gly Ala Leu Cys Val Ala Tyr Ser
 165 170 175
 Gly Gln Cys Asn Ile Ser His Ala Gln Thr Gly Arg Ser Ala Asn Arg
 180 185 190
 Gly Asp Cys Ser Gln Ala Cys Arg Leu Pro Tyr Thr Leu Lys Asp Asp
 195 200 205
 Gln Gly Arg Val Val Ala Phe Glu Lys His Leu Leu Ser Met Lys Asp
 210 215 220
 Asn Asp Gln Thr Ala Asn Leu Gly Ala Leu Ile Asp Ala Gly Val Arg
 225 230 235 240
 Ser Phe Lys Ile Glu Gly Arg Tyr Lys Asp Met Ser Tyr Val Lys Asn
 245 250 255
 Ile Thr Ala His Tyr Arg Gln Met Leu Asp Ala Ile Ile Asp Asp Arg
 260 265 270
 Gly Asp Leu Ala Arg Val Ser Ala Gly Arg Thr Glu His Phe Phe Ile
 275 280 285
 Pro Ser Thr Asp Lys Thr Phe His Arg Gly Ser Thr Asp Tyr Phe Val
 290 295 300
 Asn Ala Arg Lys Gly Asp Ile Gly Ala Phe Asp Ser Pro Lys Phe Ile
 305 310 315 320
 Gly Leu Pro Val Gly Glu Val Leu Lys Val Ala Lys Asp His Leu Asp
 325 330 335
 Val Gln Val Thr Glu Pro Leu Ala Asn Gly Asp Gly Leu Asn Val Met
 340 345 350
 Ile Lys Arg Glu Val Val Gly Phe Arg Ala Asn Thr Val Glu Lys Thr
 355 360 365
 Gly Glu Asn Arg Tyr Arg Val Trp Pro Asn Glu Met Pro Ala Asp Leu
 370 375 380
 Tyr Lys Ala Arg Pro Asn Ala Ala Leu Asn Arg Asn Leu Asp His Asn
 385 390 395 400
 Trp Gln Gln Ala Leu Leu Lys Thr Ser Ser Glu Arg Arg Ile Ala Val
 405 410 415
 Asp Ile Ala Leu Gly Gly Trp Glu Glu Gln Leu Ile Leu Thr Met Thr
 420 425 430
 Cys Glu Asp Gly Ile Ser Val Thr His Thr Leu Asp Gly Leu Phe Glu
 435 440 445
 Val Ala Asn Asn Ala Glu Lys Ala Leu Asn Asn Leu Lys Asp Gly Val
 450 455 460
 Ala Lys Leu Gly Gln Thr Ile Tyr Tyr Ala Arg Asn Ile Glu Val Asn
 465 470 475 480
 Leu Pro Asp Ala Leu Phe Val Pro Asn Ser Leu Leu Asn Gln Phe Arg
 485 490 495
 Arg Glu Thr Ala Glu Met Leu Asp Glu Val Arg Leu Ala Asn Tyr Ser
 500 505 510
 Arg Gly Ser Arg Lys Ala Glu Ala Val Pro Ala Pro Val Tyr Pro Asp
 515 520 525
 Thr His Leu Ser Phe Leu Ala Asn Val Tyr Asn His Lys Ala Arg Ala
 530 535 540
 Phe Tyr His Arg His Gly Val Gln Leu Ile Asp Ala Ala Tyr Glu Ala
 545 550 555 560
 His Glu Glu Lys Gly Asp Val Pro Val Met Ile Thr Lys His Cys Leu
 565 570 575
 Arg Phe Ala Phe Asn Leu Cys Pro Lys Gln Ala Lys Gly Asn Ile Lys
 580 585 590
 Ser Trp Lys Ala Thr Pro Met Gln Leu Val Asn Gly Asp Glu Val Leu
 595 600 605
 Thr Leu Lys Phe Asp Cys Arg Pro Cys Glu Met His Val Ile Gly Lys

610
 Met Lys Asn His Ile Phe Lys Met Pro Pro Pro Gly Ser Ile Val Ala
 625 630 635 640
 Ser Val Ser Pro Asp Asp Leu Met Lys Thr Leu Pro Lys Arg Lys Gly
 645 650 655
 Ser

<210> 9099
 <211> 140
 <212> PRT
 <213> Enterobacter cloacae

<400> 9099
 Gly Arg Phe Met Ser Tyr Val Thr Glu Phe Pro Ala Ala Glu Pro Gln
 1 5 10 15
 Glu Ala Val Gly His Phe Leu Arg Arg Leu Ser Val Glu Thr Asp Cys
 20 25 30
 Ala Asp Val His His Ala Val Ser Ser Gly Glu Gln Asp Phe Val Leu
 35 40 45
 Leu His Val Val Gly Lys Pro Glu His Phe Ala Arg Arg His Leu Pro
 50 55 60
 Gly Ala Leu His Leu Pro Trp Ser Gln Ile Thr Ala Glu Arg Met Thr
 65 70 75 80
 Ala Trp Pro Glu Gly Thr Leu Phe Val Val Tyr Cys Ala Gly Pro His
 85 90 95
 Cys Asn Gly Ala Asp Arg Ala Ala Leu Lys Leu Ala Arg Leu Gly Leu
 100 105 110
 Pro Val Lys Ile Met Leu Gly Gly Met Thr Gly Trp Glu Asp Glu Arg
 115 120 125
 Phe Ala Phe Ala Gly Ser Ser Ser Pro Ala Leu
 130 135 140

<210> 9100
 <211> 376
 <212> PRT
 <213> Enterobacter cloacae

<400> 9100
 Arg Arg Gln Thr Glu Glu Ile Ser Met Gln Arg His His Ala Pro Tyr
 1 5 10 15
 Arg Ala Asp Val Val Gly Ser Phe Leu Arg Pro Asp Ser Val Lys Gln
 20 25 30
 Ala Arg Leu Gln Phe Ala Ser Gly Glu Ile Asp Ala Gly Gln Leu Arg
 35 40 45
 Ala Val Glu Asp Glu Ala Ile Arg His Val Val Glu Gln Cys Ala
 50 55 60
 Cys Gly Leu His Val Val Thr Asp Gly Glu Phe Arg Arg Ala Trp Trp
 65 70 75 80
 His Phe Asp Phe Phe Asp Gly Leu Gln Gly Val Glu Arg Tyr Asp Ser
 85 90 95
 Gln Gln Gly Ile Gln Phe Asn Gly Val Gln Thr Lys Ala His Gly Val
 100 105 110
 Arg Val Thr Gly Lys Leu Gly Phe Gly Asp His Pro Met Leu Glu Asp
 115 120 125
 Phe Arg Tyr Leu Lys Ser Ile Ser Gly Asn Ala Gln Pro Lys Met Thr
 130 135 140
 Ile Pro Ser Pro Ser Val Leu His Phe Arg Gly Gly Arg Lys Asp Ile
 145 150 155 160
 Asp Ala Thr Val Tyr Pro Asp Leu Lys Asp Tyr Phe Asp Asp Leu Ala
 165 170 175

Thr Thr Trp Arg Asp Ala Ile Arg Ala Phe Tyr Asp Ala Gly Cys Arg
 180 185 190
 Tyr Leu Gln Leu Asp Asp Thr Val Trp Ala Tyr Leu Cys Ser Glu Asp
 195 200 205
 Gln Arg Arg Gln Ile Arg Glu Arg Gly Asp Asp Ala Asp Glu Leu Ala
 210 215 220
 Arg Thr Tyr Ala Arg Val Leu Asn Lys Ala Leu Glu Gly Lys Pro Asp
 225 230 235 240
 Asp Leu Thr Ile Gly Leu His Val Cys Arg Gly Asn Phe Arg Ser Thr
 245 250 255
 Trp Ile Ser Glu Gly Gly Tyr Glu Pro Val Ala Glu Val Leu Phe Gly
 260 265 270
 Thr Val Asn Val Asp Ala Phe Phe Leu Glu Tyr Asp Asn Asp Arg Ser
 275 280 285
 Gly Asp Phe Ala Pro Leu Arg Phe Val Arg Pro Gly Lys Gln Gln Val
 290 295 300
 Val Leu Gly Leu Ile Thr Thr Lys His Gly Glu Leu Glu Asn Pro Glu
 305 310 315 320
 Gly Val Lys Ala Arg Leu Glu Glu Ala Ala Arg Tyr Val Ala Lys Glu
 325 330 335
 Gln Ile Cys Leu Ser Pro Gln Cys Gly Phe Ala Ser Thr Glu Glu Gly
 340 345 350
 Asn Ser Leu Ser Glu Ala Gln Gln Trp Asp Lys Ile Arg Leu Val Thr
 355 360 365
 Gln Ile Ala Ser Asp Val Trp
 370 375

<210> 9101

<211> 538

<212> PRT

<213> *Enterobacter cloacae*

<400> 9101

Lys Pro Pro Ala Thr Lys Pro Pro Pro Gly Arg Asp Val Met Asn Ala
 1 5 10 15
 Ile Arg Met Met Ile Ala Ile Val Trp Leu Thr Gly Leu Leu Pro Gly
 20 25 30
 Met Ala Gln Ala Ser Asp Ala Asp Asp Phe Val Ala Ala Ser Arg Ser
 35 40 45
 Gln Gln Thr Ala Met Leu Thr Arg Trp Ala Ala Thr Pro Glu Pro Ala
 50 55 60
 Arg Leu Pro Leu Leu Lys Ala Leu Gln Gln Glu Asn Leu Tyr Thr Asp
 65 70 75 80
 Ser Gln Lys Lys Ala Phe Thr Arg Ile Asp Gly Glu Met Val Ala Leu
 85 90 95
 Gly Ala Ala Lys Ser Ala Glu Gly Thr Thr Lys Ala Val Arg Leu Thr
 100 105 110
 Asn Arg Leu Arg Val Leu Thr Val Thr Ala Leu Ala Thr His Gln Leu
 115 120 125
 Val Ser Asp Ser Val Thr Glu Arg Arg His Ala Ala Arg Gln Leu Gln
 130 135 140
 Arg Asp Ala Gln Pro Asp Met Leu Gly Phe Leu Gln Gln Arg Ala Asn
 145 150 155 160
 Arg Glu Thr Asp Asp Ile Thr Arg Gln Ser Leu Arg Leu Ala Leu Ala
 165 170 175
 Asn Leu Gln Leu Ala Ser Pro Gln Ala Glu Thr Arg Leu Asn Ala Val
 180 185 190
 Glu Leu Leu Gly Gln Ser Asp Asp Pro Asp Val Gln Ala Thr Leu Thr
 195 200 205
 Pro Phe Thr Arg Ala Gln Thr Glu Pro Asp Ala Arg Val Arg Ala Ala
 210 215 220

Ala Ala Glu Ser Leu Asp Arg Ile Gln His Arg Leu Met Trp Gly Glu
 225 230 235 240
 Leu Leu Gly Gln Ala Phe Met Gly Leu Ser Leu Gly Ser Val Leu Leu
 245 250 255
 Leu Ala Ala Leu Gly Leu Ala Ile Thr Tyr Gly Leu Leu Gly Val Ile
 260 265 270
 Asn Met Ala His Gly Glu Met Leu Met Leu Gly Ala Tyr Ala Thr Trp
 275 280 285
 Met Val Gln Gln Val Met Ala Gln Trp Met Pro Gln Trp Leu Ala Leu
 290 295 300
 Tyr Pro Val Val Ala Leu Pro Val Ala Phe Cys Leu Thr Ala Gly Ile
 305 310 315 320
 Gly Met Val Leu Glu Arg Thr Val Ile Arg His Leu Tyr Gly Arg Pro
 325 330 335
 Leu Glu Thr Leu Leu Ala Thr Trp Gly Ile Ser Leu Met Leu Ile Gln
 340 345 350
 Leu Val Arg Met Thr Phe Gly Ala Gln Asn Leu Glu Val Ala Asn Pro
 355 360 365
 Ala Trp Leu Ser Gly Gly Val Gln Val Phe Ala Asn Leu Thr Leu Pro
 370 375 380
 Trp Asn Arg Ile Val Val Leu Gly Phe Val Leu Met Val Leu Phe Phe
 385 390 395 400
 Thr Trp Leu Ile Leu Asn Lys Thr Arg Leu Gly Leu Asn Val Arg Ala
 405 410 415
 Val Thr Gln Asn Arg Ser Met Ala Ala Cys Gly Val Pro Thr Gly
 420 425 430
 Arg Val Asp Met Leu Ala Phe Gly Leu Gly Ser Gly Ile Ala Gly Leu
 435 440 445
 Gly Gly Val Ala Leu Ser Gln Leu Gly Asn Val Gly Pro Glu Leu Gly
 450 455 460
 Gln Gly Tyr Ile Ile Asp Ser Phe Leu Val Val Leu Gly Gly Val
 465 470 475 480
 Gly Gln Leu Ala Gly Ser Val Ala Ala Phe Gly Leu Gly Ile Phe
 485 490 495
 Asn Lys Ile Leu Glu Pro Gln Met Gly Ala Val Leu Gly Lys Ile Leu
 500 505 510
 Ile Leu Val Ala Ile Ile Leu Phe Ile Gln Lys Arg Pro Gln Gly Leu
 515 520 525
 Phe Ala Leu Lys Gly Arg Val Thr Asp
 530 535

<210> 9102

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 9102

Tyr Asn Ile Pro Val Leu Ile Lys Arg Asn Glu Asp Phe Ala Val Ala
 1 5 10 15
 Ala Gln Pro Gly Lys Ile Ala Leu Thr Leu Gly Thr Leu Leu Val Ser
 20 25 30
 Gly Ser Leu Phe Ala His Ser His Gly His Gln Met Thr Glu Ala Glu
 35 40 45
 Gln Lys Ala Ala Asn Gly Val Phe Glu Asp Lys Asp Val Arg Asp Arg
 50 55 60
 Lys Leu Ser Asp Trp Asp Gly Thr Trp Gln Ser Val Tyr Pro Phe Leu
 65 70 75 80
 Leu Asp Gly Ser Leu Asp Pro Val Phe Glu Lys Lys Ala Gln Lys Gly
 85 90 95
 Glu Lys Ser Ala Ala Glu Val Lys Ala Tyr Tyr Arg Lys Gly Tyr Ala
 100 105 110

Thr Asp Val Asp Ala Ile Gly Ile Glu Asn Asn Val Met Glu Phe His
 115 120
 Arg Gly Lys Thr Val Ser Ser Cys Arg Tyr Asp Tyr Ser Gly Tyr Lys
 130 135
 Ile Leu Thr Tyr Ala Ser Gly Lys Lys Gly Val Arg Tyr Leu Phe Glu
 145 150 155
 Cys Lys Asp Asn Ala Ser Glu Ala Pro Lys Phe Val Gln Phe Ser Asp
 165 170 175
 His Ile Ile Gly Pro Lys Ala Ser Ser His Phe His Ile Phe Met Gly
 180 185 190
 Asn Thr Ser His Glu Ala Leu Leu Lys Glu Met Asp Asn Trp Pro Thr
 195 200 205
 Tyr Tyr Pro Asn Glu Met Tyr Lys Glu Gln Val Val Glu Glu Met Leu
 210 215 220
 His His
 225

<210> 9103

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 9103

Glu Glu Pro Thr Met Gln Glu Ile Asp Phe Tyr Leu Val Asp Ala Phe
 1 5 10 15
 Ser Asp Arg Ala Phe Gly Gly Asn Ala Ala Val Cys Pro Leu Glu
 20 25 30
 Ala Trp Leu Pro Asp Glu Thr Leu Leu Lys Met Ala Lys Gln His Asn
 35 40 45
 Gln Ser Glu Thr Ala Phe Phe Val Arg Thr Asp Asn Gly Phe Glu Leu
 50 55 60
 Arg Trp Phe Thr Thr Gln Asp Glu Ile Asn Leu Cys Gly His Ala Thr
 65 70 75 80
 Leu Ala Ala Ser His Val Ile Phe Glu Tyr Leu Asp Tyr Pro His Thr
 85 90 95
 Glu Ile Thr Phe Thr Thr Arg Phe Val Gly Glu Leu Thr Val Gln Arg
 100 105 110
 Ser Gly Asp Trp Leu Thr Leu Asn Phe Pro Ala Trp Ser Thr Glu Val
 115 120 125
 Val Asp Thr Pro Pro Pro Val Leu Phe Ser Ala Leu Gly Ile Asn Ala
 130 135 140
 Ala Asn Glu Val Arg Val Gly Arg Asp Tyr Met Val Val Leu Asp Ser
 145 150 155 160
 Gln Arg Gln Val Glu Ala Leu Thr Pro Asp Ile Thr Ala Met Leu Pro
 165 170 175
 Leu Gly Lys Met Val Cys Val Thr Ala Pro Gly Asp Glu Tyr Asp Phe
 180 185 190
 Val Ser Arg Phe Phe Cys Pro Gly Glu Gly Val Pro Glu Asp Pro Val
 195 200 205
 Thr Gly Ser Ala His Ser Met Leu Ile Pro Tyr Trp Ser Glu Lys Leu
 210 215 220
 Gly Lys Thr Gln Met Ser Ala Arg Gln Val Ser Leu Arg Gly Gly Asp
 225 230 235 240
 Leu Arg Cys Glu Leu Lys Gly Asp Arg Val Leu Ile Gly Gly Gln Ala
 245 250 255
 Thr Leu Tyr Met Lys Gly Lys Ile Phe Leu Arg Leu Gln Asp Tyr Val
 260 265 270
 Gln Leu
 275

<210> 9104

<211> 551

<212> PRT

<213> *Enterobacter cloacae*

<400> 9104

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Trp Phe Cys His Phe Arg Phe Val Asp Ser Leu Ala Pro Asn Val Leu
1      5      10      15
Leu Gln Lys Lys Ile Met Asn Leu Thr Gln Ile Phe Arg Arg Leu Ala
20      25      30
Pro Arg Phe Ile Pro Arg Gln Phe Gly Leu Leu Thr Gly Ile Phe Cys
35      40      45
Ile Ile Gly Leu Phe Ser Ala Leu Gln Leu Ser Ser Ser Phe Leu Leu
50      55      60
Thr Ala Ser Leu Asn Gln Ala Gln Arg Asn Glu Gln Arg Asn Gln Leu
65      70      75      80
Ala Trp Gln Gln Gln Ser Arg Leu Asp Gln Ala Arg Ile Ser Leu Leu
85      90      95
Ala Ala Ser Asp Leu Leu Asn Arg Ser Gly Val Tyr Phe Met Gln Asp
100     105     110
Lys Glu Thr Thr Gly Ser Glu Gly Ser Trp His Ser Leu Met Asp Glu Ala
115     120     125
Gln Lys Ser Leu Ala Ala Ser Gln Gln Ala Trp Gln Ala Trp Leu Ala
130     135     140
Leu Asn Pro Pro Gln Asp Glu Gly Leu Val Asn Ser Tyr Gln Leu Phe
145     150     155     160
Phe Gly Ala Ile Ser Glu Gln Ala Glu Gly Leu Val Lys Thr Asn Ser
165     170     175
Ile Asp Leu Phe Phe Ala Val Pro Ala Gln Ala Phe Gln Thr Asp Phe
180     185     190
Asn Asp Asn Phe Ala Arg Tyr Gln Gln Arg Ser Glu Lys Gln Ala Ile
195     200     205
Gln Gly Arg Gln Ser Leu Met Glu Gln Leu Ser Gly Leu Gln Arg Leu
210     215     220
Phe Leu Phe Ala Pro Leu Val Leu Leu Ala Ile Ala Ile Ala Val Trp
225     230     235     240
Phe Gly Met Ala Lys Trp Val Ile Ser Pro Leu Arg Arg Leu Ile Ile
245     250     255
His Ile Asn Gln Leu Ala Ala Gly Asp Leu Ser Gly Thr Pro Pro Asp
260     265     270
Val Val Arg Phe Asn Arg Glu Ile Ser Gln Leu Cys Gly Ser Ile Thr
275     280     285
Ala Met Gln Leu Gly Leu Gln Gln Leu Val Thr Gln Val Ser Glu Ala
290     295     300
Thr Thr Ala Met Val Glu Asn Ile Gly Ser Leu Ala Gln Gly Asn Gln
305     310     315     320
Lys Leu Tyr Gln Gln Ser Thr Arg Gln Ala Lys Glu Leu Glu Glu Val
325     330     335
Thr Ala His Ile Ala Asp Leu Glu Thr His Val Glu Gly Asn Thr Gly
340     345     350
Tyr Ala Lys Leu Ala Arg Ser Arg Ala Asp Glu Ala Arg Gln Ala Ala
355     360     365
Val Gly Gly Glu Gln Met Met Thr Ala Val Asn Gly Ser Met Gln Thr
370     375     380
Ile Val Asp Arg Ser Ser Glu Met Arg Gly Ile Val Ala Met Ile Asp
385     390     395     400
Ser Val Ala Phe Gln Thr Asn Ile Leu Ala Leu Asn Ala Ala Ile Glu
405     410     415
Ala Ala His Ala Gly Glu Gln Gly Arg Gly Phe Ala Val Val Ala Arg
420     425     430
Glu Val Gly Leu Leu Ala Arg Lys Ser Ser His Ser Thr Gln Thr Ile
435     440     445

```

Gln Ala Leu Ile Asn His Ser Leu Gln Gly Ile Glu Glu Gly Ser Gln
 450 455 460
 Val Val Asn Arg Leu Glu Glu Asn Leu Gln Gln Val Thr Gly Leu Val
 465 470 475 480
 Ala Asn Leu Ser Ser Leu Leu Asn Asp Ile Ser Leu Ala Thr Leu Asn
 485 490 495
 Gln Gly Asp Ser Ile His Gln Met Thr Arg Gln Leu Gln Ala Leu Asn
 500 505 510
 Gln Val Ser Arg Gln Thr Asp Val Leu Val Ser Glu Ala Ser Asn Ala
 515 520 525
 Ser Glu Arg Leu His Gln Gln Ser Asp Leu Leu Leu Gln Ala Val Ser
 530 535 540
 Arg Phe Arg Leu Pro Ala
 545 550

<210> 9105

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9105

Gly Arg Ala Met Asn Ser Pro Met Leu Ile Lys Pro Leu Ser Arg Gln
 1 5 10 15
 Asp Ile Leu Thr His Ile Asp Ala Leu Asn Asp Ile Leu Val Asn Cys
 20 25 30
 Val Asn Gly Gly Ala Ser Val Ser Phe Met Leu Pro Phe Ser Ala Ala
 35 40 45
 Lys Ala Gln Thr Phe Trp Leu Gly Val Ala Asp Ser Val Gly Arg Asp
 50 55 60
 Glu Arg Thr Val Leu Gly Cys Phe Asp Ala Glu Gln Gly Leu Val Gly
 65 70 75 80
 Thr Val Gln Leu Ile Thr Asp Gln Pro Glu Asn Gln Pro His Arg Ala
 85 90 95
 Asp Val Ala Lys Leu Leu Val His Glu Lys Ala Arg Arg Lys Gly Ala
 100 105 110
 Ala Met Ala Leu Met Glu Ser Leu Glu Ala Val Ala Arg Glu Lys Ala
 115 120 125
 Leu Thr Val Leu Val Leu Asp Thr Ser Thr Gly Ser Gly Ala Glu Thr
 130 135 140
 Phe Tyr Gln Arg Ala Gly Trp Gln Lys Ala Gly Glu Ile Ser Arg Tyr
 145 150 155 160
 Ala Leu Met Pro Asn Gly Asp Met Thr Ala Thr Ser Met Phe Tyr Lys
 165 170 175
 Phe Leu

<210> 9106

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 9106

Cys Glu Glu His Met Thr Leu Ile Val Arg Pro Leu Gln Thr Glu Asp
 1 5 10 15
 Tyr Pro Gln Trp Arg Pro Leu Trp Asp Gly Tyr Ile His Phe Tyr Glu
 20 25 30
 Cys Tyr Leu Asp Glu Ser Val Thr Ala Ala Thr Trp Asp Arg Ala Leu
 35 40 45
 Thr Asp Ser Ser Pro Leu Phe Cys Arg Val Val Glu Lys Asp Gly Ser
 50 55 60
 Val Ile Gly Phe Ala Met Cys Val Leu His Glu Gly Thr Trp Ser Thr

```

65              70              75              80
Ala Pro Val Cys Tyr Leu Glu Asp Leu Phe Val Asp Ala Ala Glu Arg
      85              90
Gly Ala Gly Ala Gly Lys Ala Leu Ile Asp Ala Leu Ile Asp Glu Gly
      100              105              110
Lys Arg Glu Gly Trp Ser Lys Leu Tyr Trp Val Thr Arg Met Asn Asn
      115              120              125
Pro Ala Arg Lys Leu Tyr Asp His Tyr Gly Glu Ala Asp Asp Tyr Val
      130              135              140
Arg Tyr Arg Ile Ser Leu
145              150

```

<210> 9107

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 9107

```

Ala Leu Ile Cys Ala Ile Phe Asn Pro Leu Asn Gln Glu Pro
1              5              10              15
Ala Val Glu His Ile Asp His Ile Leu Val Val Asp Asp Arg Asp
      20              25              30
Ile Arg Glu Leu Ile Val Asp Tyr Leu Val Lys Ser Gly Tyr His Ala
      35              40              45
Ser Gly Ala Ala Asn Gly Lys Glu Met Arg Val Val Leu Asp Lys Gln
      50              55              60
His Ile Asp Leu Val Val Leu Asp Val Met Met Pro Gly Asp Asp Gly
65              70              75              80
Leu Thr Leu Cys Arg Gln Leu Arg Ser Ser Arg His Lys Asp Leu Pro
      85              90              95
Ile Leu Met Leu Thr Ala Arg Asn Glu Asp Thr Asp Arg Ile Leu Gly
      100              105              110
Leu Glu Met Gly Ala Asp Asp Tyr Val Val Lys Pro Phe Val Ala Arg
      115              120              125
Glu Leu Leu Ala Arg Ile Lys Ala Ile Leu Arg Arg Phe Arg Thr Met
      130              135              140
Pro Pro Asn Leu Gln Val Thr Glu Ala Gly Arg Leu Val Val Phe Gly
145              150              155              160
Glu Trp Gln Leu Asp Thr Val Ala Arg His Leu Ile Asp Asn Glu Gly
      165              170              175
Met Val Val Ala Leu Ser Gly Ala Glu Tyr Arg Leu Leu Val Phe
      180              185              190
Leu Asp His Pro Gln Arg Val Leu Thr Arg Asp Gln Leu Leu Asn Leu
      195              200              205
Thr Gln Gly Arg Asp Ala Glu Leu Phe Glu Arg Ser Ile Asp Leu Leu
      210              215              220
Val Ser Arg Val Arg Gln Arg Leu Asn Glu Asp Ala Arg Thr Pro Ala
225              230              235              240
Tyr Ile Lys Thr Val Arg Ser Glu Gly Tyr Val Phe Thr Met Pro Val
      245              250              255
Thr Ile Val Glu Ala Asn Glu
260

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<210> 9108

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 9108

```

Gly Gln Ala Met Lys Ala Ile Ser Ile Leu Ala Cys Gly Ala Asp Pro
1              5              10              15

```


Thr Ala Gln Arg Met Ser Thr Ser Ala Ile Gln Gln Ala Ile Asn Ser
 20 25 30
 Ala Gln Gln Asn Asp Val Ile Val Ile Pro Gln Gly Arg Phe Leu Thr
 35 40 45
 Gly Ala Leu Phe Leu Lys Ser Gly Val Ser Leu Arg Leu Asp Ala Gly
 50 55 60
 Ala Gln Leu Val Gly Ser Gln Asp Leu Ala Asp Tyr Pro Leu Ile Asn
 65 70 75 80
 Thr Arg Val Ala Gly Ile Asp Met Arg Trp Pro Ala Gly Ile Ile Asn
 85 90 95
 Ile Ile Asp Cys Glu Asn Val Ser Ile Thr Gly Thr Gly Thr Ile Asp
 100 105 110
 Gly Gln Gly Val Ile Trp Trp Gln Arg Phe Trp Gly Asp Glu Arg
 115 120 125
 Ser Gly Met Val Gly Asp Tyr Ser Ala Arg Gly Leu Arg Trp Val Val
 130 135 140
 Asp Tyr Asp Cys Gln Arg Pro Arg Asn Ile Leu Val Phe Glu Ser Gln
 145 150 155 160
 Asn Ile Leu Leu Arg Asp Phe Thr Ser Arg Glu Ser Gly Phe Trp Asn
 165 170 175
 Ile His Leu Cys Tyr Ser Arg Arg Ile Ala Val Glu Gly Val Gln Ile
 180 185 190
 Ser Asn Ser Ala Gly Pro Ser Thr Asp Gly Ile Asp Val Asp Ser Cys
 195 200 205
 Glu Gln Val Arg Ile Glu Arg Cys Ile Val Ser Cys Asn Asp Asp Asn
 210 215 220
 Ile Cys Ile Lys Ser Gly Arg Gly Arg Glu Ala Ala Gln Lys Ala Arg
 225 230 235 240
 Thr Ala Arg Asp Ile Val Ile Arg Gly Cys Thr Leu Asn Lys Gly Ser
 245 250 255
 Gly Ile Thr Leu Gly Ser Glu Thr Ser Gly Gly Ile Glu Arg Val Leu
 260 265 270
 Ile Glu Asp Asn Ala Phe Asn Gly Thr Gly Val Gly Phe Arg Ile Lys
 275 280 285
 Ser Ala Arg Asn Arg Gly Gly Phe Ile Arg Asp Ile Thr Val Gln Asn
 290 295 300
 Leu Arg Leu Thr Asp Val Arg Phe Pro Val Leu Ile Gln Leu Asn Trp
 305 310 315 320
 Phe Pro Gln Tyr Ser Tyr Gly Asp Gln Ser Asn Leu Ser Asp Lys Pro
 325 330 335
 Glu His Trp Arg Lys Leu Ala Glu Gly Val Glu Gly Glu Ala Gly Leu
 340 345 350
 Thr Glu Val Ser Gly Leu Thr Ile Lys Asn Met Thr Ala Arg Arg Ser
 355 360 365
 Asp Lys Lys Tyr Phe Ser Arg Ala Phe Phe Ile Glu Gly Tyr Pro Glu
 370 375 380
 Arg Pro Val Ala Gly Leu Thr Leu Glu Gly Ile Phe Ile Asp Ala Thr
 385 390 395 400
 Glu Phe Gly Lys Ile Ser Gly Val Asp Gly Leu Arg Phe Gln Asp Val
 405 410 415
 Gln Val Thr Ala Val Glu Asn Thr Gln Asp Cys Asn Asp Ser Tyr Glu
 420 425 430
 Arg

<210> 9109

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 9109

Gly Ile Thr Val Arg Tyr Ser Val Gln Val Val Cys Phe Ala Ala Thr
 1 5 10 15
 Gly Gly Thr Met Asp Ile Thr Gln His Leu Ala Thr Thr Lys Ala
 20 25 30
 Leu Arg Leu Ala Arg Gly Trp Ser Leu Ser Lys Leu Ala Glu Glu Thr
 35 40 45
 Gly Val Ser Lys Ala Met Leu Gly Gln Ile Glu Arg Asn Glu Ser Ser
 50 55 60
 Pro Thr Val Ser Thr Leu Trp Lys Ile Ala Thr Gly Leu Asn Val Pro
 65 70 75 80
 Phe Ser Ala Phe Ile Thr Pro Glu Ser Glu Pro Gln Ala Val Phe Asp
 85 90 95
 Pro Gln Gln Gln Ala Met Val Val Lys Pro Leu Phe Pro Trp Asp Glu
 100 105 110
 Gln Leu Lys Phe Asp His Phe Ser Ile Thr Leu Ser Pro Gly Ala Leu
 115 120 125
 Ser Glu Ser Thr Pro His Glu Ala Gly Val Ile Glu His Val Val Val
 130 135 140
 Ile Ser Gly Glu Leu Asp Met Gln Ile Asp Gly Val Trp Arg Thr Ile
 145 150 155 160
 Tyr Ala Asp Ser Gly Val Arg Phe Ala Gly Asp Lys Pro His Ala Tyr
 165 170 175
 Arg Asn Ser Ser Ala Arg Thr Val His Phe His Ser Leu Ile His Tyr
 180 185 190
 Pro Arg
 195

<210> 9110

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 9110

Trp Arg Glu Ser Val Phe Ser Glu Leu Ala Cys Ser Ala Ser Gly Trp
 1 5 10 15
 Leu Pro Ser Ala Arg Gln Ala Gly Leu Arg Leu Pro Glu Arg Lys Arg
 20 25 30
 Gln Asn Arg Ser Arg Val Ala Gly Ser Arg Gly His Ala Pro Arg Gly
 35 40 45
 Ala Pro Gly Arg Ala Leu Arg Val Arg Val His Pro Ala Leu Ala Ser
 50 55 60
 Arg Val Gln Gln Pro Asp Pro Phe Gln Ala Asp Ala Asp Arg Arg
 65 70 75 80
 Arg Pro Glu Tyr Gly Ser Arg Pro Leu Pro Gly Ala Arg Arg His Pro
 85 90 95
 Arg Ser Pro Arg Arg Thr Asp Thr Ser His Arg Pro Ser Pro Gly Ala
 100 105 110
 Ala Ser Gln Arg Phe Leu Pro Pro Arg Gln Thr Gln Arg Tyr Ile Asn
 115 120 125
 Arg His Met Pro Ala Arg Pro Arg Ala Ala Arg Asp Val Leu Ser Leu
 130 135 140
 Ser Ser Phe Cys Cys Phe Leu Ala
 145 150

<210> 9111

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 9111

Gly Arg Glu Leu Met Gln Pro Ser Glu Gly Leu Phe Thr Arg Gln Leu

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1           5           10           15
Pro Gly Asp Arg Tyr Arg Glu Gln Thr Asp Pro Val Leu Gln Leu Gly
20           25           30
Ala Ile Asn Val Ser Phe Asp Gly Phe Gln Ala Leu Thr Asp Leu Ser
35           40
Leu Asn Ile Gly Val Gly Glu Leu Arg Cys Ile Ile Gly Pro Asn Gly
50           55           60
Ala Gly Lys Thr Thr Leu Met Asp Val Ile Thr Gly Lys Thr Arg Pro
65           70           75           80
Lys Ser Gly Lys Ala Ile Tyr Asp Gln Ser Ile Asp Leu Thr Ala Leu
85           90           95
Glu Pro Ala Ala Ile Ala Arg Gln Gly Ile Gly Arg Lys Phe Gln Lys
100          105          110
Pro Thr Val Phe Glu Ala Leu Thr Val Gly Glu Asn Leu Glu Ile Ala
115          120          125
Met Lys Ala Asp Arg Ser Val Trp Ala Ser Leu Arg Ala Thr Leu Ser
130          135          140
Gly Glu Gln Arg Asp Arg Ile Asp Glu Met Leu Val Leu Leu Arg Leu
145          150          155          160
Gly Ser Glu Arg Asp Arg Arg Ala Gly Leu Leu Ser His Gly Gln Lys
165          170          175
Gln Phe Leu Glu Ile Gly Met Leu Leu Val Gln Asp Pro His Leu Leu
180          185          190
Leu Leu Asp Glu Pro Ala Ala Gly Met Thr Asp Ala Glu Thr Glu Tyr
195          200          205
Thr Ala Glu Leu Phe Arg Thr Leu Ala Gly Lys His Ser Leu Met Val
210          215          220
Val Glu His Asp Met Gly Phe Val Glu Thr Ile Ala Asp His Val Thr
225          230          235          240
Val Leu His Gln Gly Arg Val Leu Ala Glu Gly Ser Leu Arg Glu Val
245          250          255
Gln Ala Asn Glu Gln Val Ile Asp Val Tyr Leu Gly Arg
260          265          270

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<210> 9112

<211> 198

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (188)

<400> 9112

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Gly Glu Gly Met Leu Gln Val Ser Glu Leu Asn Gln Tyr Tyr Gly Gly
1           5           10           15
Ser His Ile Leu Arg Gly Val Ser Phe Glu Ala Val Val Gly Glu Val
20           25           30
Thr Cys Leu Leu Gly Arg Asn Gly Val Gly Lys Thr Thr Leu Leu Arg
35           40           45
Cys Leu Met Gly Leu Ile Pro Val Lys Ala Gly Glu Val Val Trp Gln
50           55           60
Gly Lys Thr Ile Thr His Ser Lys Pro His Gln Arg Val Gln Ser Gly
65           70           75           80
Val Ala Tyr Val Pro Gln Gly Arg Glu Ile Phe Pro Arg Leu Thr Val
85           90           95
Glu Glu Asn Leu Leu Met Gly Leu Thr Arg Phe Ser Ala Gly Asn Ala
100          105          110
Arg Ser Val Pro Glu Glu Ile Trp Gln Leu Phe Pro Val Leu Lys Glu
115          120          125
Met Lys His Arg Arg Gly Gly Asp Leu Ser Gly Gly Gln Gln Gln Gln

```

```

      130              135              140
Leu Ala Ile Gly Arg Ala Leu Ala Ser Arg Pro Gln Leu Leu Ile Leu
145              150              155              160
Asp Glu Pro Thr Glu Gly Ile Gln Pro Ser Val Ile Lys Glu Ile Gly
      165              170              175
Gln Val Ile Arg Asn Leu Ala Asn Arg Gly Asp Xaa Ala Ile Leu Leu
      180              185              190
Gly Gly Ala Ile Leu
      195

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<210> 9113
<211> 312
<212> PRT
<213> Enterobacter cloacae

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<400> 9113
Ser Val Tyr Lys Ile Leu Ile Phe Gln Gly Arg Lys Met Thr Arg Lys
1      5      10      15
Asp Gly Leu Leu Ala Leu Leu Val Val Val Ala Trp Gly Leu Asn Phe
      20      25      30
Val Val Ile Lys Met Gly Leu His Asn Met Pro Pro Leu Met Leu Ala
      35      40      45
Gly Leu Arg Phe Leu Leu Val Ala Phe Pro Ala Leu Leu Phe Val Ala
      50      55      60
Arg Pro Lys Ile Pro Leu Lys Leu Leu Leu Gly Tyr Gly Leu Thr Ile
      65      70      75      80
Ser Phe Gly Gln Phe Ala Phe Leu Phe Cys Ala Ile Lys Phe Gly Met
      85      90      95
Pro Ala Gly Leu Ala Ser Leu Val Leu Gln Val Gln Ala Phe Phe Thr
      100      105      110
Ile Ile Leu Gly Ala Phe Val Phe Gly Glu Arg Leu Gln Gly Lys Gln
      115      120      125
Leu Ala Gly Ile Ser Leu Ala Val Phe Gly Val Leu Val Leu Ile Glu
      130      135      140
Gly Ser Leu Asn Gly Gln His Val Ala Leu Leu Gly Phe Met Leu Thr
      145      150      155      160
Leu Ala Ala Gly Leu Ser Trp Ala Cys Gly Asn Ile Phe Asn Lys Leu
      165      170      175
Ile Met Gln His Glu Ala Arg Pro Ala Val Leu Ser Leu Val Val Trp
      180      185      190
Ser Ala Leu Ile Pro Ile Val Pro Phe Met Ala Ala Ser Phe Ile Leu
      195      200      205
Glu Gly Pro Gln Ala Met Leu Lys Ser Leu Val Glu Ile Asp Leu Thr
      210      215      220
Thr Ile Leu Ser Leu Ile Tyr Leu Ala Phe Val Ala Ser Ile Ile Gly
      225      230      235      240
Tyr Gly Ile Trp Gly Ser Leu Leu Gly Arg Tyr Glu Thr Trp Arg Val
      245      250      255
Ala Pro Leu Ser Leu Leu Val Pro Val Val Gly Leu Ala Ser Ala Ala
      260      265      270
Leu Leu Leu Asp Glu Thr Leu Ser Ala Leu Gln Leu Cys Gly Ala Gly
      275      280      285
Leu Ile Met Ala Gly Leu Tyr Ile Asn Val Phe Gly Leu Arg Val Arg
      290      295      300
Arg Ala Thr Arg Val Gln Ser
      305      310

```

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<210> 9114
<211> 171
<212> PRT
<213> Enterobacter cloacae

```

<400> 9114

```

Ile Arg Arg Trp Arg Trp Gly Arg Gly Asp Cys Pro Pro Arg Asp Gly
1      5      10      15
Asp Cys Arg Leu Glu Pro Gly Thr Gly Arg Asp Arg Lys Phe Thr Gly
20      25      30
Gly Arg Ser Gly Ala Gly Thr Ala Asp Gln Thr Ser Trp Thr Val Arg
35      40      45
Ile Leu Met Ser Thr Leu Asp Pro Leu Phe Ala Arg Leu Ala Arg Ser
50      55      60
Thr Phe Arg Ser Arg Phe His Leu Gly Thr Lys Glu Arg Gln Tyr Cys
65      70      75      80
Trp Asp Lys Gly Ala Glu Thr Ile Asp Lys His Ala Ala Asp Phe Val
85      90      95
Ala Ala Arg Leu Ala Pro Ala His Pro Val Asn Asp Gly Lys Gln Thr
100     105     110
Pro Met Arg Gly His Pro Val Phe Ile Ala Gln His Ala Thr Ala Thr
115     120     125
Cys Cys Arg Gly Cys Leu Ala Lys Trp His Ala Ile Pro Gln Gly Val
130     135     140
Pro Leu Ser Ala Gln Gln Gln Gln Tyr Ile Val Asn Val Ile His His
145     150     155     160
Trp Leu Val Ile Glu Val Asn Arg Ala Ser
165     170

```

<210> 9115

<211> 358

<212> PRT

<213> *Enterobacter cloacae*

<400> 9115

```

Asn Arg Ile Arg Thr His Leu Leu Tyr Lys Arg Met Val Leu Tyr Leu
1      5      10      15
Arg Gln Leu Asn Leu Pro Gly Asp Asn Ile Met Phe Asn Lys Leu Ala
20      25      30
Tyr Ser Ala Val Ala Leu Thr Val Ser Leu Gly Thr Val Met Ser Cys
35      40      45
Gln Ala Glu Ala Thr Gly Lys Asp Tyr Ala Ser Ala Phe Asn Gln Val
50      55      60
Lys Gln Ile Asn Ala Gly Asp Leu Asn Val Gly Tyr Val Asp Ile Gly
65      70      75      80
Pro Lys Glu Gly Gln Pro Val Ile Leu Leu His Gly Trp Pro Tyr Asp
85      90      95
Ile His Ser Tyr Ala Glu Val Ala Pro Ala Leu Ala Ala Lys Gly Tyr
100     105     110
Arg Val Ile Val Pro Ser Leu Arg Gly Tyr Gly Thr Thr Arg Phe Ile
115     120     125
Ser Asp Lys Thr Pro Arg Asn Gly Gln Pro Ser Ala Met Ala Lys Asp
130     135     140
Ile Val Asn Leu Met Asp Ala Leu Asn Ile Lys Gln Ala Val Phe Ala
145     150     155     160
Gly Tyr Asp Trp Gly Ala Arg Thr Ala Asp Ile Val Ala Ala Leu Trp
165     170     175
Pro Glu Arg Val Lys Ser Leu Val Ser Val Ser Gly Tyr Leu Ile Ser
180     185     190
Ser Gln Ala Ile Gly Lys Gln Pro Leu Pro Pro Lys Ala Glu Val Gln
195     200     205
Trp Trp Tyr Gln Phe Tyr Phe Ala Thr Pro Arg Gly Ala Glu Gly Tyr
210     215     220
Ala Lys Asn Thr His Asp Phe Ala Arg Leu Ile Trp Ser Gln Ala Ser
225     230     235     240

```

Pro Asp Trp Lys Phe Ser Asp Ala Thr Phe Asn Ala Ser Ala Lys Ser
 245 250 255
 Leu Asp Asn Pro Asp His Val Ala Val Thr Leu Ser Asn Tyr Arg Trp
 260 265 270
 Arg Leu Gly Leu Glu Lys Gly Glu Gln Lys Tyr Asp Ala Tyr Glu Gln
 275 280 285
 Lys Leu Ala Thr Leu Pro Asn Ile Thr Val Pro Thr Ile Thr Ile Glu
 290 295 300
 Gly Gly Asn Asn Gly Ala Pro His Pro Val Pro Ala Ala Tyr Ala Gly
 305 310 315 320
 Lys Phe Thr Gly Lys Tyr Glu His Arg Thr Phe Gly Ala Thr Val Gly
 325 330 335
 His Asn Pro Pro Gln Glu Asp Pro Gln Asp Phe Val Lys Ala Val Val
 340 345 350
 Asp Ala Asp Lys Leu
 355

<210> 9116

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 9116

Ile Met Leu Thr Ser Gln Arg Lys Gln Leu Ile Leu Glu Lys Leu Glu
 1 5 10 15
 Ala Glu Gly Gln Val Gln Ser Thr Ala Leu Ser Leu Phe Phe Ser Val
 20 25 30
 Ser Glu Asp Thr Ile Arg Arg Asp Leu Arg Glu Leu Ala Ala Glu Gly
 35 40 45
 Arg Leu Gln Arg Val His Gly Gly Ala Leu Pro Ala Ser Ser Ala Ile
 50 55 60
 Ala Pro Phe Ala Glu Arg Gln Ser Val Lys Met Asp Ala Lys Lys Arg
 65 70 75 80
 Val Ala Arg Arg Gly Ala Gln Leu Ile Ser Pro Gly Gln Val Val Ile
 85 90 95
 Ile Asp Gly Gly Thr Thr Thr Ser Glu Leu Ile Thr Phe Leu Pro Pro
 100 105 110
 Asp Leu Pro Ile Thr Val Val Thr His Ser Pro Gly Ile Ala Leu Gly
 115 120 125
 Leu Val Gly His Pro Ser Ile Glu Val Ile Leu Ile Gly Gly Arg Leu
 130 135 140
 Tyr Lys His Ser Ile Val Thr Val Gly Ala Ala Ile Glu Gly Ile
 145 150 155 160
 Asn Asn Ile His Ala Asp Leu Phe Phe Met Gly Val Thr Gly Val His
 165 170 175
 Pro Glu Ala Gly Leu Thr Thr Gly Asp Tyr Glu Glu Ala Cys Ile Lys
 180 185 190
 Arg Ala Phe Ser Gly Arg Ala Ala Glu Thr Val Val Leu Ala Ser Pro
 195 200 205
 Glu Lys Ile Asn Thr Ala Ser Ala Phe Val Ile Gly Asp Leu Ser Leu
 210 215 220
 Val Asn Thr Leu Val Val Glu Asn Thr Thr Asp Glu Arg Trp Val Ser
 225 230 235 240
 Ala Met Lys Glu Lys Gly Val Thr Val Ile Ala Ser Gln
 245 250

<210> 9117

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 9117

Phe Ile Pro Asp Val Ala Arg Tyr Ile Leu Tyr Leu His Asp Ser Ala
 1 5 10 15
 Val Tyr Asp Ala Tyr Ser Thr Arg Gly Glu Pro Asn Val Gln Ser Lys
 20 25 30
 Arg Ala Asp Ile Arg Ile Ile Asn Ser Glu Thr Leu Ser Asp Asn Trp
 35 40 45
 Tyr Asn Leu Lys Lys Tyr Thr Phe Asp Phe Gln Arg Ser Asp Gly Asp
 50 55 60
 Trp Gln Arg Gln Glu Arg Glu Val Tyr Asp Arg Gly Asn Gly Ala Thr
 65 70 75 80
 Ile Leu Leu Tyr Asn Arg Asp Ser Lys Thr Val Ile Leu Thr Arg Gln
 85 90 95
 Phe Arg Phe Pro Val Phe Ile Asn Gly His Glu Glu Asp Leu Ile Glu
 100 105 110
 Ala Ala Ala Gly Leu Leu Asp Asn Leu Asp Pro Glu Ser Arg Ile Lys
 115 120 125
 Ala Glu Ala Glu Glu Glu Thr Gly Phe Lys Val Thr Arg Val Glu Lys
 130 135 140
 Ile Phe Glu Ala Tyr Met Ser Pro Gly Ser Val Thr Glu Lys Leu Tyr
 145 150 155 160
 Phe Tyr Leu Ala Glu Tyr His Pro Gln Asp Arg Thr Ser Ala Gly Gly
 165 170 175
 Gly Val Lys Ala Glu Gly Glu Asp Ile Asp Val Leu Glu Met Thr Leu
 180 185 190
 Asp Asp Ala Leu Gln Gly Ile Glu Asn Gly Gln Ile Val Asp Gly Lys
 195 200 205
 Thr Ile Met Leu Leu Tyr His Leu Ala Leu Lys Gly Ile Leu
 210 215 220

<210> 9118

<211> 261

<212> PRT

<213> *Enterobacter cloacae*

<400> 9118

Thr Pro Gln His Gly Asp Ala Lys Met Ala Asp Trp Asp Pro Ser Leu
 1 5 10 15
 Tyr Leu Gln Tyr Ser Ala Glu Arg Thr Arg Pro Ala Ala Glu Leu Leu
 20 25 30
 Ala Arg Val Pro Leu Ala Asp Ile Thr Ser Ala Val Asp Leu Gly Cys
 35 40 45
 Gly Pro Gly Asn Ser Thr Ala Leu Leu Lys Gln Arg Trp Pro Ser Ala
 50 55 60
 Gln Ile Ala Gly Val Asp Asn Ser Pro Ala Met Leu Glu Glu Ala Arg
 65 70 75 80
 Gln Ala Leu Pro Asp Cys His Phe Val Glu Ala Asp Ile Arg His Tyr
 85 90 95
 Lys Pro Asp Gln Pro Leu Ser Leu Ile Tyr Ala Asn Ala Ser Leu Gln
 100 105 110
 Trp Ile Pro Asp His Tyr His Leu Leu Pro His Leu Val Ser Leu Leu
 115 120 125
 Gln Leu Asn Gly Val Leu Ala Val Gln Met Pro Asp Asn Trp Leu Glu
 130 135 140
 Pro Thr His Ala Leu Met Arg Glu Val Ala Trp Glu Gln Gly Tyr Pro
 145 150 155 160
 Asp Arg Gly Arg Glu Pro Leu Pro Gly Ile His Ala Tyr Tyr Asp Ile
 165 170 175
 Leu Thr Glu Ala Gly Cys Asp Val Asp Ile Trp Arg Thr Thr Tyr Phe
 180 185 190
 His Gln Met Ser Ser His Gln Ala Ile Ile Asp Trp Val Ser Ala Thr

195 200 205
 Gly Leu Arg Pro Trp Leu Gln Glu Leu Asn Glu Ser Glu Gln Lys Asn
 210 215 220
 Tyr Leu Lys Arg Tyr Leu Glu Leu Leu Glu Glu Gln Tyr Pro Leu Gln
 225 230 235 240
 Glu Asn Gly Gln Ile Leu Leu Ala Phe Pro Arg Leu Phe Met Val Ala
 245 250 255
 Gln Arg Val Pro
 260

<210> 9119
 <211> 205
 <212> PRT
 <213> Enterobacter cloacae

<400> 9119
 Phe Ile Ala Lys Ile Lys Ser Arg His Arg Ala Asn Ile Val Ile Phe
 1 5 10 15
 Leu Ile Arg Cys Ala His Leu Gln Arg Leu Asp Arg Val Asn Lys Ala
 20 25 30
 Leu Gly Lys Gly Val Arg Tyr Ala Arg Phe His Asn Lys Ala Phe Cys
 35 40 45
 Arg Arg Thr Asn Leu Ser Gly Ile Leu Ile Thr Ser Gly His Arg Arg
 50 55 60
 Val Asp Gly Gln Ile Lys Ile Arg Ile Val Gln Asn Asp Lys Arg Ile
 65 70 75 80
 Gly Thr Ala Gln Leu Gln His Ala Phe Leu Gln Arg Arg Ala Arg Leu
 85 90 95
 Arg Ala Asn Cys Arg Thr Ser Pro Asn Ala Ala Gly Tyr Gly His Arg
 100 105 110
 Arg Asp Thr Pro Ile Val Asn Arg Leu Ala Asp Ala Val Ile Arg Arg
 115 120 125
 Val His Pro Ala Lys Asp Pro Leu Arg Glu Thr Gly Ile Arg Glu Tyr
 130 135 140
 Leu Pro Asp Gln Leu Arg Arg Ala Glu His Ile Trp Arg Met Phe Lys
 145 150 155 160
 Gln Ile Ala Val Pro Cys Gln Gln Asp Arg His Arg Thr Ala Gln His
 165 170 175
 Leu Pro Glu Arg Glu Ile Pro Arg His His Arg Lys Asn Arg Ser Gln
 180 185 190
 Arg Thr Val Leu Asn His Arg Ile Phe Asp Leu Gly
 195 200 205

<210> 9120
 <211> 304
 <212> PRT
 <213> Enterobacter cloacae

<400> 9120
 Tyr Ser Pro Pro Tyr Ser Arg Ile Glu Asn Gly Met Asp Leu Thr Gln
 1 5 10 15
 Leu Glu Met Phe Asn Ala Val Ala Leu Thr Gly Ser Ile Thr Gln Ala
 20 25 30
 Ala Gln Lys Val His Arg Val Pro Ser Asn Leu Thr Thr Arg Ile Arg
 35 40 45
 Gln Leu Glu Ala Asp Leu Gly Val Glu Leu Phe Ile Arg Glu Asn Gln
 50 55 60
 Arg Leu Arg Leu Ser Pro Ala Gly His Asn Phe Leu Arg Tyr Ser Lys
 65 70 75 80
 Gln Ile Leu Ala Leu Val Asp Glu Ala Arg Met Val Val Ala Gly Asp
 85 90 95

Glu Pro Gln Gly Leu Phe Ser Leu Gly Ala Leu Glu Ser Thr Ala Ala
 100 105 110
 Val Arg Ile Pro Glu Ser Leu Ala Arg Phe Asn Gln Arg Tyr Pro Arg
 115 120 125
 Ile Gln Phe Ala Leu Ser Thr Gly Pro Ser Gly Thr Met Ile Asp Gly
 130 135 140
 Val Leu Glu Gly Thr Leu Ser Ala Ala Phe Val Asp Gly Pro Leu Ser
 145 150 155 160
 His Pro Glu Leu Glu Gly Met Pro Val Tyr Arg Glu Glu Met Met Leu
 165 170 175
 Val Thr Pro Ala Gly His Ala Glu Val Ser Lys Ala Thr Gln Val Ser
 180 185 190
 Gly Ser Asp Val Tyr Ala Phe Arg Ala Asn Cys Ser Tyr Arg Arg His
 195 200 205
 Leu Glu Ser Trp Phe His Ala Asp Arg Val Thr Pro Gly Arg Ile His
 210 215 220
 Glu Met Glu Ser Tyr His Gly Met Leu Ala Cys Val Ile Ala Gly Ala
 225 230 235 240
 Gly Ile Ala Leu Met Pro Arg Ser Met Leu Glu Ser Met Pro Gly His
 245 250 255
 His Gln Val Ala Ala Trp Pro Leu Ala Glu Asn Trp Arg Trp Leu Thr
 260 265 270
 Thr Trp Leu Val Trp Arg Arg Gly Ala Met Thr Arg Gln Leu Glu Ala
 275 280 285
 Phe Ile Ala Leu Leu Asn Glu Arg Gln Pro Pro Ala Pro Ser Cys
 290 295 300

<210> 9121

<211> 143

<212> PRT

<213> *Enterobacter cloacae*

<400> 9121

Ala Phe Thr Gln Glu Asn Pro Ala Val Asn Arg Lys Arg Gly Met Thr
 1 5 10 15
 Met Ser Arg Arg Asn Thr Asp Ala Ile Thr Ile His Ser Ile Leu Asp
 20 25 30
 Trp Ile Glu Asp Asn Leu Glu Ser Pro Leu Ser Leu Glu Lys Val Ser
 35 40 45
 Glu Arg Ser Gly Tyr Ser Lys Trp His Leu Gln Arg Met Phe Lys Lys
 50 55 60
 Glu Thr Gly His Ser Leu Glu Gln Tyr Ile Arg Ser Arg Lys Leu Thr
 65 70 75 80
 Glu Ile Ala Gln Lys Leu Lys Glu Ser Asn Glu Pro Ile Leu Tyr Leu
 85 90 95
 Ala Glu Arg Tyr Gly Phe Glu Ser Gln Gln Thr Leu Thr Arg Thr Phe
 100 105 110
 Lys Asn Tyr Phe Asp Val Pro Pro His Lys Tyr Arg Ile Thr Ser Met
 115 120 125
 Pro Gly Glu Ser Arg Tyr Leu Tyr Pro Leu Lys His Cys Ser
 130 135 140

<210> 9122

<211> 337

<212> PRT

<213> *Enterobacter cloacae*

<400> 9122

Met Arg Pro Pro Met Pro Glu Asn Ser Lys Lys Met Thr Asn Leu Arg
 1 5 10 15
 His Pro Ser Pro Arg Ala Val Val Leu Ala Tyr Asp Gly Leu Cys Thr

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<210> 9123
<211> 79
<212> PRT
<213> Enterobacter cloacae
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<210> 9124
<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 9124

Tyr Leu Ile Pro Asp Val Ile Thr His Asn Gly Val Ser Met Gln Ser
 1 5 10 15
 Thr Ala Ser Leu Phe Pro Ala Val Leu Ala Gly Phe Val Ala Val Leu
 20 25 30
 Val Gly Tyr Ala Ser Ser Ala Ala Ile Ile Trp Gln Ala Ala Ala Ala
 35 40 45
 Ala Gly Ala Ser Thr Gln Gln Ile Ala Gly Trp Met Thr Ala Leu Gly
 50 55 60
 Leu Gly Met Gly Ile Ser Thr Leu Val Leu Ser Trp Trp Tyr Lys Ala
 65 70 75 80
 Pro Val Leu Thr Ala Trp Ser Thr Pro Gly Ala Ala Leu Leu Ala Thr
 85 90 95
 Ser Leu His Gly Val Thr Leu Ala Glu Thr Ile Gly Val Phe Ile Phe
 100 105 110
 Ala Asn Thr Leu Ile Leu Leu Cys Gly Val Thr Gly Leu Phe Ala Arg
 115 120 125
 Leu Met Lys Leu Ile Pro His Ser Leu Ala Ala Ala Met Leu Ala Gly
 130 135 140
 Val Leu Leu Gln Phe Gly Leu Lys Ala Phe Ser Asn Leu Glu Gly His
 145 150 155 160
 Ile Phe Leu Cys Gly Ser Met Leu Ala Ala Trp Leu Val Ala Lys Ala
 165 170 175
 Val Ala Pro Arg Tyr Ala Ile Val Ala Thr Leu Leu Val Gly Val Phe
 180 185 190
 Val Ala Trp Ala Gly Gly Asp Val Val Thr Asn Arg Met Thr Leu Ser
 195 200 205
 Val Ile Met Pro Glu Phe Ile Ala Pro Ala Phe Thr Phe Thr Ser Leu
 210 215 220
 Ile Ser Ile Gly Leu Pro Ile Phe Leu Val Thr Met Ala Ser Gln Asn
 225 230 235 240
 Ala Pro Gly Phe Ala Thr Met Gln Ala Ser Gly Tyr Pro Leu Ala Val
 245 250 255
 Ser Pro Leu Ile Val Ala Thr Gly Gly Leu Ala Leu Leu Leu Ser Pro
 260 265 270
 Phe Gly Val Tyr Ser Ile Cys Ile Ala Ala Ile Thr Ala Ala Ile Cys
 275 280 285
 Gln Ser Pro Asp Ala His Pro Asp Ala Ser Lys Arg Trp Leu Ala Ala
 290 295 300
 Ala Ala Ala Gly Gly Phe Tyr Leu Leu Ala Gly Val Phe Gly Gly Ser
 305 310 315 320
 Ile Ser Gly Leu Met Ser Ala Leu Pro Leu Ser Gly Ile Gln Thr Leu
 325 330 335
 Ala Gly Leu Ala Leu Leu Gly Thr Ile Ser Gly Ser Leu Tyr Gln Ala
 340 345 350
 Leu Asn His Glu Ala Glu Arg Asp Ala Ala Ile Val Thr Phe Leu Met
 355 360 365
 Thr Ala Ser Gly Val Thr Leu Leu Gly Ile Gly Ser Ala Phe Trp Gly
 370 375 380
 Leu Val Leu Gly Gly Ile Cys Tyr Ala Val Phe Ser Arg Leu Arg Arg
 385 390 395 400
 Ala

<210> 9125

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 9125

```

Asn Cys Asn Arg Tyr Val Arg Pro Val Val Lys Asn Leu Ala Gly Val
1      5      10      15
Val Asp Leu Phe Ser Arg Lys Val Ile Gly Trp Ser Met Gln Pro Arg
      20      25      30
Met Thr Lys Glu Ile Val Leu Asn Ala Leu Leu Met Ala Val Trp Arg
      35      40      45
Arg Asn Pro Gln Lys Gln Val Leu Val His Ser Asp Gln Gly Ser Gln
      50      55      60
Tyr Thr Ser His Glu Trp Gln Ser Phe Leu Lys Ser His Gly Leu Glu
65      70      75      80
Gly Ser Met Ser Arg Arg Gly Asn Cys His Asp Asn Ala Val Ala Glu
      85      90      95
Ser Phe Phe Gln Leu Leu Lys Arg Glu Arg Ile Lys Lys Arg Ile Tyr
      100      105      110
Gly Thr Arg Asp Glu Ala Arg Ser Asp Ile Phe Asp Tyr Ile Glu Met
      115      120      125
Phe Tyr Asn Ser Lys Arg Arg His Gly Ser Ser Glu Gln Met Pro Pro
      130      135      140
Ala Glu Tyr Glu Asn Leu Tyr Tyr Gln Arg Leu Arg Ser Val
145      150      155

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<210> 9126

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 9126

```

Lys Tyr Gln Asn Pro Asn Lys Ser Ile Thr Leu Asn Tyr Gly Asp Gln
1      5      10      15
Arg Met Thr Ile Pro Thr Leu Thr Thr Glu Arg Leu Ile Leu Arg Pro
      20      25      30
Leu Ile Ala Glu Asp Ala Val Gln Ile Gln Gln Arg Tyr Pro Arg Trp
      35      40      45
Glu Ile Val Arg Tyr Met Val Ala Ser Val Pro Trp Pro Tyr Pro Glu
      50      55      60
Asn Gly Ala Glu Asn Tyr Val Asn Asn Val Ala Leu Pro Asp Met Ala
65      70      75      80
Lys Gly Ile Ala Trp Phe Trp Thr Ile Arg Arg Arg Glu Ala Pro Asp
      85      90      95
Glu Leu Met Gly Leu Ile Cys Leu Tyr Asp Val Glu Asp Asn Asn Arg
      100      105      110
Gly Phe Trp Leu Ala Pro Glu Phe His Gly Gln Gly Tyr Met Arg Glu
      115      120      125
Ala Ser Ile Ala Ala Thr Asp Tyr Trp Phe Asn Thr Leu Asn Lys Pro
      130      135      140
Val Leu Arg Ala Pro Lys Ala Ala Ala Asn Ser Arg Ser Arg Arg Ile
145      150      155      160
Ser Asp Ser Ser Gly Met Arg Leu Ile Arg Thr Glu Lys Lys Ala Tyr
      165      170      175
Val Ser Gly Leu Leu Asp Ser Glu Leu Trp Glu Ile Thr Arg Asp Glu
      180      185      190
Trp Asn Ala Arg Gln Val Ser
      195      200

```

<210> 9127

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 9127

Ala Ile Ile Ser Ala Val Thr Lys Leu Leu Ala Arg Ala Thr Ile Val
 1 5 10 15
 Lys Ser Thr Ser Asp Leu Phe Asn Asp Ile Ile Pro Leu Gly Arg Leu
 20 25 30
 Ile His Met Val Asn Gln Lys Lys Asp Arg Leu Leu Asn Asp Tyr Leu
 35 40 45
 Ser Pro Leu Asp Ile Thr Ala Thr Gln Phe Lys Val Leu Cys Ser Ile
 50 55 60
 Arg Cys Glu Val Cys Ile Thr Pro Val Glu Leu Lys Lys Val Leu Ser
 65 70 75 80
 Val Asp Leu Gly Ala Leu Thr Arg Met Leu Asp Arg Leu Val Cys Lys
 85 90 95
 Gly Trp Val Glu Arg Ser Pro Asn Pro Asn Asp Lys Arg Gly Val Leu
 100 105 110
 Val Lys Leu Thr Ser Asp Gly Ala Ala Met Cys Glu Gln Cys His Gln
 115 120 125
 Leu Val Gly Gln Thr Leu His Gln Glu Leu Thr Lys Asn Leu Thr Ala
 130 135 140
 Asp Glu Val Ala Thr Leu Glu Leu Leu Lys Lys Ile Leu Pro
 145 150 155 160

<210> 9128

<211> 422

<212> PRT

<213> Enterobacter cloacae

<400> 9128

Ser Cys Asn Asn Thr Thr Lys Lys His Lys His Leu Ser Gly Arg Lys
 1 5 10 15
 Met Lys Pro Ser Ile Arg Arg Ser Thr Ala Ala Leu Leu Ala Ser Ser
 20 25 30
 Leu Leu Leu Thr Ile Gly Arg Gly Ala Thr Leu Pro Phe Met Thr Ile
 35 40 45
 Tyr Leu Thr Arg Val Tyr Asp Met Ser Val Glu Asn Ile Gly Tyr Ala
 50 55 60
 Leu Thr Val Ala Leu Thr Ile Gly Val Val Phe Ser Leu Gly Phe Gly
 65 70 75 80
 Ile Leu Ala Asp Lys Phe Asp Lys Lys Arg Tyr Met Leu Ile Ala Ile
 85 90 95
 Val Ala Phe Ile Ala Gly Phe Val Ala Ile Pro Leu Val Asn Asn Val
 100 105 110
 Thr Leu Val Val Leu Phe Phe Ala Leu Ile Asn Cys Ala Tyr Ser Val
 115 120 125
 Phe Ser Thr Val Leu Lys Ala Trp Phe Ala Asp Val Leu Thr Ser Ser
 130 135 140
 Glu Lys Ala His Val Phe Ser Leu Asn Tyr Ser Phe Leu Asn Ile Gly
 145 150 155 160
 Trp Thr Ile Gly Pro Pro Ile Gly Thr Leu Leu Val Met Tyr Ser Leu
 165 170 175
 Gln Leu Pro Phe Leu Leu Ala Ala Phe Cys Ala Ala Leu Pro Leu Gly
 180 185 190
 Phe Ile His Phe Phe Val Gln Lys Ser Ile Ala Ser Asp Ser Pro Glu
 195 200 205
 Glu Lys Met Pro Trp Gln Pro Ser Val Leu Leu Lys Asp Arg Ala Leu
 210 215 220
 Phe Trp Tyr Thr Leu Ser Gly Leu Leu Ala Ser Tyr Val Gly Gly Ser
 225 230 235 240
 Phe Ala Thr Cys Ile Ser Gln Tyr Val Leu Ala Ala His Ala Asp Ser
 245 250 255
 Asp Phe Ala Glu Lys Val Val Ala Val Val Leu Pro Val Asn Ala Ala

```

      260      265      270
Val Val Val Thr Leu Gln Tyr Ala Leu Gly Arg Lys Ile Thr Ala Ser
      275      280      285
Asn Ile Arg Pro Leu Met Thr Ala Ala Thr Leu Phe Ile Leu Gly
      290      295      300
Leu Gly Gly Phe Met Leu Ser Gly Glu Asn Leu Ile Tyr Trp Gly Ile
      305      310      315      320
Ala Ala Ala Ile Phe Thr Leu Gly Glu Ile Ile Tyr Ala Pro Gly Glu
      325      330      335
Tyr Met Leu Ile Asp Asn Ile Ala Pro Pro Gly Met Lys Ala Ser Tyr
      340      345      350
Phe Ser Ala Gln Ala Leu Gly Trp Leu Gly Ala Ala Ala Asn Pro Met
      355      360      365
Ile Thr Gly Leu Ile Leu Thr His Leu Pro His Trp Ser Leu Phe Ile
      370      375      380
Ile Met Met Ala Ala Ile Ile Ala Ala Trp Leu Met Ile Leu Arg Gly
      385      390      395      400
Met Arg Val Lys Ser Glu Asp Arg Val Ser Ser Ser Ala Ala Leu Thr
      405      410      415
Arg Pro Gly Lys Pro
      420

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<210> 9129

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 9129

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Ser Ala Ala Gly Pro Val Arg Cys Gly Ala Thr Ala Ser Phe Ile Gly
1      5      10      15
Leu Asp Asp Gly His Arg His Gly Lys Asn Val Ala Phe Ala Ala Asn
      20      25      30
Gly Phe Asn Val Gly Arg Arg Ala Gly Ile Phe Ile Gln Ala Leu Ser
      35      40      45
His Ala Ala His Gln Glu Ile Asn Arg Thr Leu Lys Gln Leu Gly Ile
      50      55      60
Thr Ser Leu Arg Gln Val Gln Gln Leu Ile Ala Gly Gln His Pro Leu
      65      70      75      80
Arg Met Ile Glu Glu Tyr Ala Gln Lys Ala Ile Phe Arg Pro Ala Glu
      85      90      95
Arg His Asn His Pro Leu Val Ile Asn Gln Met Thr Arg His Gly Ile
      100      105      110
Gln Leu Pro Phe Thr Glu Tyr His Gln Ala Pro Cys Leu Gly His Leu
      115      120      125
Lys Ile Arg Arg His Ser Thr Lys Thr Thr Gln Asp Ser Phe Asp Thr
      130      135      140
Arg Gln Gln Phe Ala Gly His Lys Arg Phe His His Ile Ile Val Gly
      145      150      155      160
Ala His Leu Gln Ser Gln Asp Pro Val Arg Val Leu Val Ala Arg Gly
      165      170      175
Glu His Gln Asp Arg Gln Ile Leu Met Pro Ala Ala Ala Gln Leu Ser
      180      185      190
Thr Gln Arg Gln Ala Ile Ile Ala Gly His His His Val Gln His His
      195      200      205
Gln Val Asp Met Leu Phe Val Glu His Tyr Ala His Leu Phe Pro Val
      210      215      220
Arg Arg Ala Arg Gly Val Val Ala Gly Phe His Glu Val Ile Asp Asn
      225      230      235      240
Gln Phe Thr Asn Ile Pro Val Val Ile Asp Asp Lys Asp Val Ile Asn
      245      250      255
Met Leu His Arg Arg Leu Leu Ile Lys Arg

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260

265

<210> 9130

<211> 416

<212> PRT

<213> Enterobacter cloacae

<400> 9130

Gly Phe Lys Ile Val Ser Ser Ser Phe Arg Gln Arg Ile Pro Asp Ile
 1 5 10 15
 Pro Met Thr Thr His Thr Val Ser Arg Arg Val Ala Trp Leu Arg Val
 20 25 30
 Val Thr Leu Ala Ile Ala Ala Phe Ile Phe Asn Thr Thr Glu Phe Val
 35 40 45
 Pro Val Gly Leu Leu Ser Asp Ile Ala Ala Ser Phe His Met Glu Thr
 50 55 60
 Ala Gln Val Gly Ile Met Leu Thr Ile Tyr Ala Trp Val Val Ala Leu
 65 70 75 80
 Met Ser Leu Pro Phe Met Leu Leu Thr Ser Gln Met Glu Arg Arg Lys
 85 90 95
 Leu Leu Ile Gly Leu Phe Val Val Phe Ile Ala Ser His Val Leu Ser
 100 105 110
 Phe Met Ala Trp Asn Phe Thr Val Leu Val Ile Ser Arg Val Gly Ile
 115 120 125
 Ala Phe Ala His Ala Val Phe Trp Ser Ile Thr Ala Ser Leu Ala Ile
 130 135 140
 Arg Leu Ala Pro Ala Gly Lys Arg Ala Gln Ala Leu Ser Leu Ile Ala
 145 150 155 160
 Thr Gly Thr Ala Leu Ala Met Val Leu Gly Leu Pro Ile Gly Arg Ile
 165 170 175
 Val Gly Gln Tyr Phe Gly Trp Arg Thr Thr Phe Phe Ala Ile Gly Met
 180 185 190
 Gly Ala Leu Ile Thr Leu Val Cys Leu Ile Lys Leu Leu Pro Lys Leu
 195 200 205
 Pro Ser Glu His Ser Gly Ser Leu Lys Ser Leu Pro Leu Leu Met Arg
 210 215 220
 Arg Pro Ala Leu Met Ser Ile Tyr Leu Leu Thr Val Ile Val Val Thr
 225 230 235 240
 Ala His Tyr Thr Ala Tyr Ser Tyr Ile Glu Pro Phe Val Gln Val Val
 245 250 255
 Ala Gly Phe Ser Ala Asn Phe Ala Thr Val Leu Leu Leu Ile Leu Gly
 260 265 270
 Gly Ala Gly Ile Ile Gly Ser Ile Leu Phe Gly Lys Leu Gly Asn Gln
 275 280 285
 His Ala Ser Ala Leu Val Ser Ser Ala Ile Gly Leu Leu Leu Ala Cys
 290 295 300
 Leu Leu Leu Leu Met Pro Ala Ala Gly Ser Glu Ser His Leu Ala Ile
 305 310 315 320
 Leu Ser Leu Phe Trp Gly Val Ala Ile Met Ile Ile Gly Leu Gly Met
 325 330 335
 Gln Val Lys Val Leu Ala Leu Ala Pro Asp Ala Thr Asp Val Ala Met
 340 345 350
 Ser Leu Phe Ser Gly Ile Phe Asn Leu Gly Ile Gly Ala Gly Ala Leu
 355 360 365
 Val Gly Asn Gln Ile Ser Leu His Val Ser Met Ser Ala Ile Gly Tyr
 370 375 380
 Leu Gly Ala Ile Pro Ala Leu Ile Ala Leu Ile Trp Ser Val Leu Ile
 385 390 395 400
 Phe Arg Lys Trp Pro Val Ala Met Glu Glu Gln Thr Ser His Gly
 405 410 415

<210> 9131
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 9131
 Asp Val Thr Glu Glu Ile Met Lys Phe Ile Ala Ser Ala Ala Leu Thr
 1 5 10 15
 Leu Leu Val Leu Val Ser Gly Gln Ser Phe Ala Glu Gln Thr Pro Ser
 20 25 30
 Ala Gly Gln Gln Asn Asn Arg Asp Thr Met Ile Met Pro Ser Thr Gln
 35 40 45
 Asn Gln Ser Pro Trp Asp Phe Asn His Met Gly Ala Gly Ser Asp Lys
 50 55 60
 Ser Asp Glu Leu Gly Val Pro Tyr Tyr Asn His Asp Leu
 65 70 75

<210> 9132
 <211> 163
 <212> PRT
 <213> Enterobacter cloacae

<400> 9132
 Lys Cys Thr Val Arg Ala Leu Leu Leu Arg Tyr Ala Cys Gly Leu Ser
 1 5 10 15
 Pro Ala Lys Arg Thr Pro Glu Ser Ala Tyr Ile Val Arg Gln Thr Pro
 20 25 30
 Ser Ile Cys Ile Ser Ser Ser Pro Leu Ile Thr Thr Thr Cys Ser Ile
 35 40 45
 Thr Pro Ala Ser Cys Gly Val Asp Ser Leu Ser Ala Pro Gly Asp Arg
 50 55 60
 Val Met Glu Lys Trp Ser Asn Leu Ser Cys Ser Ser Gln Gly Lys Ser
 65 70 75 80
 Gly Phe Thr Thr Ile Ala Cys Cys Cys Gly Ser Asn Thr Ala Cys Gly
 85 90 95
 Ser Leu Ser Gly Val Ile Asn Ala Glu Lys Gly Thr Phe Ser Pro Val
 100 105 110
 Ala Ile Phe His Lys Val Glu Thr Val Gly Leu Asp Ser Leu Arg Ser
 115 120 125
 Ile Cys Pro Ser Ile Ala Phe Asp Thr Pro Val Ser Ser Ala Ser Phe
 130 135 140
 Asp Arg Leu Gln Pro Arg Ala Arg Arg Ser Ala Phe Ser Val Val Ala
 145 150 155 160
 Arg Cys

<210> 9133
 <211> 123
 <212> PRT
 <213> Enterobacter cloacae

<400> 9133
 His Ala Lys Ala Asn Pro Ala Ser Gln Pro Leu Phe Leu Ile Pro Ser
 1 5 10 15
 Asp Asn Arg Glu Asn Leu Pro Pro Lys Arg Pro Arg Arg Arg Leu Leu
 20 25 30
 Ser Leu Phe Lys Glu Trp Asn Met Gln Asn Thr Thr Gln Pro Ile Asp
 35 40 45
 Arg Ala Ser Leu Leu Ile Glu Ala Asn Lys Leu Ile Arg Asp His Glu
 50 55 60
 Asp Thr Leu Ala Gly Ile Glu Ala Thr Gly Val Glu Gln Arg Asn Gly

65				70				75				80
Val	Leu	Val	Phe	Ser	Gly	Glu	Tyr	Phe	Leu	Asp	Gln	Gly
				85				90				95
Thr	Pro	Lys	Ser	Thr	Ala	Val	Phe	Asn	Met	Phe	Lys	Tyr
				100				105				110
Thr	Leu	Ser	Glu	Lys	Tyr	His	Leu	Val	Asp			
				115				120				

<210> 9134

<211> 528

<212> PRT

<213> Enterobacter cloacae

<400> 9134

Thr	Glu	Tyr	Glu	Asn	Asn	Asn	Met	Gln	Thr	Ala	Lys	Pro	His	Leu	Glu
1				5				10						15	
Leu	Leu	Thr	Cys	Glu	Ala	Ala	Tyr	Arg	His	Asn	Pro	Thr	Ala	Leu	Phe
			20					25					30		
His	Gln	Val	Cys	Gly	Ala	Arg	Pro	Ala	Thr	Leu	Leu	Leu	Glu	Ser	Ala
			35				40						45		
Asp	Ile	Asp	Ser	Lys	Asp	Asp	Leu	Lys	Ser	Leu	Leu	Leu	Val	Asp	Ser
	50					55				60					
Ala	Leu	Arg	Ile	Thr	Ala	Ser	Gly	Asp	Thr	Val	Thr	Ile	Lys	Ala	Leu
	65				70				75					80	
Ser	Glu	Asn	Gly	Ala	Ser	Leu	Leu	Pro	Leu	Leu	Asp	Ala	Ala	Leu	Pro
			85					90						95	
Ser	Gly	Ile	Glu	Asn	Glu	Arg	His	Pro	Asp	Leu	Arg	Ile	Leu	His	Phe
			100				105						110		
Pro	Pro	Val	Ser	Gln	Leu	Leu	Asp	Glu	Asp	Ala	Arg	Leu	Cys	Ser	Leu
			115				120						125		
Ser	Val	Phe	Asp	Ala	Phe	Arg	Leu	Leu	Gln	Asn	Leu	Val	Ala	Val	Pro
			130			135						140			
Glu	Asp	Glu	Arg	Glu	Ala	Met	Phe	Phe	Gly	Gly	Leu	Phe	Ala	Tyr	Asp
	145				150					155				160	
Leu	Val	Ala	Gly	Phe	Glu	Asn	Leu	Pro	Glu	Thr	Glu	Gln	Gly	Asn	Arg
			165						170					175	
Cys	Pro	Asp	Tyr	Cys	Phe	Tyr	Leu	Ala	Glu	Thr	Leu	Leu	Val	Ile	Asp
			180				185							190	
His	Gln	Lys	Lys	Tyr	Thr	Arg	Ile	Gln	Ala	Ser	Leu	Phe	Thr	Pro	Ser
		195				200							205		
Glu	Ser	Glu	Lys	Asn	Arg	Leu	Ala	Gln	Arg	Ile	Ala	Gln	Leu	Gln	Gln
	210					215					220				
Gln	Met	Ser	Glu	Ala	Pro	Pro	Ala	Leu	Pro	Val	Gln	Arg	Val	Glu	Lys
	225			230						235				240	
Met	Thr	Cys	Glu	Val	Ser	Gln	Thr	Asp	Asp	Gln	Tyr	Gly	Ala	Val	Val
				245				250						255	
Arg	Gln	Met	Gln	Lys	Ala	Ile	Arg	Ala	Gly	Glu	Ile	Phe	Gln	Val	Val
			260				265						270		
Pro	Ser	Arg	Arg	Phe	Ser	Leu	Pro	Cys	Pro	Ser	Pro	Leu	Ala	Ala	Tyr
		275				280						285			
Asp	Val	Leu	Lys	Lys	Ser	Asn	Pro	Ser	Pro	Tyr	Met	Phe	Phe	Met	Gln
	290				295					300					
Asp	Asn	Asp	Phe	Thr	Leu	Phe	Gly	Ala	Ser	Pro	Glu	Ser	Ser	Leu	Lys
	305				310				315					320	
Tyr	Asp	Ala	Thr	Ser	Arg	Gln	Ile	Glu	Ile	Tyr	Pro	Ile	Ala	Gly	Thr
			325					330						335	
Arg	Pro	Arg	Gly	Arg	Arg	Ala	Asp	Gly	Ser	Leu	Asp	Arg	Asp	Leu	Asp
			340				345					350			
Ser	Arg	Ile	Glu	Leu	Glu	Met	Arg	Thr	Asp	His	Lys	Glu	Leu	Ser	Glu
		355				360						365			
His	Leu	Met	Leu	Val	Asp	Leu	Ala	Arg	Asn	Asp	Leu	Ala	Arg	Ile	Cys

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      370              375              380
Thr Pro Gly Ser Arg Tyr Val Ala Asp Leu Thr Lys Val Asp Arg Tyr
385                               390                               400
Ser Phe Val Met His Leu Val Ser Arg Val Val Gly Glu Leu Arg His
      405                               410                               415
Asp Leu Asp Val Leu His Ala Tyr Arg Ala Cys Met Asn Met Gly Thr
      420                               425                               430
Leu Ser Gly Ala Pro Lys Val Arg Ala Met Gln Leu Ile Ala Glu Ala
      435                               440                               445
Glu Gly Arg Arg Arg Gly Ser Tyr Gly Gly Ala Val Gly Tyr Phe Thr
      450                               455                               460
Ala His Gly Asp Leu Asp Thr Cys Ile Val Ile Arg Ser Ala Tyr Val
      465                               470                               475
Glu Asp Gly Ile Ala Thr Val Gln Ala Gly Ala Gly Ile Val Leu Asp
      485                               490                               495
Ser Val Pro Gln Ser Glu Ala Asp Glu Thr Arg Ser Lys Ala Arg Ala
      500                               505                               510
Val Leu Arg Ala Ile Ala Thr Ala His His Ala Gln Glu Ile Phe
      515                               520                               525

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<210> 9135

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 9135

```

Ser Pro Asn Arg Ala Leu Lys Thr Pro Ala Ser Trp His Arg Tyr Leu
1                               5                               10                               15
Lys Leu Cys Val His Ile Lys Glu Glu Lys Met Thr Thr Leu Leu Asn
      20                               25                               30
Pro Tyr Phe Gly Glu Phe Gly Gly Met Tyr Val Pro Gln Ile Leu Met
      35                               40                               45
Pro Ala Leu Arg Gln Leu Glu Glu Ala Phe Val Ser Ala Gln Lys Asp
      50                               55                               60
Pro Ala Phe Gln Ala Glu Phe Thr Asp Leu Lys Asn Tyr Ala Gly
      65                               70                               75                               80
Arg Pro Thr Ala Leu Thr Lys Cys Arg Asn Leu Thr Glu Gly Thr Lys
      85                               90                               95
Thr Thr Leu Tyr Leu Lys Arg Glu Asp Leu Leu His Gly Gly Ala His
      100                               105                               110
Lys Thr Asn Gln Val Leu Gly Gln Ala Leu Leu Ala Lys Arg Met Gly
      115                               120                               125
Lys Thr Glu Ile Ile Ala Glu Thr Gly Ala Gly Gln His Gly Val Ala
      130                               135                               140
Ser Ala Leu Ala Ser Ala Leu Leu Gly Leu Lys Cys Arg Ile Tyr Met
      145                               150                               155                               160
Gly Ala Lys Asp Val Glu Arg Gln Ser Pro Asn Val Phe Arg Met Arg
      165                               170                               175
Leu Met Gly Ala Glu Val Ile Pro Val His Ser Gly Ser Ala Thr Leu
      180                               185                               190
Lys Asp Ala Cys Asn Glu Ala Leu Arg Asp Trp Ser Gly Ser Tyr Glu
      195                               200                               205
Thr Ala His Tyr Met Leu Gly Thr Ala Ala Gly Pro His Pro Phe Pro
      210                               215                               220
Thr Ile Val Arg Glu Phe Gln Arg Met Ile Gly Glu Glu Thr Lys Ala
      225                               230                               235                               240
Gln Ile Leu Glu Lys Glu Gly Arg Leu Pro Asp Ala Val Ile Ala Cys
      245                               250                               255
Val Gly Gly Gly Ser Asn Ala Ile Gly Met Phe Ala Asp Phe Ile Asp
      260                               265                               270
Glu Thr Ser Val Gly Leu Ile Gly Val Glu Pro Ala Gly His Gly Ile

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<210> 9136
<211> 350
<212> PRT
<213> Enterobacter cloacae
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[illegible]

275	280	285
Met Arg Leu Val Ala Pro	Ala Val Ile Ser Trp Leu Leu Ala Lys Thr	
290	295	300
Leu Leu Leu Leu Phe Ala Pro Asn Phe Ala Val Leu Thr Pro Asn Val		
305	310	315
Gly Ala Val Val Ala Asn Thr Leu Ser Asn Leu Ile Ser Ala Val Leu		
	325	330
Leu Val Tyr Leu Phe Arg Leu Tyr Met Leu Ile Arg Gln		
340	345	350

<210> 9137
 <211> 155
 <212> PRT
 <213> Enterobacter cloacae

<400> 9137
Pro Tyr Ser Leu Gln Pro Glu Ile Ile Val Ala Ser Arg Leu Lys Ser
1 5 10 15
Ser Val Thr Ser Leu Lys Thr Met Thr Thr Asn Asp Ala Pro Gln Gly
20 25 30
Glu Leu Val Leu Arg Thr Leu Ala Met Pro Ala Asp Thr Asn Ala Asn
35 40 45
Gly Asp Ile Phe Gly Gly Trp Leu Met Ser Gln Met Asp Met Gly Gly
50 55 60
Ala Ile Leu Ala Lys Glu Ile Ala His Gly Arg Val Val Thr Val Arg
65 70 75 80
Val Asp Gly Met Thr Phe Leu Arg Pro Val Ala Val Gly Asp Val Val
85 90 95
Cys Cys Tyr Ala Arg Cys Val Lys Arg Gly Thr Thr Ser Val Ser Ile
100 105 110
Asn Ile Glu Val Trp Val Lys Lys Val Ser Ser Glu Pro Ile Gly Gln
115 120 125
Arg Tyr Lys Ala Thr Glu Ala Leu Phe Ile Tyr Val Ala Val Asp Ser
130 135 140
Asp Gly Lys Pro Arg Gln Leu Pro Arg Ser
145 150 155

<210> 9138
 <211> 915
 <212> PRT
 <213> Enterobacter cloacae

<400> 9138
Ser Phe Val Leu Leu Cys Val Thr Gln Val Gly Ser Ala Leu Thr Ile
1 5 10 15
Leu Ser Asp Val Ser Ser Ala Gly Leu Leu Lys Glu Phe Lys His Tyr
20 25 30
Gln Glu Ser Ile Met Ala Val Thr Asn Ile Ala Glu Leu Asn Ala Leu
35 40 45
Val Glu Arg Val Lys Lys Ala Gln Arg Glu Tyr Ala Asn Phe Thr Gln
50 55 60
Glu Gln Val Asp Lys Ile Phe Arg Ala Ala Ala Leu Ala Ala Ala Asp
65 70 75 80
Ala Arg Ile Pro Leu Ala Lys Met Ala Val Ala Glu Ser Gly Met Gly
85 90 95
Ile Val Glu Asp Lys Val Ile Lys Asn His Phe Ala Ser Glu Tyr Ile
100 105 110
Tyr Asn Ala Tyr Lys Asp Glu Lys Thr Cys Gly Val Leu Ser Glu Asp
115 120 125
Asp Thr Phe Gly Thr Ile Thr Ile Ala Glu Pro Ile Gly Ile Ile Cys
130 135 140

Gly Ile Val Pro Thr Thr Asn Pro Thr Ser Thr Ala Ile Phe Lys Ser
 145 150 155 160
 Leu Ile Ser Leu Lys Thr Arg Asn Ala Ile Ile Phe Ser Pro His Pro
 165 170 175
 Arg Ala Lys Asp Ala Thr Asn Lys Ala Ala Asp Ile Val Leu Gln Ala
 180 185 190
 Ala Ile Ala Ala Gly Ala Pro Lys Asp Leu Ile Gly Trp Ile Asp Gln
 195 200 205
 Pro Ser Val Glu Leu Ser Asn Ala Leu Met His His Pro Asp Ile Asn
 210 215 220
 Leu Ile Leu Ala Thr Gly Gly Pro Gly Met Val Lys Ala Ala Tyr Ser
 225 230 235 240
 Ser Gly Lys Pro Ala Ile Gly Val Gly Ala Gly Asn Thr Pro Val Val
 245 250 255
 Ile Asp Glu Thr Ala Asp Ile Lys Arg Ala Val Ala Ser Val Leu Met
 260 265 270
 Ser Lys Thr Phe Asp Asn Gly Val Ile Cys Ala Ser Glu Gln Ser Val
 275 280 285
 Val Val Val Asp Ser Val Tyr Asp Ala Val Arg Glu Arg Phe Ala Ser
 290 295 300
 His Gly Gly Tyr Leu Leu Gln Gly Lys Glu Leu Lys Ala Val Gln Asp
 305 310 315 320
 Val Ile Leu Lys Asn Gly Ala Leu Asn Ala Ala Ile Val Gly Gln Pro
 325 330 335
 Ala Tyr Lys Ile Ala Glu Leu Ala Gly Phe Ser Val Pro Ala Thr Thr
 340 345 350
 Lys Ile Leu Ile Gly Glu Val Lys Val Val Asp Glu Ser Glu Pro Phe
 355 360 365
 Ala His Glu Lys Leu Ser Pro Thr Leu Ala Met Tyr Arg Ala Lys Asp
 370 375 380
 Phe Asp Asp Ala Val Glu Lys Ala Glu Lys Leu Val Ala Met Gly Gly
 385 390 395 400
 Ile Gly His Thr Ser Cys Leu Tyr Thr Asp Gln Asp Asn Gln Pro Glu
 405 410 415
 Arg Val Ala Tyr Phe Gly Gln Lys Met Lys Thr Ala Arg Ile Leu Ile
 420 425 430
 Asn Thr Pro Ala Ser Gln Gly Gly Ile Gly Asp Leu Tyr Asn Phe Lys
 435 440 445
 Leu Ala Pro Ser Leu Thr Leu Gly Cys Gly Ser Trp Gly Gly Asn Ser
 450 455 460
 Ile Ser Glu Asn Val Gly Pro Lys His Leu Ile Asn Lys Lys Thr Val
 465 470 475 480
 Ala Lys Arg Ala Glu Asn Met Leu Trp His Lys Leu Pro Lys Ser Ile
 485 490 495
 Tyr Phe Arg Arg Gly Ser Leu Pro Ile Ala Leu Asp Glu Val Ile Thr
 500 505 510
 Asp Gly His Lys Arg Ala Leu Ile Val Thr Asp Arg Phe Leu Phe Asn
 515 520 525
 Asn Gly Tyr Ala Asp Gln Ile Thr Ser Val Leu Lys Ala Ala Gly Val
 530 535 540
 Glu Thr Glu Val Phe Phe Glu Val Glu Ala Asp Pro Thr Leu Ser Val
 545 550 555 560
 Val Arg Lys Gly Ala Glu Leu Ala Asn Ser Phe Lys Pro Asp Val Ile
 565 570 575
 Ile Ala Leu Gly Gly Gly Ser Pro Met Asp Ala Ala Lys Ile Met Trp
 580 585 590
 Val Met Tyr Glu His Pro Glu Thr His Phe Glu Glu Leu Ala Leu Arg
 595 600 605
 Phe Met Asp Ile Arg Lys Arg Ile Tyr Lys Phe Pro Lys Met Gly Val
 610 615 620
 Lys Ala Lys Met Ile Ala Val Thr Thr Thr Ser Gly Thr Gly Ser Glu

625 630 635 640
 Val Thr Pro Phe Ala Val Val Thr Asp Ala Thr Gly Gln Lys Tyr
 645 650 655
 Pro Leu Ala Asp Tyr Ala Leu Thr Pro Asp Met Ala Ile Val Asp Ala
 660 665 670
 Asn Leu Val Met Glu Met Pro Lys Ser Leu Cys Ala Phe Gly Gly Leu
 675 680 685
 Asp Ala Val Thr His Ala Leu Glu Ala Tyr Val Ser Val Leu Ala Ser
 690 695 700
 Glu Phe Ser Asp Gly Gln Ala Leu Gln Ala Leu Lys Leu Leu Lys Glu
 705 710 715 720
 Asn Leu Pro Ala Ser Tyr Asn Glu Gly Ser Lys Asn Pro Val Ala Arg
 725 730 735
 Glu Arg Val His Ser Ala Ala Thr Ile Ala Gly Ile Ala Phe Ala Asn
 740 745 750
 Ala Phe Leu Gly Val Cys His Ser Met Ala His Lys Leu Gly Ser Gln
 755 760 765
 Phe His Ile Pro His Gly Leu Ala Asn Ala Leu Leu Ile Ser Asn Val
 770 775 780
 Ile Arg Tyr Asn Ala Asn Asp Asn Pro Thr Lys Gln Thr Ala Phe Ser
 785 790 795 800
 Gln Tyr Asp Arg Pro Gln Ala Arg Arg Arg Tyr Ala Glu Ile Ala Asp
 805 810 815
 His Leu Gly Leu Ser Ala Pro Gly Asp Arg Thr Ala Ala Lys Ile Glu
 820 825 830
 Lys Leu Leu Ala Trp Leu Glu Ser Leu Lys Ala Glu Leu Gly Ile Pro
 835 840 845
 Lys Ser Ile Arg Glu Ala Gly Val Gln Glu Ala Asp Phe Leu Ala His
 850 855 860
 Val Asp Lys Leu Ser Glu Asp Ala Phe Asp Asp Gln Cys Thr Gly Ala
 865 870 875 880
 Asn Pro Arg Tyr Pro Leu Ile Ser Glu Leu Lys Gln Ile Leu Leu Asp
 885 890 895
 Thr Tyr Tyr Ala Arg Asn Phe Thr Val Ala Asn Ser Glu Arg Arg Ser
 900 905 910
 Ile Pro Asn
 915

<210> 9139

<211> 214

<212> PRT

<213> *Enterobacter cloacae*

<400> 9139

Asn Arg Asn Asp Ile Arg Cys Pro Ala Arg Pro Gln Thr Gly Asp Ile
 1 5 10 15
 Ala Met Ser Glu Asp Arg His Gln Gln Arg Gln Arg Leu Lys Glu
 20 25 30
 Gln Val Asp Ala Arg Val Ala Ala Ala Gln Asp Glu Arg Gly Ile Leu
 35 40 45
 Ile Val Phe Thr Gly Asn Gly Lys Gly Lys Thr Thr Ala Ala Phe Gly
 50 55 60
 Thr Ala Thr Arg Ala Val Gly His Gly Gln Lys Val Gly Val Ile Gln
 65 70 75 80
 Phe Ile Lys Gly Glu Trp Pro Asn Gly Glu Arg Asn Leu Leu Glu Pro
 85 90 95
 His Gly Val Glu Phe Gln Val Met Ala Thr Gly Phe Thr Trp Asp Thr
 100 105 110
 Gln Asn Arg Glu Thr Asp Thr Ala Ala Cys Leu Ala Val Trp Glu His
 115 120 125
 Ala Lys Arg Met Leu Ser Asp Pro Ser Leu Asn Met Val Leu Leu Asp

130 135 140
 Glu Ile Thr Tyr Met Val Ala Tyr Asp Tyr Leu Ser Leu Glu Ala Val
 145 150 155 160
 Leu Ala Ala Leu Lys Asn Arg Pro Ala His Gln Thr Val Ile Val Thr
 165 170 175
 Gly Arg Gly Cys His Arg Asp Ile Leu Glu Leu Ala Asp Thr Val Ser
 180 185 190
 Glu Leu Arg Pro Val Lys His Ala Phe Asp Ala Gly Ile Lys Ala Gln
 195 200 205
 Ile Gly Ile Asp Tyr
 210

<210> 9140

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 9140

Asn Ser Gly Glu Cys Arg Met Lys Glu Ile Val Pro Asp Tyr Arg Leu
 1 5 10 15
 Asp Met Val Gly Glu Pro Cys Pro Tyr Pro Ala Val Ala Thr Leu Glu
 20 25 30
 Ala Leu Pro Gln Leu Lys Lys Gly Glu Ile Leu Glu Val Val Ser Asp
 35 40 45
 Cys Pro Gln Ser Ile Asn Asn Ile Pro Leu Asp Ala Lys Asn His Gly
 50 55 60
 Tyr Thr Val Leu Asp Ile Gln Gln Asp Gly Pro Thr Ile Arg Tyr Leu
 65 70 75 80
 Ile Gln Lys

<210> 9141

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 9141

Phe Val Ser Asn Trp Asp Arg Arg Met Lys Gln Phe Leu Asp Phe Leu
 1 5 10 15
 Pro Leu Ile Val Phe Phe Ala Phe Tyr Lys Leu Tyr Asp Ile Tyr Ala
 20 25 30
 Gly Thr Leu Ala Leu Ile Val Ala Thr Ala Val Val Leu Ile Tyr Ser
 35 40 45
 Trp Val Arg Tyr Arg Lys Val Glu Lys Met Ala Leu Ile Thr Phe Leu
 50 55 60
 Met Val Ala Val Phe Gly Gly Leu Thr Leu Phe Phe His Asn Asp Glu
 65 70 75 80
 Phe Ile Lys Trp Lys Val Thr Val Ile Tyr Gly Leu Phe Ala Gly Ala
 85 90 95
 Leu Leu Ile Ser Gln Trp Val Met Lys Lys Pro Leu Ile Gln Arg Met
 100 105 110
 Leu Gly Lys Glu Leu Thr Leu Pro Gln Ala Val Trp Gly Arg Leu Asn
 115 120 125
 Ile Ala Trp Ala Leu Phe Phe Ile Leu Cys Gly Leu Ala Asn Ile Tyr
 130 135 140
 Ile Ala Phe Trp Leu Pro Gln Asn Ile Trp Val Asn Phe Lys Val Phe
 145 150 155 160
 Gly Leu Thr Ala Leu Thr Leu Ile Phe Thr Leu Leu Ser Gly Val Tyr
 165 170 175
 Ile Tyr Arg His Met Pro Gln Asp Asp Lys His
 180 185

<210> 9142
 <211> 684
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9142

Ala Leu Lys Gln Gln Pro Gly Val Ser Ile Ile Thr Ala Lys Asp Ile
 1 5 10 15
 Glu Lys Asp Pro Pro Val Asn Asp Leu Ser Glu Ile Ile Arg Lys Met
 20 25 30
 Pro Gly Val Asn Leu Thr Gly Asn Ser Ala Thr Gly Ser Arg Gly Asn
 35 40 45
 Asn Arg Gln Ile Asp Ile Arg Gly Met Gly Pro Glu Asn Thr Leu Ile
 50 55 60
 Leu Ile Asp Gly Val Pro Val Thr Ser Arg Asn Ser Val Arg Tyr Ser
 65 70 75 80
 Trp Arg Gly Glu Arg Asp Thr Arg Gly Asp Thr Asn Trp Val Pro Pro
 85 90 95
 Glu Met Val Glu Arg Ile Glu Val Leu Arg Gly Pro Ala Ala Ala Arg
 100 105 110
 Tyr Gly Ser Gly Ala Ala Gly Gly Val Val Asn Ile Ile Thr Lys Arg
 115 120 125
 Pro Thr Asn Asp Trp His Gly Ser Leu Ser Leu Tyr Thr Asn Gln Pro
 130 135 140
 Glu Asn Asp Lys Glu Gly Ala Thr Lys Arg Ala Asn Phe Asp Leu Ser
 145 150 155 160
 Gly Pro Leu Ala Gly Asp Ala Leu Thr Met Arg Leu Tyr Gly Asn Ile
 165 170 175
 Asn Lys Thr Asp Ala Asp Ala Gln Asp Ile Asn Thr Ala Gln Asn Gly
 180 185 190
 Ser Tyr Ala Ala Gly Arg Glu Gly Val Arg Asn Lys Asp Ile Asn Ala
 195 200 205
 Leu Leu Ser Trp Lys Leu Thr Pro Gln Gln Ile Ile Asp Phe Asp Tyr
 210 215 220
 Ser Tyr Ser Arg Gln Gly Asn Ile Tyr Ala Gly Asp Thr Gln Tyr Ser
 225 230 235 240
 Asn Ser Asn Val Ser Pro Asp Gly Leu Val Ser Ser Leu Tyr Gly His
 245 250 255
 Glu Thr Asn Arg Met Tyr Arg Gln Ser Tyr Gly Ile Thr His Asn Gly
 260 265 270
 Ile Trp Asp Trp Gly Gln Ser Lys Phe Gly Val Tyr Tyr Glu Lys Thr
 275 280 285
 Asn Asn Thr Arg Leu Glu Gly Ser Thr Gly Lys Val Glu Gly Met
 290 295 300
 Ile Asn Ser Asp Lys Tyr Asp Thr Ser Arg Leu Glu Ser Tyr Arg Ser
 305 310 315 320
 Thr Gly Glu Leu Asn Ile Pro Phe Phe Trp Leu Val Glu Gln Thr Leu
 325 330 335
 Thr Val Gly Ala Glu Trp Asn Arg Asp Glu Leu Asn Asp Pro Ala Ser
 340 345 350
 Met Gln Ala Thr Asn Val Ser Gly Glu Val Ile Asn Gly Val Pro Gly
 355 360 365
 Thr Ala Ser Glu Arg Asn Ser Lys Asn Ser Ala Asp Leu Thr Gly Ile
 370 375 380
 Tyr Leu Glu Asp Asn Ile Glu Ala Arg Gln Gly Thr Asn Leu Ile Pro
 385 390 395 400
 Gly Ile Arg Phe Asp Tyr His Asn Gln Phe Gly Ser Asn Trp Ser Pro
 405 410 415
 Ser Leu Asn Val Ser Gln Asp Leu Gly Asp Met Phe Lys Val Lys Ala
 420 425 430

Gly Ile Ala Arg Val Phe Lys Ala Pro Asn Leu Tyr Gln Ser Ser Glu
 435 440
 Gly Tyr Leu Leu Ser Thr Arg Gly Asn Gly Cys Pro Asn Asn Val Ser
 450 455 460
 Glu Gly Ser Cys Tyr Leu Leu Gly Asn Pro Asp Leu Asp Pro Glu Ile
 465 470 475 480
 Ser Val Asn Lys Glu Ile Gly Leu Ala Phe Ala Leu Glu Gly Tyr Glu
 485 490 495
 Ala Gly Ile Thr Trp Phe Arg Asn Asp Tyr Lys Asn Lys Ile Val Ser
 500 505 510
 Gly Thr Asp Val Leu Gly Gln Thr Ser Ser Gly Ala Asn Ile Leu Gln
 515 520 525
 Trp Gln Asn Gly Gly Lys Ala Val Val Glu Gly Leu Glu Gly Asn Leu
 530 535 540
 Thr Val Pro Val Ile Arg Asp Thr Leu Thr Trp Arg Thr Asn Ala Thr
 545 550 555 560
 Tyr Met Ile Gln Ser Lys Ser Lys Asp Thr Gly Asn Pro Leu Ser Ile
 565 570 575
 Ile Pro Lys Tyr Thr Val Asn Thr Met Leu Asp Trp Glu Val Asn Ser
 580 585 590
 Lys Leu Ser Ala Asn Val Ser Trp Thr Met Tyr Gly Arg Gln Lys Pro
 595 600 605
 Arg Glu Asn Ala Glu Ile Arg Lys Glu Glu Asn Ala Met Ser Asn Arg
 610 615 620
 Glu Ile Gly Ala Tyr Ser Ile Val Gly Ile Gly Ser Asn Tyr Gln Leu
 625 630 635 640
 Thr Lys Asn Leu Arg Leu Asn Ala Gly Ile Ser Asn Leu Phe Asp Lys
 645 650 655
 Gln Ile Tyr Arg Glu Asn Asp Gly Ala Ser Thr Tyr Asn Glu Pro Gly
 660 665 670
 Arg Ala Tyr Tyr Ala Gly Val Thr Leu Ser Phe
 675 680

<210> 9143

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 9143

Arg Asn Cys His Phe Tyr Arg Leu Arg Ser Phe Ala Val Leu Tyr Val
 1 5 10 15
 Ile Tyr Ala Glu Asp Val Pro Asp Ser Leu Glu Lys Arg Leu Ser Val
 20 25 30
 Arg Pro Ala His Leu Ala Arg Leu Gln Leu Leu Gln Asp Glu Gly Arg
 35 40 45
 Leu Leu Thr Ala Gly Pro Met Pro Ala Val Asp Ser Asn Asp Pro Gly
 50 55 60
 Ala Ala Gly Phe Thr Gly Ser Ala Val Ile Ala Glu Phe Glu Ser Leu
 65 70 75 80
 Glu Ala Ala Gln Ala Trp Ala Glu Ala Asp Pro Tyr Val Ala Ala Gly
 85 90 95
 Val Tyr Glu Lys Val Thr Val Arg Pro Tyr Lys Lys Val Phe
 100 105 110

<210> 9144

<211> 504

<212> PRT

<213> Enterobacter cloacae

<400> 9144

Ile Leu Met Arg Lys Leu Ile Thr Ile Arg Phe Gln Lys Asp Phe Leu

1 Phe Met Thr Thr 5 Phe Tyr Thr Val Val Ser Trp Leu Val Ile Leu Gly
 Tyr Trp Leu Leu 20 Ile Ala Gly Val Thr 25 Leu Arg Ile Leu Met Lys Arg
 Arg Ala Val Pro Ser Ala Met Ala Trp Leu Leu Ile Ile Tyr Ile Leu
 50 55 60
 Pro Leu Val Gly Ile Ile Ala Tyr Leu Ser Phe Gly Glu Leu His Leu
 65 70 75 80
 Gly Lys Arg Arg Ala Glu Arg Ala Arg Ala Met Trp Pro Ser Thr Ala
 85 90 95
 Lys Trp Leu Ala Asp Leu Lys Ala Cys Lys His Ile Phe Ala Glu Glu
 100 105 110
 Asn Ser Ser Val Ala Ala Ser Leu Phe Lys Leu Cys Glu Arg Arg Gln
 115 120 125
 Gly Ile Ala Gly Val Lys Gly Asn Gln Leu Gln Leu Met Thr Ser Ser
 130 135 140
 Asp Asp Val Met Gln Ala Leu Ile Arg Asp Ile Gln Leu Ala Arg His
 145 150 155 160
 Asn Ile Glu Met Val Phe Tyr Ile Trp Gln Pro Gly Gly Met Ala Asp
 165 170 175
 Gln Val Ala Glu Ser Leu Met Ala Ala Arg Arg Gly Ile His Cys
 180 185 190
 Arg Leu Met Leu Asp Ser Ala Gly Ser Val Ala Phe Phe Arg Ser Pro
 195 200 205
 Trp Ala Gly Met Met Arg Asn Ala Gly Ile Glu Val Val Glu Ala Leu
 210 215 220
 Lys Val Asn Leu Phe Arg Val Phe Leu Arg Arg Met Asp Leu Arg Gln
 225 230 235 240
 His Arg Lys Met Val Leu Ile Asp Asn Tyr Ile Ala Tyr Thr Gly Ser
 245 250 255
 Met Asn Met Val Asp Pro Arg Phe Phe Lys Gln Asp Ser Gly Val Gly
 260 265 270
 Gln Trp Ile Asp Leu Met Ala Arg Met Glu Gly Pro Ile Ala Thr Ser
 275 280 285
 Met Gly Ile Val Tyr Ser Cys Asp Trp Glu Ile Glu Thr Gly Lys Arg
 290 295 300
 Ile Leu Pro Pro Pro Pro Asp Gly Asn Ile Met Pro Phe Glu Glu Ala
 305 310 315 320
 Ser Gly His Thr Ile His Thr Ile Ala Ser Gly Pro Gly Phe Pro Glu
 325 330 335
 Asp Leu Ile His Gln Ala Leu Leu Thr Ala Ala Tyr Ser Ala Arg Glu
 340 345 350
 Tyr Leu Ile Met Thr Thr Pro Tyr Phe Val Pro Ser Asp Asp Leu Leu
 355 360 365
 His Ala Ile Cys Thr Ala Ala Gln Arg Gly Val Asp Val Ser Ile Ile
 370 375 380
 Met Pro Arg Lys Asn Asp Ser Leu Leu Val Gly Trp Ala Ser Arg Ala
 385 390 395 400
 Phe Phe Ser Glu Leu Leu Ala Ala Gly Val Lys Ile Tyr Gln Phe Glu
 405 410 415
 Gly Gly Leu Leu His Thr Lys Ser Val Leu Val Asp Gly Glu Leu Ser
 420 425 430
 Leu Val Gly Thr Val Asn Leu Asp Met Arg Ser Leu Trp Leu Asn Phe
 435 440 445
 Glu Ile Thr Leu Val Ile Asp Asp Ala Gly Phe Gly Gly Asp Leu Ala
 450 455 460
 Ala Val Gln Asp Asp Tyr Ile Ser Arg Ser Arg Leu Leu Asp Ala Arg
 465 470 475 480
 Leu Trp Ala Lys Arg Pro Leu Trp Gln Arg Ile Ala Glu Arg Leu Phe
 485 490 495

Tyr Phe Phe Ser Pro Leu Leu
500

<210> 9145

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9145

Gln Val Val Ile Met Glu Met Asp Leu Asn Asn Arg Leu Thr Glu Asp
1 5 10 15
Glu Thr Leu Glu Gln Ala Tyr Asp Ile Phe Leu Glu Leu Ala Val Asp
20 25 30
Asn Leu Asp Pro Ala Asp Val Ile Leu Phe Asn Leu Gln Phe Glu Glu
35 40 45
Arg Gly Gly Ala Glu Leu Phe Asp Pro Ser Glu Asp Trp Ala Glu His
50 55 60
Val Asp Phe Asp Leu Asn Pro Asp Phe Phe Ala Glu Val Val Ile Gly
65 70 75 80
Leu Ala Asp Glu Asp Gly Gly Glu Ile Asn Asp Ile Phe Ala Arg Val
85 90 95
Leu Leu Cys Arg Glu Lys Asp His Lys Leu Cys His Ile Leu Trp Arg
100 105 110
Glu

<210> 9146

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 9146

Ser Asn Thr Glu Ser Ile Met Gly Gln Arg His Glu Thr Cys Gln Pro
1 5 10 15
Gly Leu Asp Asn His Met Gln Leu Lys Arg Val Ala Glu Ala Lys Leu
20 25 30
Pro Thr Pro Trp Gly Asp Phe Leu Met Val Gly Phe Glu Glu Leu Ala
35 40 45
Thr Gly Gln Asp His Val Ala Leu Val Phe Gly Asp Ile Ser Gly Gln
50 55 60
Thr Pro Val Leu Ser Arg Val His Ser Glu Cys Leu Thr Gly Asp Ala
65 70 75 80
Leu Phe Ser Leu Arg Cys Asp Cys Gly Phe Gln Leu Glu Ala Ala Leu
85 90 95
Ser His Ile Ala Glu Glu Gly Arg Gly Val Leu Leu Tyr His Arg Gln
100 105 110
Glu Gly Arg Asn Ile Gly Leu Leu Asn Lys Ile Arg Ala Tyr Ala Leu
115 120 125
Gln Asp Gln Gly Tyr Asp Thr Val Glu Ala Asn His Gln Leu Gly Phe
130 135 140
Ala Ala Asp Glu Arg Asp Phe Thr Leu Cys Ala Asp Met Phe Lys Leu
145 150 155 160
Leu Gly Val Asp Glu Val Arg Leu Leu Thr Asn Asn Pro Lys Lys Val
165 170 175
Glu Ile Leu Thr Glu Ala Gly Ile Asn Ile Val Glu Arg Val Pro Leu
180 185 190
Ile Val Gly Arg Asn Pro Lys Asn Ala His Tyr Leu Asp Thr Lys Ala
195 200 205
Ala Lys Met Gly His Leu Leu Ser Glu
210 215

<210> 9147
 <211> 257
 <212> PRT
 <213> Enterobacter cloacae

<400> 9147
 Gly Ala Thr Val His Tyr Gln Pro Gln Lys Asn Leu Leu Gln Asn Arg
 1 5 10 15
 Ile Ile Leu Val Thr Gly Ala Ser Asp Gly Ile Gly Arg Glu Ala Ala
 20 25 30
 Leu Thr Tyr Ser Glu Tyr Gly Ala Ser Leu Ile Leu Leu Gly Arg Asn
 35 40 45
 Glu Glu Lys Leu Lys Ala Val Ala Arg Glu Ile Glu Asn Ala Gly Gly
 50 55 60
 Thr Pro Thr Pro Trp Tyr Thr Leu Asp Leu Leu Thr Cys Thr Pro Ala
 65 70 75 80
 Ser Cys Gln Ala Ile Ala Gln Arg Ile Ser Thr His Tyr Pro Arg Leu
 85 90 95
 Asp Gly Val Leu His Asn Ala Gly Leu Leu Gly Glu Val Arg Pro Met
 100 105 110
 Asp Glu Gln Asp Pro Glu Ile Trp Gln Gln Val Met Gln Val Asn Val
 115 120 125
 Asn Gly Thr Phe Phe Leu Thr Gln Ala Leu Leu Pro Leu Leu Leu Asn
 130 135 140
 Ser Asp Ser Gly Ser Leu Val Phe Thr Ser Ser Ser Val Gly Arg Gln
 145 150 155 160
 Gly Arg Ala Asn Trp Gly Ala Tyr Ala Val Ser Lys Phe Ala Thr Glu
 165 170 175
 Gly Met Met Gln Val Leu Ala Glu Glu Tyr Gln Ser Arg His Leu Arg
 180 185 190
 Val Asn Cys Ile Asn Pro Gly Gly Thr Arg Thr Lys Met Arg Ala Ser
 195 200 205
 Ala Phe Pro Thr Glu Asp Pro Gln Lys Leu Lys Thr Pro Ala Asp Ile
 210 215 220
 Met Pro Leu Tyr Leu Trp Leu Met Gly Asp Asp Ser Arg Arg Lys Thr
 225 230 235 240
 Gly Met Thr Phe Asp Ala Gln Pro Gly Arg Lys Pro Gly Ile Ser Gln
 245 250 255

<210> 9148
 <211> 551
 <212> PRT
 <213> Enterobacter cloacae

<400> 9148
 Ser Ala Arg Gly Thr Ala Arg His Cys Tyr Arg Thr Pro Cys Thr Gly
 1 5 10 15
 Asp Phe Leu Met Ala Asp Ile Leu Leu Leu Asp Asn Ile Asp Ser Phe
 20 25 30
 Thr Tyr Asn Leu Ala Asp Gln Leu Arg Ala Asn Gly His Asn Val Val
 35 40 45
 Ile Tyr Arg Asn His Val Pro Ala Gln Thr Leu Ile Asp Arg Leu Ala
 50 55 60
 Thr Met Gln Asn Pro Val Leu Met Leu Ser Pro Gly Pro Gly Ala Pro
 65 70 75 80
 Ser Glu Ala Gly Cys Met Pro Glu Leu Leu Thr Arg Met Arg Gly Lys
 85 90 95
 Leu Pro Ile Ile Gly Ile Cys Leu Gly His Gln Ala Ile Val Glu Ala
 100 105 110

Tyr Gly Gly Tyr Val Gly Gln Ala Gly Glu Ile Leu His Gly Lys Ala
 115 120 125
 Ser Ser Ile Glu His Asp Gly Gln Ala Met Phe Ala Gly Leu Pro Asn
 130 135 140
 Pro Leu Pro Val Ala Arg Tyr His Ser Leu Val Gly Ser Asn Ile Pro
 145 150 155 160
 Ala Gly Leu Thr Ile Asn Ala Ser Phe Glu Gly Met Val Met Ala Val
 165 170 175
 Arg His Asp Ala Asp Arg Val Cys Gly Met Gln Phe His Pro Glu Ser
 180 185 190
 Ile Leu Thr Ser Asn Gly Gly Arg Leu Leu Glu Gln Thr Leu Asp Trp
 195 200 205
 Ala Leu Gln Lys Leu Glu Gln Thr Asn Thr Leu Gln Pro Ile Leu Glu
 210 215 220
 Lys Leu Tyr Gln Ala Gln Thr Leu Ser Gln Gln Glu Ser His Gln Leu
 225 230 235 240
 Phe Ser Ala Val Val Arg Gly Glu Leu Lys Pro Glu Gln Leu Ala Ala
 245 250 255
 Ala Leu Val Ser Met Lys Val Arg Gly Glu Ser Pro Gln Glu Ile Ala
 260 265 270
 Gly Ala Ala Thr Ala Leu Leu Glu Asn Ala Ala Pro Phe Pro Arg Pro
 275 280 285
 Asp Tyr Pro Phe Ala Asp Ile Val Gly Thr Gly Gly Asp Gly Ser Asn
 290 295 300
 Ser Ile Asn Ile Ser Thr Ala Ser Ala Phe Val Ala Ala Cys Gly
 305 310 315 320
 Leu Lys Val Ala Lys His Gly Asn Arg Ser Val Ser Ser Arg Ser Gly
 325 330 335
 Ser Ser Asp Leu Leu Ala Ala Phe Gly Ile Asn Leu Asp Met Asn Ala
 340 345 350
 Glu Arg Ser Arg Glu Ala Leu Asp Asp Leu Gly Val Cys Phe Leu Phe
 355 360 365
 Ala Pro Lys Tyr His Thr Gly Phe Arg His Ala Met Pro Val Arg Gln
 370 375 380
 Gln Leu Lys Thr Arg Thr Leu Phe Asn Val Leu Gly Pro Leu Ile Asn
 385 390 395 400
 Pro Ala His Pro Pro Leu Ala Leu Ile Gly Val Tyr Ser Pro Glu Leu
 405 410 415
 Val Leu Pro Ile Ala Glu Thr Leu Arg Val Leu Gly Tyr Gln Arg Ala
 420 425 430
 Ala Val Val His Ser Gly Gly Met Asp Glu Val Ser Leu His Ala Pro
 435 440 445
 Thr Leu Val Ala Glu Leu Asn His Gly Glu Val Leu Asn Tyr Gln Leu
 450 455 460
 Glu Ala Ala Asp Phe Gly Leu Thr Pro Tyr His Gln Asp Ala Leu Ala
 465 470 475 480
 Gly Gly Thr Pro Glu Glu Asn Arg Asp Ile Leu Thr Arg Leu Leu Gln
 485 490 495
 Gly Lys Gly Glu Ala Ala His Glu Ala Ala Val Ala Ala Asn Val Ala
 500 505 510
 Met Leu Met Arg Leu His Gly Glu Glu Asp Leu Lys Ala Asn Ala Gln
 515 520 525
 Lys Val Leu Ala Val Leu Arg Ser Gly Ala Ala Tyr Asp Arg Val Thr
 530 535 540
 Ala Leu Ala Ala Arg Gly
 545 550

<210> 9149

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 9149

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Ile Met Gln Thr Val Leu Ala Lys Ile Val Ala Asp Lys Ala Ile Trp
1      5      10      15
Val Glu Ala Arg Lys Gln Gln Gln Pro Leu Ala Ser Phe Gln Asn Asp
20      25      30
Val Val Pro Ser Ser Arg Arg Phe Tyr Asp Ala Leu Gln Gly Ala Arg
35      40      45
Thr Ala Phe Ile Leu Glu Cys Lys Lys Ala Ser Pro Ser Lys Gly Val
50      55      60
Ile Arg Asp Asp Phe Asp Pro Ala Arg Ile Ala Gly Ile Tyr Lys His
65      70      75      80
His Ala Ser Ala Ile Ser Val Leu Thr Asp Glu Lys Tyr Phe Gln Gly
85      90      95
Ser Phe Asp Phe Leu Pro Val Val Ser Gly Ile Ala Pro Gln Pro Ile
100     105     110
Leu Cys Lys Asp Phe Ile Ile Asp Pro Tyr Gln Ile Trp Leu Ala Arg
115     120     125
Phe Tyr Gln Ala Asp Ala Cys Leu Leu Met Leu Ser Val Leu Asp Asp
130     135     140
Glu Gln Tyr Arg Gln Leu Ser Ala Val Ala His Ser Leu Asn Met Gly
145     150     155     160
Val Leu Thr Glu Val Ser Asn Glu Glu Glu Leu Glu Arg Ala Ile Ala
165     170     175
Leu Glu Ala Lys Val Val Gly Ile Asn Asn Arg Asp Leu Arg Asp Leu
180     185     190
Ser Ile Asp Leu Asn Arg Thr Arg Gln Leu Ala Pro Arg Leu Gly Ala
195     200     205
Gly Val Thr Val Ile Ser Glu Ser Gly Ile Asn Ser Tyr Ala Gln Val
210     215     220
Arg Glu Leu Ser His Phe Ala Asn Gly Phe Leu Ile Gly Ser Ala Met
225     230     235     240
Met Glu His Asp Asp Leu Asn Ala Val Arg Arg Val Leu Leu Gly
245     250     255
Glu Asn Lys Val Cys Gly Leu Thr Arg Glu Gln Asp Ala Gln Ala Ala
260     265     270
Tyr Glu Ala Gly Ala Ile Tyr Gly Gly Leu Ile Phe Val Glu Ser Ser
275     280     285
Pro Arg Ala Val Asn Glu Glu Gln Ala Arg Lys Val Met Ala Ala Ala
290     295     300
Pro Leu Asn Tyr Val Gly Val Phe Arg Asp Ala Asp Ile Asn Asp Val
305     310     315     320
Ala Ala Lys Ala Asp Ala Leu Ser Leu Ser Ala Val Gln Leu His Gly
325     330     335
Asp Glu Asp Gln Ala Tyr Ile Asp Ala Leu Arg His Ala Leu Ala Pro
340     345     350
Gln Val Gln Ile Trp Lys Ala Gln Ser Val Gly Ala Thr Leu Pro Ala
355     360     365
Arg Asn Leu Lys His Val Asp Lys Tyr Val Leu Asp Asn Gly Gln Gly
370     375     380
Gly Thr Gly Gln Arg Phe Asp Trp Ser Leu Leu Arg Gly Glu Val Leu
385     390     395     400
Asp Asn Val Leu Leu Ala Gly Gly Leu Ser Pro Asp Asn Cys Val Glu
405     410     415
Ala Ala Lys Thr Gly Cys Ala Gly Leu Asp Phe Asn Ser Gly Val Glu
420     425     430
Ser Gln Pro Gly Ile Lys Asp Ala Ser Lys Leu Ala Ser Val Phe Lys
435     440     445
Thr Leu Arg Ala Tyr
450

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<210> 9150
 <211> 287
 <212> PRT
 <213> Enterobacter cloacae

<400> 9150
 Gln Arg Tyr Leu His Arg Ser Arg Tyr Ser Glu Ser Thr Arg Gly Asn
 1 5 10 15
 Leu Met Glu Arg Tyr Asp Asn Ala Phe Ala Gln Leu Lys Ala Arg Gln
 20 25 30
 Glu Gly Ala Phe Val Pro Phe Val Thr Leu Gly Asp Pro Gly Pro Glu
 35 40 45
 Gln Ser Leu Lys Ile Ile Asp Thr Leu Ile Asp Ala Gly Ala Asp Ala
 50 55 60
 Leu Glu Leu Gly Ile Pro Phe Ser Asp Pro Leu Ala Asp Gly Pro Thr
 65 70 75 80
 Ile Gln Asn Ala Thr Leu Arg Ala Phe Ala Ala Gly Val Thr Pro Gly
 85 90 95
 Gln Cys Phe Glu Met Leu Ala Ala Ile Arg Gln Lys His Pro Thr Ile
 100 105 110
 Pro Ile Gly Leu Leu Met Tyr Ala Asn Leu Val Phe Ser Arg Gly Ile
 115 120 125
 Asp Ala Phe Tyr Ala Glu Cys Ala Arg Val Gly Val Asp Ser Val Leu
 130 135 140
 Val Ala Asp Val Pro Val Glu Glu Ser Ala Pro Phe Arg Gln Ala Ala
 145 150 155 160
 Met Arg His Asn Val Ala Pro Ile Phe Ile Cys Pro Pro Asn Ala Asp
 165 170 175
 Asp Asp Leu Leu Arg Gln Ile Ala Ser Tyr Gly Arg Gly Tyr Thr Tyr
 180 185 190
 Leu Leu Ser Arg Ala Gly Val Thr Gly Ala Glu Asn Lys Ala Ala Leu
 195 200 205
 Pro Leu His His Leu Val Glu Lys Leu Ala Glu Tyr His Ala Ala Pro
 210 215 220
 Pro Leu Gln Gly Phe Gly Ile Ser Ser Pro Asp Gln Val Thr Ala Ala
 225 230 235 240
 Ile Asp Ala Lys Ala Ala Gly Ala Ile Ser Gly Ser Ala Ile Val Lys
 245 250 255
 Ile Ile Glu Lys Asn Val Asp Lys Pro Gln Gln Met Leu Ala Glu Leu
 260 265 270
 His Ala Phe Val Thr Ser Met Lys Ala Ala Thr Arg Lys Ala
 275 280 285

<210> 9151
 <211> 409
 <212> PRT
 <213> Enterobacter cloacae

<400> 9151
 Val Gln Arg Leu Phe Met Ser Trp Tyr Ser Phe Lys Gln Thr Tyr Leu
 1 5 10 15
 Val Lys Phe Trp Ser Pro Val Pro Ala Val Ile Ala Ala Gly Ile Leu
 20 25 30
 Ser Thr Tyr Tyr Phe Gly Ile Thr Gly Thr Phe Trp Ala Val Thr Gly
 35 40 45
 Glu Phe Thr Arg Trp Gly Gly Gln Leu Leu Gln Leu Ala Gly Val His
 50 55 60
 Ala Glu Glu Trp Gly Tyr Phe Lys Leu Ile His Leu Glu Gly Thr Pro
 65 70 75 80
 Leu Thr Arg Ile Asp Gly Met Met Ile Ile Gly Met Phe Gly Gly Cys
 85 90 95

Phe Ala Ala Ala Leu Trp Ala Asn Asn Val Lys Leu Arg Met Pro Lys
 100 105 110
 Ser Arg Ile Arg Ile Met Gln Ala Val Val Gly Gly Ile Ile Ala Gly
 115 120 125
 Phe Gly Ala Arg Leu Ala Met Gly Cys Asn Leu Ala Ala Phe Phe Thr
 130 135 140
 Gly Ile Pro Gln Phe Ser Leu His Ala Trp Phe Phe Ala Val Ala Thr
 145 150 155 160
 Ala Ile Gly Ser Tyr Phe Gly Ala Lys Phe Thr Leu Leu Pro Leu Phe
 165 170 175
 Arg Ile Pro Val Lys Met Thr Lys Val Ser Ala Ala Ser Pro Leu Thr
 180 185 190
 Gln Lys Pro Asp Gln Ala Arg Arg Phe Arg Leu Gly Met Leu Val
 195 200 205
 Phe Phe Ala Met Val Ala Trp Ala Ile Cys Thr Ala Met Asn Gln Pro
 210 215 220
 Lys Leu Gly Leu Ala Met Leu Phe Gly Val Gly Phe Gly Leu Leu Ile
 225 230 235 240
 Glu Arg Ala Gln Ile Cys Phe Thr Ser Ala Phe Arg Asp Met Trp Ile
 245 250 255
 Thr Gly Arg Thr Met Met Ala Lys Ala Ile Ile Ala Gly Met Ala Val
 260 265 270
 Ser Ala Ile Gly Ile Phe Ser Tyr Val Gln Leu Gly Val Glu Pro Lys
 275 280 285
 Ile Met Trp Ala Gly Pro Asn Ala Val Ile Gly Gly Leu Leu Phe Gly
 290 295 300
 Phe Gly Ile Val Leu Ala Gly Gly Cys Glu Thr Gly Trp Met Tyr Arg
 305 310 315 320
 Ala Val Glu Gly Gln Val His Tyr Trp Trp Val Gly Leu Gly Asn Val
 325 330 335
 Ile Gly Ser Thr Leu Leu Ala Cys Tyr Trp Asp Asp Val Ser Pro Val
 340 345 350
 Leu Ala Thr Asn Trp Asp Lys Val Asn Leu Leu Lys Thr Phe Gly Pro
 355 360 365
 Leu Gly Gly Leu Leu Val Thr Tyr Ala Leu Leu Leu Ile Ala Phe Leu
 370 375 380
 Leu Val Val Ala Gln Glu Lys Arg Phe Phe Arg Arg Ala Thr Ala Lys
 385 390 395 400
 Thr Glu Thr Gln Glu Asn Ala Ala
 405

<210> 9152

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 9152

Phe Asp Ala Phe Tyr Phe Cys Arg Cys Ala Met Ser Asp His Asn Pro
 1 5 10 15
 Cys Met Thr Cys Gly Ala Cys Cys Ala Tyr Phe Arg Val Ser Phe Tyr
 20 25 30
 Trp Ala Glu Ala Ser Asp Gly Gly Gly Thr Val Pro Val Asp Leu Thr
 35 40 45
 Glu Pro Leu Thr Pro Phe Leu Arg Cys Met Arg Gly Thr Asn Gln Lys
 50 55 60
 Gln Ser Arg Cys Val Ala Leu Glu Gly Glu Pro Gly Val Ser Thr Arg
 65 70 75 80
 Cys Ser Ile Tyr Ala Asp Arg Pro Ser Pro Cys Arg Thr Phe Ala Met
 85 90 95
 Ser Gly Glu Asp Gly Gln Val Asn Glu Ala Cys Asn Arg Ala Arg Ala
 100 105 110

Arg Tyr Gly Leu Pro Pro Leu Tyr Lys Asp Met Leu Phe His Thr Ser
 115 120 125
 Leu Asp Ala Ala Thr Ser Val Leu Ser Gly Val Gln Leu Pro Ala Asn
 130 135 140

145

<210> 9153

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 9153

His Ala Val Ser Pro Trp Thr Cys Ser Ile Ala Glu Leu Asn Val Ile
 1 5 10 15
 Gln Thr Leu Phe Asp Phe Pro Thr Tyr Phe Phe Ile Gly Leu
 20 25 30
 Phe Ala Leu Val Asn Pro Val Gly Ile Ile Pro Val Phe Ile Ser Met
 35 40 45
 Thr Ser Tyr Gln Thr Ala Ala Arg Asn Lys Thr Asn Leu Thr Ala
 50 55 60
 Asn Leu Ser Trp Arg Phe Ile Ile Leu Ser Ser Leu Tyr Leu Gly Asn
 65 70 75 80
 Ala Ile Leu Gln Phe Phe Gly Ile Ser Ile Asp Ser Phe Arg Tyr Ser
 85 90 95
 Arg Arg Asp Pro Gly Gly Asp Asp Cys His Val Asp Asp Gln Arg Gln
 100 105 110
 Ala Gly Gly Gly
 115

<210> 9154

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 9154

His Ser Ser Gly Thr Arg Gln Lys Val Arg Ala Met Leu Lys Phe Ile
 1 5 10 15
 Leu Arg Arg Cys Leu Glu Ala Ile Pro Thr Leu Phe Ile Leu Ile Thr
 20 25 30
 Ile Ser Phe Phe Met Met Arg Leu Ala Pro Gly Ser Pro Phe Thr Gly
 35 40 45
 Glu Arg Thr Leu Pro Pro Glu Val Met Ala Asn Ile Glu Ala Lys Tyr
 50 55 60
 His Leu Asn Asp Pro Ile Thr Thr Gln Tyr Phe Asn Tyr Leu Lys Gln
 65 70 75 80
 Leu Ala His Gly Asp Phe Gly Pro Ser Phe Lys Tyr Lys Asp Tyr Ser
 85 90 95
 Val Asn Asp Leu Val Ala Ser Ser Phe Pro Val Ser Ala Lys Leu Gly
 100 105 110
 Ala Ala Ala Phe Ile Leu Ala Val Val Leu Gly Val Thr Ala Gly Val
 115 120 125
 Ile Ala Ala Leu Lys Gln Asn Thr Arg Trp Asp Tyr Ala Val Met Gly
 130 135 140
 Val Ala Met Thr Gly Val Val Ile Pro Ser Phe Val Val Ala Pro Leu
 145 150 155 160
 Leu Val Met Ile Phe Ala Ile Thr Leu Lys Trp Leu Pro Gly Gly Gly
 165 170 175
 Trp Asn Gly Gly Ala Leu Lys Phe Met Ile Leu Pro Met Val Ala Leu
 180 185 190
 Ser Leu Ala Tyr Ile Ala Ser Ile Ala Arg Ile Thr Arg Gly Ser Met

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      195                200                205
Ile Glu Val Leu His Ser Asn Phe Ile Arg Thr Ala Arg Ala Lys Gly
210                215                220
Leu Pro Met Arg Arg Ile Phe Arg His Ala Leu Lys Pro Ala Leu
225                230                235                240
Leu Pro Val Leu Ser Tyr Met Gly Pro Ala Phe Val Gly Ile Ile Thr
      245                250                255
Gly Ser Met Val Ile Glu Thr Ile Tyr Gly Leu Pro Gly Ile Gly Gln
260                265                270
Leu Phe Val Asn Gly Ala Leu Asn Arg Asp Tyr Ser Leu Val Leu Ser
275                280                285
Leu Thr Ile Leu Val Gly Ala Leu Thr Ile Leu Phe Asn Ala Val Val
290                295                300
Asp Val Leu Tyr Ala Val Ile Asp Pro Lys Ile Arg Tyr
305                310                315

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<210> 9155

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 9155

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Leu Glu His Ala Met Met Leu Ser Lys Lys Asn Ser Glu Ala Leu Glu
1      5      10      15
Asn Phe Ser Glu Lys Leu Glu Val Glu Gly Arg Ser Leu Trp Gln Asp
20      25      30
Ala Arg Arg Arg Phe Met His Asn Arg Ala Ala Val Ala Ser Leu Val
35      40      45
Val Leu Val Leu Ile Ala Leu Phe Val Thr Leu Ala Pro Met Leu Ser
50      55      60
Leu Phe Thr Tyr Phe Asp Thr Asp Trp Gly Met Met Ser Ser Ala Pro
65      70      75      80
Asp Met Glu Ser Gly His Tyr Phe Gly Thr Asp Ser Ser Gly Arg Asp
85      90      95
Leu Leu Val Arg Val Ala Ile Gly Gly Arg Ile Ser Leu Met Val Gly
100      105      110
Ile Ala Ala Ala Leu Val Ala Val Ile Val Gly Thr Leu Tyr Gly Ser
115      120      125
Leu Ser Gly Tyr Leu Gly Gly Lys Val Asp Ser Val Met Met Arg Leu
130      135      140
Leu Glu Ile Leu Asn Ser Phe Pro Phe Met Phe Phe Val Ile Leu Leu
145      150      155      160
Val Thr Phe Phe Gly Gln Asn Ile Leu Leu Ile Phe Val Ala Ile Gly
165      170      175
Met Val Ser Trp Leu Asp Met Ala Arg Ile Val Arg Gly Gln Thr Leu
180      185      190
Ser Leu Lys Arg Lys Glu Phe Ile Glu Ala Ala Gln Val Gly Gly Val
195      200      205
Ser Thr Ala Asn Ile Val Val Arg His Ile Val Pro Asn Val Leu Gly
210      215      220
Val Val Val Val Tyr Ala Ser Leu Leu Val Pro Ser Met Ile Leu Phe
225      230      235      240
Glu Ser Phe Leu Ser Phe Leu Gly Leu Gly Thr Gln Glu Pro Leu Ser
245      250      255
Ser Trp Gly Ala Leu Leu Ser Asp Gly Ala Asn Ser Met Glu Val Ser
260      265      270
Pro Trp Leu Leu Leu Tyr Pro Ala Gly Phe Leu Val Val Thr Leu Phe
275      280      285
Cys Phe Asn Phe Ile Gly Asp Gly Leu Arg Asp Ala Leu Asp Pro Lys
290      295      300
Asp Arg

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305

<210> 9156

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 9156

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Arg Asn Ser Val Met Ile Val Val Leu Ser Glu Lys Gly Glu Asp Met
1      5      10      15
Leu Ser Ile Ala Arg Arg Thr Ala Ala Gly Ala Val Leu Leu Val
20      25      30
Ile Pro Leu Val Val Trp Phe Ser Gly Trp Met Trp Gln Pro Gly Gln
35      40      45
Asn Glu Thr Trp Leu Lys Ala Leu Tyr Trp Ile Thr Glu Thr Val Thr
50      55      60
Gln Pro Trp Gly Ile Ile Tnr His Val Leu Leu Cys Gly Trp Phe Leu
65      70      75
Trp Cys Leu Arg Phe Arg Leu Arg Ala Ala Leu Val Leu Phe Ala Ile
85      90      95
Leu Gly Gly Ala Ile Leu Ile Gly Gln Gly Val Lys Ser Trp Val Lys
100     105     110
Asp Arg Val Gln Glu Pro Arg Pro Phe Val Val Trp Leu Glu Lys Thr
115     120     125
His His Val Pro Val Asp Glu Phe Tyr Asn Leu Lys Arg Lys Asp Arg
130     135     140
Gly Ala Leu Val Lys Glu Gln Leu Ala Glu Gln Gln Asp Ile Pro Thr
145     150     155
Phe Leu Arg Lys His Trp Gln Lys Glu Thr Gly Phe Ala Phe Pro Ser
165     170     175
Gly His Thr Met Phe Ala Ala Ser Trp Ala Leu Leu Gly Val Gly Leu
180     185     190
Leu Trp Pro Arg Arg Arg Thr Leu Thr Ile Ala Ile Leu Leu Val Trp
195     200     205
Ala Thr Gly Val Met Gly Ser Arg Met Leu Leu Gly Met His Trp Pro
210     215     220
Arg Asp Leu Val Val Ala Thr Leu Ile Ser Trp Val Leu Val Thr Leu
225     230     235
Ala Thr Trp Leu Ala Gln Arg Phe Cys Gly Pro Leu Thr Pro Pro Pro
245     250     255
Glu Glu Lys Glu Glu Ile Ala Glu Arg Glu Ser Gly Gly Thr
260     265     270

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<210> 9157

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 9157

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Val Leu Phe Ile Ser Gly Thr Pro Phe Phe Ser Ser Ser Ala Ser Arg
1      5      10      15
Leu Ile Arg Ser Gly Ile Ala Gly Gly Ile Leu Val Val Thr Ile Ala
20      25      30
Met Ser Met Ile Ser Gly Lys Leu Gly Glu Asp Lys Gln Asn Lys Gln
35      40      45
Glu Lys Ser Glu Thr Ala Ile Arg Glu Ser Ile Gly Val Val Pro Leu
50      55      60
Ala Leu Pro Leu Met Ala Gly Pro Gly Ala Ile Ser Ser Thr Ile Val
65      70      75
Trp Gly Thr Arg Tyr His Ser Leu Met His Leu Ile Gly Phe Ser Val
85      90      95

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Ala Ile Ala Leu Phe Ala Leu Cys Cys Trp Gly Val Phe Arg Met Ala
 100 105 110
 Pro Trp Leu Val Arg Leu Leu Gly Gln Thr Gly Ile Asn Val Ile Thr
 115 120 125
 Arg Ile Met Gly Leu Leu Leu Met Ala Leu Gly Ile Glu Phe Ile Val
 130 135 140
 Thr Gly Ile Lys Ser Ile Phe Pro Gly Leu Val His
 145 150 155

<210> 9158

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 9158

Ala Ala Gly Gly Ala Gly Met Asn Ala Ile Asp Glu Lys Arg Asn Val
 1 5 10 15
 Leu Leu Glu Ile Ala Asp Leu Lys Val His Phe Asp Ile Lys Asp Gly
 20 25 30
 Lys Gln Trp Phe Trp Gln Pro Ala Lys Thr Leu Lys Ala Val Asp Gly
 35 40 45
 Val Thr Leu Arg Leu Tyr Glu Gly Glu Thr Leu Gly Val Val Gly Glu
 50 55 60
 Ser Gly Cys Gly Lys Ser Thr Phe Ala Arg Ala Ile Ile Gly Leu Val
 65 70 75 80
 Lys Ala Thr Asp Gly Lys Val Ala Trp Leu Gly Lys Asp Leu Leu Gly
 85 90 95
 Met Lys Pro Asp Glu Trp Arg Asp Val Arg Ser Asp Ile Gln Met Ile
 100 105 110
 Phe Gln Asp Pro Leu Ala Ser Leu Asn Pro Arg Met Thr Ile Gly Glu
 115 120 125
 Ile Ile Ala Glu Pro Leu Arg Thr Tyr His Pro Lys Met Pro Arg Gln
 130 135 140
 Glu Val Arg Asp Arg Val Lys Ala Met Met Leu Lys Val Gly Leu Leu
 145 150 155 160
 Pro Asn Leu Ile Asn Arg Tyr Pro His Glu Phe Ser Gly Gly Gln Cys
 165 170 175
 Gln Arg Ile Gly Ile Ala Arg Ala Leu Ile Leu Glu Pro Lys Leu Ile
 180 185 190
 Ile Cys Asp Glu Pro Val Ser Ala Leu Asp Val Ser Ile Gln Ala Gln
 195 200 205
 Val Val Asn Leu Leu Gln Lys Leu Gln Arg Glu Met Gly Leu Ser Leu
 210 215 220
 Ile Phe Ile Ala His Asp Leu Ala Val Val Lys His Ile Ser Asp Arg
 225 230 235 240
 Val Leu Val Met Tyr Leu Gly His Ala Val Glu Leu Gly Thr Tyr Asp
 245 250 255
 Glu Val Tyr His Asn Pro Leu His Pro Tyr Thr Lys Ala Leu Met Ser
 260 265 270
 Ala Val Pro Val Pro Asp Pro Asp Leu Glu Lys Asn Lys Thr Ile Gln
 275 280 285
 Leu Leu Glu Gly Glu Leu Pro Ser Pro Ile Asn Pro Pro Ser Gly Cys
 290 295 300
 Val Phe Arg Thr Arg Cys Pro Ile Ala Gly Pro Glu Cys Ala Lys Thr
 305 310 315 320
 Arg Pro Val Leu Glu Gly Ser Phe Arg His Ala Val Ser Cys Leu Lys
 325 330 335
 Val Asp Pro Leu
 340

<210> 9159

<211> 288
 <212> PRT
 <213> Enterobacter cloacae

<400> 9159
 Cys Gln Pro Leu Phe Phe Glu Val Asn Val Ser Arg Leu Phe Thr Ser
 1 5 10 15
 Ala Arg Gln Arg Leu Tyr His Leu Leu Phe Asp Pro Glu Thr Val Ser
 20 25 30
 Gly Arg Arg Phe Glu Gly Leu Cys Gly Leu Phe Ala Leu Ile Ser Val
 35 40 45
 Ile Ile Ile Phe Ile Glu Ser Gly Ala Gly Thr Gln Tyr His Met Thr
 50 55 60
 Tyr Glu Glu Trp His Val Phe Val Trp Leu Glu Leu Ile Val Thr Leu
 65 70 75 80
 Val Phe Thr Ala Glu Tyr Val Leu Arg Val Ile Ser Trp Pro Asn Pro
 85 90 95
 Ala Lys Tyr Val Phe Ser Phe Trp Gly Phe Ile Asp Leu Ala Thr Ile
 100 105 110
 Leu Pro Leu Tyr Val Met Trp Leu Trp Pro Glu Ile Ser Leu Asn Tyr
 115 120 125
 Val Phe Ala Trp Arg Ala Met Arg Ala Ile Arg Val Leu Arg Ile Leu
 130 135 140
 Lys Leu Leu Arg Phe Met Pro Ser Leu Arg Val Phe Trp Val Ala Ile
 145 150 155 160
 Val Ser Ala Arg His Gln Leu Ile Leu Phe Tyr Ser Phe Ile Ala Ile
 165 170 175
 Val Met Ile Val Phe Gly Ser Leu Met Tyr Leu Ile Glu Gly Pro Lys
 180 185 190
 Tyr Gly Phe Thr Thr Leu Asn Ala Ser Val Tyr Trp Ala Ile Val Thr
 195 200 205
 Val Thr Thr Val Gly Tyr Gly Asp Ile Thr Pro His Thr Pro Leu Gly
 210 215 220
 Arg Ile Val Ala Ser Val Leu Ile Leu Ile Gly Tyr Ser Val Ile Ala
 225 230 235 240
 Ile Pro Thr Gly Leu Ile Thr Thr His Met Ser Ser Ala Phe Gln Asn
 245 250 255
 Ser Lys Gln Gln Arg Lys Cys Pro Lys Cys Gln Gln Gly Asn His Glu
 260 265 270
 Pro Gly Ala Arg Phe Cys His Arg Cys Gly Asn Ala Leu Pro Asp
 275 280 285

<210> 9160
 <211> 216
 <212> PRT
 <213> Enterobacter cloacae

<400> 9160
 Arg Cys Pro Leu Asn Ile Gln Ala Ile Asn Phe Cys Ser Leu Phe Pro
 1 5 10 15
 Ser Ala Phe Arg Asp Ile Leu Ser Pro Leu Asn Val Met Ile Leu Lys
 20 25 30
 Asp Glu Ser Leu Ser Leu Asp Phe Tyr Cys Thr Phe Gly Ala Gly Cys
 35 40 45
 Ala Gln Gly Arg Phe Arg Thr Phe Val Ile Phe Leu Ile Gly Arg Leu
 50 55 60
 Cys Phe Arg Met Gly Asn Thr Leu Ala Leu Leu Lys Glu Gln Arg Met
 65 70 75 80
 Asn Gly Lys Val Met Ala Ala Leu Phe Gly Ile Ala Ile Leu Ser Gly
 85 90 95
 Cys Ala Ser Ser Lys Thr Ser Pro Glu Arg His Ala Phe Tyr Phe Val

100 105 110
 Ser His Gln Ser Ser Phe Thr Gly Gly Asn Tyr Thr Ser Ser Val Gln
 115 120 125
 Lys Asn Tyr Gln Leu Asn Val Ala Gln Phe Arg Glu Leu Tyr Ala Arg
 130 135 140
 Gly Lys Ala Asp Arg Ala Glu Gly Arg Thr Gln Ala Glu Ala Ser Glu
 145 150 155 160
 Tyr Ala Gln Ser Ile Arg Asp Gln Leu Lys Glu Asn Ala Thr Ser Gln
 165 170 175
 Glu Leu Phe Ala Gly Asn Thr Lys Asp Lys Trp Ser Ser Asp Met Asp
 180 185 190
 Ser Lys Asp Ala Ile Leu Phe Gly Asn Glu Leu Ala Ala Thr Tyr Leu
 195 200 205
 Asp Gly Tyr Asn Gly Val Gln
 210 215

<210> 9161

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 9161

Leu Gln Cys Lys Asp Asn Asn Asn Val Lys Thr Leu Ile Trp Met Pro
 1 5 10 15
 Leu Phe Cys Pro His Val Arg Leu Asn Cys Ala Arg Thr Lys Cys Leu
 20 25 30
 Ile Glu Tyr Asp Cys Tyr Leu His Leu Lys Ser Arg Phe Gly Phe Leu
 35 40 45
 Thr Leu Met Ile Met Thr Ser Met Thr Leu Asp Leu Pro Arg Arg Phe
 50 55 60
 Pro Trp Pro Thr Leu Leu Ser Val Val Ile His Gly Ala Val Val Ala
 65 70 75 80
 Gly Leu Leu Tyr Thr Ser Val His Gln Val Ile Glu Met Pro Ala Pro
 85 90 95
 Ala Gln Pro Ile Ser Val Thr Met Val Ser Pro Ala Asp Leu Glu Pro
 100 105 110
 Pro Gln Val Ala Pro Pro Pro Pro Gln Pro Val Val Glu Pro Glu Pro
 115 120 125
 Glu Pro Glu Pro Glu Pro Val Pro Glu Pro Pro Lys Glu Ala Pro Val
 130 135 140
 Val Ile His Lys Lys Pro Glu Pro Lys Pro Lys Pro Lys Pro Lys
 145 150 155 160
 Pro Val Lys Lys Val Glu Val Arg Pro Val Glu Pro Arg Ala Thr Gln
 165 170 175
 Pro Val Glu Asn Ala Ala Pro Ser Arg Pro Leu Met Asn Asn Thr Thr
 180 185 190
 Thr Ala Thr Lys Pro Thr Val Thr Ala Pro Ala Gly Pro Arg Ala Leu
 195 200 205
 Ser Arg Asn Gln Pro Gln Tyr Pro Ala Arg Ala Gln Ala Leu Arg Ile
 210 215 220
 Glu Gly Arg Val Arg Val Lys Phe Asp Val Thr Ala Asp Gly Arg Val
 225 230 235 240
 Asp Asn Val Glu Ile Leu Ser Ala Gln Pro Ala Asn Met Phe Glu Arg
 245 250 255
 Glu Val Lys Ser Ala Met Arg Arg Trp Arg Tyr Glu Ala Gly Lys Pro
 260 265 270
 Gly Asn Gly Leu Ile Val Asn Ile Val Phe Arg Leu Asn Gly Gly Ala
 275 280 285
 Gln Met Glu
 290

<210> 9162
 <211> 218
 <212> PRT
 <213> Enterobacter cloacae

<400> 9162
 Asn His Asn Asp Gly Ala Asp Met Lys Lys Leu Ala Val Ala Ala Leu
 1 5 10 15
 Ile Leu Ser Ser Leu Ser Gly Gly Ala Tyr Ala His Glu Ala Gly Glu
 20 25 30
 Phe Phe Ile Arg Ala Gly Ser Ala Thr Val Arg Pro Thr Glu Gly Ser
 35 40 45
 Asp Asn Val Leu Gly Met Gly Gly Phe Asn Val Ser Asn Asn Thr Gln
 50 55 60
 Leu Gly Leu Thr Phe Thr Tyr Met Ala Thr Asp Asn Val Gly Val Glu
 65 70 75 80
 Leu Leu Ala Ala Thr Pro Phe Arg His Arg Val Gly Leu Gly Pro Thr
 85 90 95
 Gly Asp Ile Ala Thr Val His His Leu Pro Pro Thr Leu Met Ala Gln
 100 105 110
 Trp Tyr Phe Gly Asp Ser Ser Ser Lys Val Arg Pro Tyr Ile Gly Ala
 115 120 125
 Gly Val Asn Tyr Thr Thr Phe Phe Asp Glu Lys Phe Asn Asp Thr Gly
 130 135 140
 Lys Glu Ala Gly Leu Ser Asp Leu Ser Leu Lys Asp Ser Trp Gly Met
 145 150 155 160
 Ala Gly Gln Val Gly Leu Asp Tyr Leu Ile Asn Arg Asp Trp Leu Ile
 165 170 175
 Asn Ala Ser Val Trp Tyr Met Asp Ile Asp Thr Asp Val Arg Phe Lys
 180 185 190
 Ala Gly Gly Gln Gln Gln Ser Ile Asn Thr Arg Leu Asp Pro Trp Val
 195 200 205
 Phe Met Phe Ser Ala Gly Tyr Arg Phe
 210 215

<210> 9163
 <211> 211
 <212> PRT
 <213> Enterobacter cloacae

<400> 9163
 Arg Glu Gly Ser Met Ser Gln Phe Phe Tyr Ile His Pro Asp Asn Pro
 1 5 10 15
 Gln Pro Arg Leu Ile Asn Gln Ala Val Glu Ile Val Arg Lys Gly Gly
 20 25 30
 Val Ile Val Tyr Pro Thr Asp Ser Gly Tyr Ala Leu Gly Cys Lys Ile
 35 40 45
 Glu Asp Lys Gly Ala Met Glu Arg Ile Cys Arg Ile Arg Gln Leu Pro
 50 55 60
 Asp Gly His Asn Phe Thr Leu Met Cys Arg Asp Leu Ser Glu Leu Ser
 65 70 75 80
 Thr Tyr Ala Tyr Val Asp Asn Val Ala Phe Arg Leu Ile Lys Asn Asn
 85 90 95
 Thr Pro Gly Asn Tyr Thr Phe Ile Leu Lys Gly Thr Lys Glu Val Pro
 100 105 110
 Arg Arg Leu Leu Gln Glu Lys Arg Lys Thr Ile Gly Met Arg Val Pro
 115 120 125
 Ser Asn Pro Ile Ala Gln Ala Leu Leu Glu Thr Leu Gly Glu Pro Met
 130 135 140
 Leu Ser Thr Ser Leu Met Leu Pro Gly Ser Glu Phe Thr Glu Ser Asp
 145 150 155 160

Pro Glu Glu Ile Lys Asp Arg Leu Glu Lys Val Val Glu Leu Ile Ile
 165 170 175
 His Gly Gly Tyr Leu Gly Gln Gln Pro Thr Thr Val Val Asp Leu Thr
 180 185 190
 Glu Asp Ala Pro Glu Val Ile Arg Glu Gly Val Gly Asp Val Lys Pro
 195 200 205
 Phe Leu
 210

<210> 9164

<211> 354

<212> PRT

<213> *Enterobacter cloacae*

<400> 9164

Ile Lys Val Glu Arg Val Glu Leu Leu Ser Gln Tyr Gly Leu Phe Leu
 1 5 10 15
 Ala Lys Ile Ala Thr Val Val Ile Ala Val Ala Val Ile Ala Val Leu
 20 25 30
 Ile Val Asn Leu Thr Gln Arg Lys Arg Gln Arg Gly Glu Leu Arg Ile
 35 40 45
 Thr Arg Leu Ser Glu Gln Tyr Lys Glu Met Gln Glu Met Ser Leu
 50 55 60
 Ala Leu Leu Asp Asp His Gln Gln Lys Leu Trp Leu Lys Ala Gln Lys
 65 70 75 80
 Lys Lys His Lys Gln Asp Ala Lys Ala Ala Lys Ala Lys Ala Lys Leu
 85 90 95
 Ala Thr Pro Gln Ala Asp Ala Lys Pro Arg Val Tyr Val Leu Asp Phe
 100 105 110
 Lys Gly Ser Met Asp Ala His Glu Val Ser Ser Leu Arg Glu Glu Val
 115 120 125
 Thr Ala Val Leu Ala Val Ala Thr Ala Gln Asp Gln Val Val Val Arg
 130 135 140
 Leu Glu Ser Pro Gly Gly Val Val His Gly Tyr Gly Leu Ala Ala Ser
 145 150 155 160
 Gln Leu Gln Arg Leu Arg Asp Lys Gln Ile Pro Leu Thr Val Ala Val
 165 170 175
 Asp Lys Val Ala Ala Ser Gly Gly Tyr Met Met Ala Cys Val Ala Asp
 180 185 190
 Lys Ile Val Ala Ala Pro Phe Ser Ile Ile Gly Ser Ile Gly Val Val
 195 200 205
 Ala Gln Ile Pro Asn Phe Asn Arg Phe Leu Lys Asn Lys Glu Ile Asp
 210 215 220
 Ile Glu Leu His Thr Ala Gly Gln Tyr Lys Arg Thr Leu Thr Leu Leu
 225 230 235 240
 Gly Glu Asn Thr Glu Glu Gly Arg Gln Lys Phe Arg Glu Asp Leu Asn
 245 250 255
 Glu Thr His His Leu Phe Lys Asp Phe Val His Arg Met Arg Pro Thr
 260 265 270
 Leu Asp Ile Glu Gln Val Ala Thr Gly Glu His Trp Tyr Gly Thr Gln
 275 280 285
 Ala Gln Glu Lys Gly Leu Val Asp Glu Val Gly Thr Ser Asp Asp Leu
 290 295 300
 Leu Leu Asn Leu Met Asp Gly Arg Glu Leu Val Gly Val Arg Phe Thr
 305 310 315 320
 Arg Arg Lys Arg Leu Leu Asp Arg Phe Thr Asn Ser Ala Ala Glu Ser
 325 330 335
 Ala Asp Arg Leu Leu Leu Arg Trp Leu Gln Arg Gly Gln Lys Pro Leu
 340 345 350
 Leu

<210> 9165
 <211> 947
 <212> PRT
 <213> Enterobacter cloacae

<400> 9165
 Ile Val Lys Pro Arg His Gly Gly Val Phe Cys Phe Ile Pro Arg Val
 1 5 10 15
 Gly Pro Phe Leu Asn Leu Ser Ile Trp Val Val Ile Lys Thr Leu Arg
 20 25 30
 His Leu Cys Val Ile Phe Asn Tyr Ser Pro Asp Asp Cys Gln Asp Ile
 35 40 45
 Pro Val Phe Lys Glu Glu Leu Met Ser Leu Thr Leu Arg Glu Ala Ser
 50 55 60
 Lys Asp Thr Leu Gln Ala Glu Asn Lys Thr Trp Arg Tyr Tyr Ser Leu
 65 70 75 80
 Pro Leu Ala Ala Arg Thr Leu Gly Asp Ile Ser Arg Leu Pro Lys Ser
 85 90 95
 Leu Lys Val Leu Leu Glu Asn Leu Leu Arg Trp Gln Asp Gly Asp Ser
 100 105 110
 Val Thr Glu Glu Asp Ile Gln Ala Leu Ala Gly Trp Leu Lys Asn Ala
 115 120 125
 His Ala Asp Arg Glu Ile Ala Tyr Arg Pro Ala Arg Val Leu Met Gln
 130 135 140
 Asp Phe Thr Gly Val Pro Ala Val Val Asp Leu Ala Ala Met Arg Glu
 145 150 155 160
 Ala Val Lys Arg Leu Gly Gly Asp Thr Ala Lys Val Asn Pro Leu Ser
 165 170 175
 Pro Val Asp Leu Val Ile Asp His Ser Val Thr Val Asp His Phe Gly
 180 185 190
 Asp Asp Asp Ala Phe Gly Glu Asn Val Arg Leu Glu Met Glu Arg Asn
 195 200 205
 His Glu Arg Tyr Val Phe Leu Lys Trp Gly Gln Gln Ala Phe Ser Arg
 210 215 220
 Phe Ser Val Val Pro Pro Gly Thr Gly Ile Cys His Gln Val Asn Leu
 225 230 235 240
 Glu Tyr Leu Gly Lys Ala Val Trp Ser Glu Leu Gln Asp Lys Glu Trp
 245 250 255
 Val Ala Tyr Pro Asp Thr Leu Val Gly Thr Asp Ser His Thr Thr Met
 260 265 270
 Ile Asn Gly Leu Gly Val Leu Gly Trp Gly Val Gly Gly Ile Glu Ala
 275 280 285
 Glu Ala Ala Met Leu Gly Gln Pro Val Ser Met Leu Ile Pro Asp Val
 290 295 300
 Val Gly Phe Lys Leu Thr Gly Lys Leu Ser Glu Gly Ile Thr Ala Thr
 305 310 315 320
 Asp Leu Val Leu Thr Val Thr Gln Met Leu Arg Lys His Gly Val Val
 325 330 335
 Gly Lys Phe Val Glu Phe Tyr Gly Asp Gly Leu Asp Ser Leu Pro Leu
 340 345 350
 Ala Asp Arg Ala Thr Ile Ala Asn Met Ala Pro Glu Tyr Gly Ala Thr
 355 360 365
 Cys Gly Phe Phe Pro Ile Asp Ser Val Thr Leu Glu Tyr Met Arg Leu
 370 375 380
 Ser Gly Arg Ser Glu Glu Gln Val Ala Leu Val Glu Ala Tyr Thr Lys
 385 390 395 400
 Ala Gln Gly Met Trp Arg Asn Pro Gly Asp Glu Pro Val Phe Thr Ser
 405 410 415
 Thr Leu Glu Leu Asp Met Gly Thr Val Glu Ala Ser Leu Ala Gly Pro
 420 425 430

Lys Arg Pro Gln Asp Arg Val Ala Leu Ser Asn Val Pro Lys Ala Phe
 435 440 445
 Ala Ala Ser Asn Glu Leu Glu Val Asn Ala Ala Gln Lys Asp His Arg
 450 455 460
 Pro Val Asp Tyr Val Leu Asn Gly His Gln Tyr Gln Leu Pro Asp Gly
 465 470 475 480
 Ala Val Val Ile Ala Ala Ile Thr Ser Cys Thr Asn Thr Ser Asn Pro
 485 490 495
 Ser Val Leu Met Ala Ala Gly Leu Leu Ala Lys Lys Ala Val Glu Leu
 500 505 510
 Gly Leu Lys Pro Gln Pro Trp Val Lys Ala Ser Leu Ala Pro Gly Ser
 515 520 525
 Lys Val Val Ser Asp Tyr Leu Ala Gln Ala Arg Leu Thr Pro Tyr Leu
 530 535 540
 Asp Glu Leu Gly Phe Asn Leu Val Gly Tyr Gly Cys Thr Thr Cys Ile
 545 550 555 560
 Gly Asn Ser Gly Pro Leu Pro Glu Pro Ile Glu Val Ala Ile Arg Gln
 565 570 575
 Gly Asp Leu Thr Val Gly Ala Val Leu Ser Gly Asn Arg Asn Phe Glu
 580 585 590
 Gly Arg Ile His Pro Leu Val Lys Thr Asn Trp Leu Ala Ser Pro Pro
 595 600 605
 Leu Val Val Ala Tyr Ala Leu Ala Gly Asn Met Asn Ile Asn Leu Ala
 610 615 620
 Thr Asp Pro Ile Gly His Asp Arg Lys Asn Glu Pro Val Tyr Leu Lys
 625 630 635 640
 Asp Ile Trp Pro Ser Ser Arg Glu Ile Ala Arg Ala Val Glu Lys Val
 645 650 655
 Ser Thr Glu Met Phe Arg Lys Glu Tyr Ala Glu Val Phe Glu Gly Thr
 660 665 670
 Ala Glu Trp Lys Ala Ile Asp Val Val Gly Ser Asp Thr Tyr Asp Trp
 675 680 685
 Gln Asp Asp Ser Thr Tyr Ile Arg Leu Ser Pro Phe Asp Glu Met
 690 695 700
 Leu Ala Glu Pro Ala Pro Leu Lys Asp Ile His Gly Ala Arg Ile Leu
 705 710 715 720
 Ala Met Leu Gly Asp Ser Val Thr Thr Asp His Ile Ser Pro Ala Gly
 725 730 735
 Ser Ile Lys Ala Asp Ser Pro Ala Gly Arg Tyr Leu Gln Ser Arg Gly
 740 745 750
 Val Glu Arg Arg Asp Phe Asn Ser Tyr Gly Ser Arg Arg Gly Asn His
 755 760 765
 Glu Val Met Met Arg Gly Thr Phe Ala Asn Ile Arg Ile Arg Asn Glu
 770 775 780
 Met Val Pro Gly Val Glu Gly Gly Met Thr Arg His Leu Pro Asp Thr
 785 790 795 800
 Glu Val Ile Ser Ile Tyr Asp Ala Ala Met Lys Tyr Gln Gln Glu Gly
 805 810 815
 Thr Pro Leu Ala Val Ile Ala Gly Lys Glu Tyr Gly Ser Gly Ser Ser
 820 825 830
 Arg Asp Trp Ala Ala Lys Gly Pro Arg Leu Leu Gly Val Arg Val Val
 835 840 845
 Ile Ala Glu Ser Phe Glu Arg Ile His Arg Ser Asn Leu Ile Gly Met
 850 855 860
 Gly Ile Leu Pro Leu Glu Phe Pro Gln Gly Val Thr Arg Lys Thr Leu
 865 870 875 880
 Gly Leu Thr Gly Glu Glu Gln Ile Asp Ile Ser Gly Leu Gln Asn Leu
 885 890 895
 Gln Pro Gly Lys Thr Val Pro Val Lys Leu Thr Arg Ala Asp Gly Thr
 900 905 910
 Thr Glu Val Leu Asp Cys Arg Cys Arg Ile Asp Thr Ala Thr Glu Leu

915 920 925
 Thr Tyr Phe Ile Asn Asp Gly Ile Leu His Tyr Val Ile Arg Lys Met
 930 935 940
 Leu Asp
 945

<210> 9166
 <211> 116
 <212> PRT
 <213> Enterobacter cloacae

<400> 9166
 Thr Arg Phe Ile Arg Ser Asn His Ile Thr Gly Ser His Val Lys Tyr
 1 5 10 15
 Leu Leu Ile Phe Leu Leu Val Leu Ala Ile Phe Val Ile Ser Val Thr
 20 25 30
 Leu Gly Ala Gln Asn Asp Gln Gln Val Ser Phe Asn Tyr Leu Leu Ala
 35 40 45
 Gln Gly Glu Tyr Arg Val Ser Ser Leu Leu Ala Val Leu Phe Ala Ala
 50 55 60
 Gly Phe Val Ile Gly Trp Leu Val Cys Gly Met Phe Trp Leu Lys Val
 65 70 75 80
 Arg Val Ser Leu Val Arg Ala Glu Arg Lys Ile Lys Arg Leu Glu His
 85 90 95
 Gln Leu Thr Pro Ala Ser Asp Ile Pro Ala Ser Ser Gly Val Pro Val
 100 105 110
 Val Lys Glu
 115

<210> 9167
 <211> 363
 <212> PRT
 <213> Enterobacter cloacae

<400> 9167
 Ser Asn Met Leu Glu Leu Leu Phe Leu Leu Leu Pro Val Ala Ala Ala
 1 5 10 15
 Tyr Gly Trp Tyr Met Gly Arg Arg Ser Ala Gln Gln Thr Lys Gln Asp
 20 25 30
 Glu Ala Asn Arg Leu Ser Arg Asp Tyr Val Ala Gly Val Asn Phe Leu
 35 40 45
 Leu Ser Asn Gln Gln Asp Lys Ala Val Asp Leu Phe Leu Asp Met Leu
 50 55 60
 Lys Glu Asp Thr Gly Thr Val Glu Ala His Leu Thr Leu Gly Asn Leu
 65 70 75 80
 Phe Arg Ser Arg Gly Glu Val Asp Arg Ala Ile Arg Ile His Gln Thr
 85 90 95
 Leu Met Glu Ser Ala Ser Leu Thr Tyr Glu Gln Arg Leu Leu Ala Val
 100 105 110
 Gln Gln Leu Gly Arg Asp Tyr Met Ala Ala Gly Leu Tyr Asp Arg Ala
 115 120 125
 Glu Asp Met Phe Ser Gln Leu Val Asp Glu Thr Asp Phe Arg Ile Gly
 130 135 140
 Ala Leu Gln Gln Leu Leu Gln Ile Tyr Gln Ala Thr Ser Asp Trp Gln
 145 150 155 160
 Lys Ala Ile Asp Thr Ala Glu Arg Leu Val Lys Leu Gly Lys Asp Lys
 165 170 175
 Gln Arg Val Glu Ile Ala His Phe Tyr Cys Glu Leu Ala Leu Gln Gln
 180 185 190
 Met Gly Ser Asp Asp Met Asp Lys Ala Met Ala Leu Leu Lys Lys Gly
 195 200 205

Ala Ala Ala Asp Arg Asn Ser Ala Arg Ile Ser Ile Met Met Gly Arg
 210 215 220
 Val Phe Met Ala Asn Gly Asp Tyr Ala Lys Ala Val Glu Ser Leu Leu
 225 230 235 240
 Arg Val Ile Asp Gln Asp Lys Glu Leu Val Ser Glu Thr Leu Glu Met
 245 250 255
 Leu Gln Thr Cys Tyr Gln Gln Leu Gly Lys Gln Asp Glu Trp Val Ala
 260 265 270
 Phe Leu Arg Arg Cys Val Glu Glu Asn Thr Gly Ala Thr Ala Glu Leu
 275 280 285
 Met Leu Ser Asp Val Val Glu Glu His Glu Gly Ser Asp Thr Ala Gln
 290 295 300
 Val Tyr Ile Thr Arg Gln Leu Gln Leu His Pro Thr Met Arg Val Phe
 305 310 315 320
 His Lys Leu Met Asp Tyr His Leu Asn Asp Ala Glu Glu Gly Arg Ala
 325 330 335
 Lys Glu Ser Leu Met Val Leu Arg Asp Met Val Phe Asn Arg Gly Asp
 340 345 350
 Trp Pro Asp Gln Arg Leu Ile Leu Ala Lys Ser
 355 360

<210> 9168

<211> 583

<212> PRT

<213> Enterobacter cloacae

<400> 9168

Gln Glu Val Lys Lys Asn Leu Thr Val Ala Lys Lys Thr Pro Ala Leu
 1 5 10 15
 Tyr Arg Pro Gln Gln Gly Ile Thr Gln Leu Ala Lys Ala Ser His Tyr
 20 25 30
 Asn Glu Trp Ser Ile Asn Thr Met Ser Ile Ile Thr Lys Lys Ser Leu
 35 40 45
 Val Ala Ala Gly Ile Leu Thr Ala Leu Ile Ala Gly Asn Ala Ala Met
 50 55 60
 Ala Ala Asp Val Pro Ala Gly Val Gln Leu Ala Glu Lys Gln Thr Leu
 65 70 75 80
 Val Arg Asn Asn Gly Ala Glu Val Gln Ser Leu Asp Pro His Lys Ile
 85 90 95
 Glu Gly Val Pro Glu Ser Asn Val Asn Arg Asp Leu Phe Glu Gly Leu
 100 105 110
 Leu Val Thr Asp Val Asn Gly His Pro Ala Pro Gly Val Ala Glu Lys
 115 120 125
 Trp Asp Asn Lys Asp Phe Lys Val Trp Thr Phe His Leu Arg Lys Asp
 130 135 140
 Ala Lys Trp Ser Asp Gly Thr Pro Val Thr Ala Glu Asp Phe Val Tyr
 145 150 155 160
 Ser Trp Gln Arg Leu Ala Asp Pro Asn Thr Ala Ser Pro Tyr Ala Ser
 165 170 175
 Tyr Leu Gln Tyr Gly His Ile Ala Asn Ile Asp Asp Ile Ile Thr Gly
 180 185 190
 Lys Lys Pro Val Thr Asp Leu Gly Val Lys Ala Ile Asp Ala Asn Thr
 195 200 205
 Phe Glu Val Thr Leu Ser Glu Pro Val Pro Tyr Phe Tyr Lys Leu Leu
 210 215 220
 Val His Pro Ser Val Ser Pro Val Pro Lys Ser Ala Val Glu Lys Phe
 225 230 235 240
 Gly Glu Lys Trp Thr Gln Pro Ala Asn Ile Val Thr Asn Gly Ala Tyr
 245 250 255
 Lys Leu Lys Asp Trp Val Val Asn Glu Arg Met Val Leu Glu Arg Asn
 260 265 270

Pro Gln Tyr Trp Asp Asn Ala Lys Thr Val Ile Asn Gln Val Thr Tyr
 275 280
 Leu Pro Ile Ser Ser Glu Val Thr Asp Val Asn Arg Tyr Arg Ser Gly
 290 295 300
 Glu Ile Asp Met Thr Tyr Asn Asn Met Pro Ile Glu Leu Phe Pro Lys
 305 310 315 320
 Leu Lys Lys Glu Ile Pro Lys Glu Val His Val Asp Pro Tyr Leu Cys
 325 330 335
 Thr Tyr Tyr Tyr Glu Ile Asn Asn Gln Lys Ala Pro Phe Thr Asp Val
 340 345 350
 Arg Val Arg Thr Ala Leu Lys Leu Ala Leu Asp Arg Asp Ile Ile Val
 355 360 365
 Asn Lys Val Lys Asn Gln Gly Asp Leu Pro Ala Tyr Ser Tyr Thr Pro
 370 375 380
 Pro Tyr Thr Asp Gly Met Lys Leu Val Glu Pro Glu Trp Phe Lys Trp
 385 390 395 400
 Ser Gln Glu Lys Arg Asn Glu Glu Ala Lys Lys Leu Leu Ala Glu Ala
 405 410 415
 Gly Tyr Thr Ala Asp Lys Pro Leu Thr Phe Ser Leu Leu Tyr Asn Thr
 420 425 430
 Ser Asp Leu His Lys Lys Leu Ala Ile Ala Val Ala Ser Ile Trp Lys
 435 440 445
 Lys Asn Leu Gly Val Asn Val Lys Leu Glu Asn Gln Glu Trp Lys Thr
 450 455 460
 Phe Leu Asp Thr Arg His Gln Gly Thr Phe Asp Val Ala Arg Ala Gly
 465 470 475 480
 Trp Cys Ala Asp Tyr Asn Glu Pro Thr Ser Phe Leu Asn Thr Met Leu
 485 490 495
 Ser Asp Ser Ser Asn Asn Thr Ala His Tyr Lys Ser Pro Ala Phe Asp
 500 505 510
 Lys Leu Ile Gly Glu Thr Leu Lys Val Ala Asp Asp Ala Gln Arg Ala
 515 520 525
 Asp Leu Tyr Ala Lys Ser Glu Gln Gln Leu Asp Lys Asp Ser Ala Ile
 530 535 540
 Val Pro Val Tyr Tyr Val Asn Ala Arg Leu Val Lys Pro Trp Val
 545 550 555 560
 Gly Gly Tyr Thr Gly Lys Asp Pro Leu Asp Asn Ile Ser Val Lys Asn
 565 570 575
 Leu Tyr Ile Ile Lys His
 580

<210> 9169

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 9169

Cys Pro Arg Pro Glu Arg Pro Leu Arg Ser Ala Val Met Thr Ile Ile
 1 5 10 15
 Glu Thr Ala Thr Ala Pro Gln Ala Gln Gln Arg Thr Ser Ala Leu Leu
 20 25 30
 Asp Val Lys Asp Leu Arg Val Thr Phe Lys Thr Pro Asp Gly Asp Val
 35 40 45
 Thr Ala Val Asn Asp Leu Asn Phe Asp Leu Arg Ala Gly Glu Thr Leu
 50 55 60
 Gly Ile Val Gly Glu Ser Gly Ser Gly Lys Ser Gln Thr Ala Phe Ala
 65 70 75 80
 Leu Met Gly Leu Leu Ala Ser Asn Gly Val Ile Gly Gly Ser Ala Thr
 85 90 95
 Phe Asn Gly Lys Glu Ile Leu Asn Leu Pro Glu His Glu Leu Asn Lys
 100 105 110

Leu Arg Ala Glu Gln Ile Ser Met Ile Phe Gln Asp Pro Met Thr Ser
 115 120 125
 Leu Asn Pro Tyr Leu Arg Val Gly Glu Gln Leu Met Glu Val Leu Met
 130 135 140
 Leu His Lys Gly Leu Gly Lys Ala Glu Ala Phe Glu Glu Ser Val Lys
 145 150 155 160
 Met Leu Asp Ala Val Lys Met Pro Glu Ala Arg Lys Arg Met Arg Met
 165 170 175
 Tyr Pro His Glu Phe Ser Gly Gly Met Arg Gln Arg Val Met Ile Ala
 180 185 190
 Met Ala Leu Leu Cys Arg Pro Lys Leu Leu Ile Ala Asp Glu Pro Thr
 195 200 205
 Thr Ala Leu Asp Val Thr Val Gln Ala Gln Ile Met Thr Leu Leu Asn
 210 215 220
 Glu Leu Lys Arg Glu Phe Asn Thr Ala Ile Ile Met Ile Thr His Asp
 225 230 235 240
 Leu Gly Val Val Ala Gly Ile Cys Asp Lys Val Leu Val Met Tyr Ala
 245 250 255
 Gly Arg Thr Met Glu Tyr Gly Asn Ala Arg Asp Val Phe Tyr Gln Pro
 260 265 270
 Ala His Pro Tyr Ser Ile Gly Leu Leu Asn Ala Val Pro Arg Leu Asp
 275 280 285
 Ala Glu Gly Glu Ser Leu Leu Thr Ile Pro Gly Asn Pro Pro Asn Leu
 290 295 300
 Leu Arg Leu Pro Lys Gly Cys Pro Phe Gln Pro Arg Cys Pro His Ala
 305 310 315 320
 Met Glu Ile Cys Asn Ser Ala Pro Pro Leu Glu Ala Phe Val Pro Gly
 325 330 335
 Arg Leu Arg Ala Cys Phe Lys Pro Leu Glu Glu Val
 340 345 350

<210> 9170

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 9170

Asp Val Phe Ala Glu Phe Gly Val Leu Asn Phe Trp Thr Tyr Val Val
 1 5 10 15
 Gly Ala Phe Phe Ile Val Leu Val Pro Gly Thr Leu Phe Val
 20 25 30
 Leu Lys Thr Gly Ile Gly His Gly Val Lys Lys Gly Tyr Leu Ala Ala
 35 40 45
 Thr Gly Val Phe Ile Gly Asp Ala Val Leu Met Phe Leu Ala Trp Ala
 50 55 60
 Gly Val Ala Ala Leu Ile Gln Thr Thr Pro Val Leu Phe Asn Ile Val
 65 70 75 80
 Arg Tyr Leu Gly Ala Phe Tyr Leu Leu Trp Leu Gly Gly Lys Met Leu
 85 90 95
 Trp Ser Val Met Thr Arg Gln Lys Asn Ala His Glu Ser Ser Ala Glu
 100 105 110
 Pro Ala Ser Ala Ile Leu Lys Arg Ser Leu Val Leu Ser Leu Thr Asn
 115 120 125
 Pro Lys Ala Ile Leu Phe Tyr Val Ser Phe Phe Val Gln Phe Ile Asp
 130 135 140
 Val Asn Ala Lys Asn Thr Gly Thr Ser Phe Leu Ile Leu Ala Thr Thr
 145 150 155 160
 Leu Glu Leu Ile Ser Phe Met Tyr Met Ser Phe Leu Ile Phe Ser Gly
 165 170 175
 Ala Phe Val Thr Arg Tyr Leu Lys Thr Lys Lys Lys Leu Ala Lys Leu
 180 185 190

Gly Asn Gly Leu Ile Gly Leu Leu Phe Val Gly Phe Ala Ala Arg Leu
 195 200 205
 Ala Ser Leu His
 210

<210> 9171
 <211> 317
 <212> PRT
 <213> Enterobacter cloacae

<400> 9171
 Phe Gln Tyr Phe Thr Val Ser Arg Tyr His Arg Gly Phe Gly Cys Leu
 1 5 10 15
 Gln Pro Val Met Gly Ser Ala Leu Ser Asp Thr Thr Tyr Ala Val Ile
 20 25 30
 Tyr Asp Leu His Ser His Thr Gln Ala Ser Asp Gly Leu Leu Thr Pro
 35 40 45
 Glu Ala Leu Val His Arg Ala Val Glu Met Arg Val Gly Thr Leu Ala
 50 55 60
 Ile Thr Asp His Asp Thr Thr Asp Gly Ile Pro Ala Ala Arg Ala Glu
 65 70 75 80
 Ile Val Arg Ser Gly Leu Ala Leu Asp Leu Val Ala Gly Val Glu Ile
 85 90 95
 Ser Thr Val Trp Glu Asn His Glu Ile His Ile Val Gly Leu Asn Ile
 100 105 110
 Asp Thr Glu His Pro Ala Met Arg Ala Phe Leu Gln Glu Lys Thr
 115 120 125
 Arg Arg Asn Gln Arg Ala Glu Met Ile Gly Glu Arg Leu Glu Lys Ala
 130 135 140
 His Ile Pro Gly Ala Leu Glu Gly Ala Arg Lys Leu Ala Asn Gly Gly
 145 150 155 160
 Ala Val Thr Arg Gly His Phe Ala Arg Phe Leu Val Asp Ala Gly Lys
 165 170 175
 Ala Thr Thr Met Ala Asn Val Phe Lys Lys Tyr Leu Ala Arg Gly Lys
 180 185 190
 Thr Gly Tyr Val Pro Pro Gln Trp Cys Thr Ile Lys Gln Ala Ile Asp
 195 200 205
 Val Ile His His Ser Gly Gly Lys Ala Val Leu Ala His Pro Gly Arg
 210 215 220
 Tyr Asn Leu Ser Ala Lys Trp Leu Lys Arg Leu Leu Ala His Phe Ala
 225 230 235 240
 Glu Cys Gly Gly Glu Ala Met Glu Val Ala Gln Cys Gln Gln Ala Pro
 245 250 255
 Asn Glu Arg Ser Gln Leu Ala Thr Tyr Ala Arg Gln Phe Gly Leu Leu
 260 265 270
 Gly Ser Gln Gly Ser Asp Phe His Gln Pro Cys Ala Trp Ile Glu Leu
 275 280 285
 Gly Arg Lys Leu Trp Leu Pro Ala Gly Val Glu Pro Val Trp Gln Leu
 290 295 300
 Trp Glu Gln Pro Gln Gln Ile Glu Glu Arg Glu Val
 305 310 315

<210> 9172
 <211> 295
 <212> PRT
 <213> Enterobacter cloacae

<400> 9172
 Gly Ser Ser Met Ser Glu Lys Leu Gln Lys Val Leu Ala Arg Ala Gly
 1 5 10 15
 His Gly Ser Arg Arg Glu Ile Glu Ala Ile Ile Glu Ala Gly Arg Val

20 25 30
 Ser Val Asp Gly Lys Ile Ala Thr Leu Gly Asp Arg Val Glu Ile Val
 35 40 45
 Pro Gly Leu Lys Ile Arg Ile Asp Gly His Leu Ile Ser Val Lys Glu
 50 55 60
 Ser Ala Glu Gln Ile Cys Arg Val Leu Ala Tyr Tyr Lys Pro Glu Gly
 65 70 75 80
 Glu Leu Cys Thr Arg Asn Asp Pro Glu Gly Arg Pro Thr Val Phe Asp
 85 90 95
 Arg Leu Pro Lys Leu Arg Gly Ala Arg Trp Ile Ala Val Gly Arg Leu
 100 105 110
 Asp Val Asn Thr Cys Gly Leu Leu Leu Phe Thr Thr Asp Gly Glu Leu
 115 120 125
 Ala Asn Arg Leu Met His Pro Ser Arg Glu Val Glu Arg Glu Tyr Ala
 130 135 140
 Val Arg Val Phe Gly Gln Val Asp Glu Asn Lys Leu Arg Asp Leu Ser
 145 150 155 160
 Arg Gly Val Gln Leu Glu Asp Gly Pro Ala Ala Phe Lys Thr Ile Lys
 165 170 175
 Phe Thr Gly Gly Glu Gly Ile Asn Gln Trp Tyr Asn Val Thr Leu Thr
 180 185 190
 Glu Gly Arg Asn Arg Glu Val Arg Arg Leu Trp Glu Ala Val Gly Val
 195 200 205
 Gln Val Ser Arg Leu Ile Arg Val Arg Tyr Gly Asp Ile Leu Leu Pro
 210 215 220
 Lys Gly Leu Pro Arg Gly Gly Tyr Thr Glu Leu Asp Leu Thr Gln Thr
 225 230 235 240
 Asn Tyr Leu Arg Asp Leu Val Gly Leu Thr Pro Glu Thr Ser Ser Lys
 245 250 255
 Val Ala Val Glu Lys Asp Arg Arg Arg Met Lys Ala Asn Gln Ile Arg
 260 265 270
 Arg Ala Val Lys Arg His Ser Gln Val Ser Ser Asn Arg Arg Ser Gly
 275 280 285
 Ser Arg Asn Asn Asn Gly
 290 295

<210> 9173

<211> 870

<212> PRT

<213> Enterobacter cloacae

<400> 9173

Val Lys Val Asn Met Gly Lys Ala Leu Val Ile Val Glu Ser Pro Ala
 1 10 15
 Lys Ala Lys Thr Ile Asn Lys Tyr Leu Gly Asn Asp Tyr Val Val Lys
 20 25 30
 Ser Ser Val Gly His Ile Arg Asp Leu Pro Thr Ser Gly Ser Ala Ser
 35 40 45
 Lys Lys Ser Ala Asp Ser Thr Ser Thr Lys Gly Ala Lys Lys Pro Lys
 50 55 60
 Lys Asp Glu Arg Ser Ala Leu Val Asn Arg Met Gly Val Asn Pro Trp
 65 70 75 80
 Gln Asn Trp Asp Ala His Tyr Glu Val Leu Pro Gly Lys Glu Lys Val
 85 90 95
 Val Asn Glu Leu Lys Gln Leu Ala Glu Lys Ala Asp His Ile Tyr Leu
 100 105 110
 Ala Thr Asp Leu Asp Arg Glu Gly Glu Ala Ile Ala Trp His Leu Arg
 115 120 125
 Glu Val Ile Gly Gly Asp Asp Lys Arg Tyr Ser Arg Val Val Phe Asn
 130 135 140
 Glu Ile Thr Lys Asn Ala Ile Arg Gln Ala Phe Glu Lys Pro Gly Glu

145					150					155				160
Leu	Asn	Ile	Asp	Arg	Val	Asn	Ala	Gln	Gln	Ala	Arg	Arg	Phe	Met
					165				170					175
Arg	Val	Val	Gly	Tyr	Met	Val	Ser	Pro	Leu	Leu	Trp	Lys	Lys	Val
			180						185					190
Arg	Gly	Leu	Ser	Ala	Gly	Arg	Val	Gln	Ser	Val	Ala	Val	Arg	Leu
		195						200						205
Val	Glu	Arg	Glu	Arg	Glu	Ile	Lys	Ala	Phe	Val	Pro	Glu	Glu	Phe
	210					215					220			225
Glu	Val	Asp	Ala	Asn	Val	Thr	Thr	Pro	Gly	Gly	Asp	Ala	Leu	Pro
	225				230					235				240
Gln	Val	Ser	His	His	Asn	Asp	Lys	Pro	Phe	Arg	Pro	Glu	Asn	Arg
			245						250					255
Gln	Thr	Met	Ala	Ala	Val	Ala	Leu	Leu	Glu	Lys	Ala	Arg	Tyr	Gln
			260					265					270	275
Leu	Asp	Arg	Glu	Asp	Lys	Pro	Thr	Ser	Ser	Lys	Pro	Gly	Ala	Pro
		275					280					285		Phe
Ile	Thr	Ser	Thr	Leu	Gln	Gln	Ala	Ala	Ser	Thr	Arg	Leu	Gly	Tyr
	290					295					300			Gly
Val	Lys	Lys	Thr	Met	Met	Met	Ala	Gln	Arg	Leu	Tyr	Glu	Ala	Gly
	305				310					315				Tyr
Ile	Thr	Tyr	Met	Arg	Thr	Asp	Ser	Thr	Asn	Leu	Ser	Gln	Asp	Ala
			325						330					335
Asn	Met	Val	Arg	Gly	Tyr	Ile	Glu	Asp	Asn	Phe	Gly	Lys	Lys	Tyr
		340						345					350	Leu
Pro	Asp	Ser	Pro	Asn	Gln	Tyr	Ala	Ser	Lys	Glu	Asn	Ser	Gln	Glu
		355					360					365		Ala
His	Glu	Ala	Ile	Arg	Pro	Ser	Asp	Val	Ser	Val	Leu	Ala	Glu	Ser
	370					375					380			Leu
Lys	Asp	Met	Glu	Ala	Asp	Ala	Gln	Lys	Leu	Tyr	Gln	Leu	Ile	Trp
	385				390					395				Arg
Gln	Phe	Val	Ala	Cys	Gln	Met	Thr	Pro	Ala	Lys	Tyr	Asp	Ser	Thr
			405						410					415
Leu	Thr	Val	Gly	Ala	Gly	Asp	Phe	Arg	Leu	Lys	Ala	Arg	Gly	Arg
		420						425				430		Ile
Leu	Arg	Phe	Asp	Gly	Trp	Thr	Lys	Val	Met	Pro	Ala	Leu	Arg	Lys
		435					440					445		Gly
Asp	Glu	Asp	Arg	Thr	Leu	Pro	Ser	Val	Asn	Lys	Gly	Asp	Glu	Leu
	450					455					460			Ser
Leu	Val	Asp	Leu	Val	Pro	Ala	Gln	His	Phe	Thr	Lys	Pro	Pro	Ala
	465				470					475				480
Phe	Ser	Glu	Ala	Ser	Leu	Val	Lys	Glu	Leu	Glu	Lys	Arg	Gly	Ile
			485						490					495
Arg	Pro	Ser	Thr	Tyr	Ala	Ser	Ile	Ile	Ser	Thr	Ile	Gln	Asp	Arg
		500						505				510		Gly
Tyr	Val	Arg	Val	Glu	Asn	Arg	Arg	Phe	Tyr	Ala	Glu	Lys	Met	Gly
		515					520					525		Glu
Ile	Val	Thr	Asp	Arg	Leu	Glu	Ala	Asn	Phe	Arg	Glu	Leu	Met	Asn
	530					535					540			Tyr
Asp	Phe	Thr	Ala	Gln	Met	Glu	Asp	Ser	Leu	Asp	Glu	Val	Ala	Ser
	545				550					555				560
Lys	Ala	Glu	Trp	Lys	Lys	Val	Leu	Asp	Ser	Phe	Phe	Ser	Asp	Phe
			565						570					575
Asn	Gln	Leu	Glu	Lys	Ala	Glu	Lys	Asp	Pro	Glu	Glu	Gly	Gly	Met
		580						585					590	Leu
Pro	Asn	Gln	Met	Val	Leu	Thr	Ser	Ile	Asp	Cys	Pro	Thr	Cys	Gly
		595				600						605		Arg
Lys	Met	Gly	Ile	Arg	Thr	Ala	Thr	Thr	Gly	Val	Phe	Leu	Gly	Cys
	610					615					620			Ser
Gly	Tyr	Ala	Leu	Ser	Pro	Lys	Glu	Arg	Cys	Lys	Thr	Thr	Ile	Asn
	625				630					635				640

Val Pro Glu Asn Glu Val Leu Asn Val Leu Glu Gly Asp Asp Ala Glu
 645 650 655
 Thr Asn Ala Leu Arg Ala Lys Arg Arg Cys Lys Lys Cys Gly Thr Ala
 660 665 670
 Met Asp Ser Tyr Leu Ile Asp Pro Lys Arg Lys Leu His Val Cys Gly
 675 680 685
 Asn Asn Pro Thr Cys Asp Gly Tyr Glu Ile Glu Glu Gly Glu Phe Arg
 690 695 700
 Ile Lys Gly Tyr Asp Gly Pro Ile Val Glu Cys Glu Lys Cys Gly Ser
 705 710 715 720
 Glu Met His Leu Lys Met Gly Arg Phe Gly Lys Tyr Met Ala Cys Thr
 725 730 735
 Asn Asp Asp Cys Lys Asn Thr Arg Lys Ile Leu Arg Asn Gly Glu Val
 740 745 750
 Ala Pro Pro Lys Glu Asp Pro Val Pro Leu Pro Glu Leu Pro Cys Glu
 755 760 765
 Lys Ser Asp Ala Tyr Phe Val Leu Arg Asp Gly Ala Ala Gly Val Phe
 770 775 780
 Leu Ala Ala Asn Thr Phe Pro Lys Ser Arg Glu Thr Arg Ala Pro Leu
 785 790 795 800
 Val Glu Glu Leu Tyr Arg Phe Arg Asp Arg Leu Pro Glu Lys Leu Arg
 805 810 815
 Tyr Leu Ala Asp Ala Pro Gln Gln Asp Pro Glu Gly Asn Lys Thr Val
 820 825 830
 Val Arg Phe Ser Arg Lys Thr Lys Gln Gln Tyr Val Ala Ala Glu Lys
 835 840 845
 Glu Gly Lys Ala Thr Gly Trp Ser Ala Phe Phe Val Asp Gly Lys Trp
 850 855 860
 Val Glu Gly Lys Lys
 865 870

<210> 9174

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 9174

Ile Gly Trp Ser Gly Met Lys Leu Gln Gln Leu Arg Tyr Ile Val Glu
 1 5 10 15
 Val Val Asn His Asn Leu Asn Val Ser Ser Thr Ala Glu Gly Leu Tyr
 20 25 30
 Thr Ser Gln Pro Gly Ile Ser Lys Gln Val Arg Met Leu Glu Asp Glu
 35 40 45
 Leu Gly Ile Gln Ile Phe Ala Arg Ser Gly Lys His Leu Thr Gln Val
 50 55 60
 Thr Pro Ala Gly Gln Glu Ile Ile Arg Ile Ala Arg Glu Val Leu Ser
 65 70 75 80
 Lys Val Asp Ala Ile Lys Ser Val Ala Gly Glu His Thr Trp Pro Asp
 85 90 95
 Lys Gly Ser Leu Tyr Ile Ala Thr Thr His Thr Gln Ala Arg Tyr Ala
 100 105 110
 Leu Pro Gly Val Ile Lys Gly Phe Ile Glu Arg Tyr Pro Arg Val Ser
 115 120 125
 Leu His Met His Gln Gly Ser Pro Thr Gln Ile Ala Glu Ala Val Ser
 130 135 140
 Lys Gly Asn Ala Asp Phe Ala Ile Ala Thr Glu Ala Leu His Leu Tyr
 145 150 155 160
 Asp Asp Leu Val Met Leu Pro Cys Tyr His Trp Asn Arg Ser Ile Val
 165 170 175
 Val Thr Pro Asp His Pro Leu Ala Gly Lys Gly Glu Val Thr Ile Glu
 180 185 190

Glu Leu Ala Gln Tyr Pro Leu Val Thr Tyr Thr Phe Gly Phe Thr Gly
 195 200 205
 Arg Ser Glu Leu Asp Thr Ala Phe Asn Arg Ala Gly Leu Thr Pro Arg
 210 215 220
 Ile Val Phe Thr Ala Thr Asp Ala Asp Val Ile Lys Thr Tyr Val Arg
 225 230 235 240
 Leu Gly Leu Gly Val Gly Val Ile Ala Ser Met Ala Val Asp Pro Val
 245 250 255
 Ser Asp Pro Asp Leu Val Arg Leu Asp Ala His Asp Ile Phe Ser His
 260 265 270
 Ser Thr Thr Lys Ile Gly Phe Arg Arg Ser Thr Phe Leu Arg Ser Tyr
 275 280 285
 Met Tyr Asp Phe Ile Gln Arg Phe Ala Pro His Leu Thr Arg Asp Val
 290 295 300
 Val Asp Thr Ala Val Ala Leu Arg Ser Asn Glu Asp Ile Glu Glu Met
 305 310 315 320
 Phe Lys Asp Ile Lys Leu Pro Ala Lys
 325 330

<210> 9175

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 9175

Tyr Met Ala Glu Gln His Arg Gly Gly Thr Gly Asn Phe Ala Glu Asp
 1 5 10 15
 Arg Glu Lys Ala Ser Glu Ala Gly Arg Lys Gly Gly Gln His Ser Gly
 20 25 30
 Gly Asn Phe Lys Asn Asp Pro Gln Arg Ala Ser Glu Ala Gly Lys Lys
 35 40 45
 Gly Gly Gln Asn Ser His Gly Gly Gly Arg Lys Ser Asp Asn Ser
 50 55 60

<210> 9176

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 9176

Ile Tyr Arg Glu His Ala Ala Gly Pro Ser Ala Arg Ser Thr Phe Pro
 1 5 10 15
 Leu Phe His Trp Ser Glu Asn Met Asn Met Lys Thr Val Glu Asp Val
 20 25 30
 Phe Ile His Leu Leu Ser Asp Thr Tyr Ser Ala Glu Lys Gln Leu Thr
 35 40 45
 Arg Ala Leu Ser Lys Leu Ala Arg Ala Ala Ser Ser Glu Lys Leu Ser
 50 55 60
 Ala Ala Phe Thr Ala His Leu Glu Glu Thr Gln Gly Gln Ile Glu Arg
 65 70 75 80
 Ile Asp Gln Ile Ile Glu Gln Glu Ser Gly Leu Lys Leu Lys Arg Met
 85 90 95
 Lys Cys Val Ala Met Glu Gly Leu Ile Glu Glu Ala Asn Glu Val Ile
 100 105 110
 Glu Ser Thr Glu Lys Asn Glu Val Arg Asp Ala Ala Leu Ile Ala Ala
 115 120 125
 Ala Gln Lys Val Glu His Tyr Glu Ile Ala Ser Tyr Gly Thr Leu Ala
 130 135 140
 Thr Leu Ala Glu Gln Leu Gly Tyr Lys Lys Ala Val Lys Leu Leu Ala
 145 150 155 160
 Glu Thr Leu Glu Glu Glu Lys Glu Thr Asp Leu Lys Leu Thr Asp Leu

165 170 175
 Ala Val Gly Asn Ile Asn Gln Lys Ala Gln Lys Gly
 180 185

<210> 9177
 <211> 551
 <212> PRT
 <213> Enterobacter cloacae

<400> 9177
 Tyr Arg Arg Leu Ser Leu Arg Ile Thr Met Ala Gly Trp His Thr Arg
 1 5 10 15
 Ala Ile Ile Tyr Gln Ile Asp Thr Ala Leu Phe Tyr Asp Leu Asn Gly
 20 25 30
 Asp Gly Cys Gly Asp Ile Ala Gly Ile Ala Ala Lys Leu Arg Tyr Ile
 35 40 45
 Arg Arg Met Gly Ala Thr Val Ile Trp Ile Thr Pro Phe Tyr Leu Thr
 50 55 60
 Pro Phe Leu Asp Glu Gly Tyr Asp Val Ser Asp His Leu Gln Val Asp
 65 70 75 80
 Pro Arg Phe Gly Lys Leu Asn Asp Ile Ile Ala Phe Ile Glu Gln Ala
 85 90 95
 Arg Glu Leu Gly Met Gln Val Ile Ile Glu Leu Leu Ile Gln His Thr
 100 105 110
 Ser Asp Ala His Pro Trp Phe Gln Gln Ala Arg Arg Asn Pro Gln Ser
 115 120 125
 Pro Tyr Arg Asp Tyr Tyr Leu Trp Ser Asp Thr Asp Asp Asp Thr
 130 135 140
 Pro Pro Met Phe Pro Gly Val Glu Lys Ser Ile Trp Thr Trp Asp Asp
 145 150 155 160
 Glu Ala Gly Gln Tyr Tyr Arg His Met Phe Tyr His His Glu Pro Asp
 165 170 175
 Leu Asn Leu Ala Ser Pro Ala Val Leu Lys Glu Val Glu Asn Ile Ile
 180 185 190
 Ile Phe Trp Leu Lys Leu Gly Val Ser Gly Phe Arg Leu Asp Ala Ala
 195 200 205
 Ser His Leu Thr Lys Gln Ala Gly Arg Gly Asp Glu Lys Arg Gly Leu
 210 215 220
 Trp Ile Leu Glu His Leu Arg Arg Leu Ile Glu Gln Arg Asn Pro Asp
 225 230 235 240
 Ala Ile Leu Leu Gly Glu Val Asp Val Glu Val Glu Ala Tyr Lys Asp
 245 250 255
 Tyr Phe Gly Gln Asn Asp Arg Leu Asn Leu Val Leu Asn Phe Trp Leu
 260 265 270
 Asn Lys Tyr Phe Tyr Val Ser Leu Ala Glu Lys Ser Ala Arg Pro Leu
 275 280 285
 Arg Asn Ala Val Lys Lys Met Ile Val Pro Pro Asp Ser Cys Cys Phe
 290 295 300
 Ala Asn Trp Leu Arg Asn His Asp Glu Leu Asp Leu Glu Gly Ile Gly
 305 310 315 320
 Lys Lys Thr Lys Gln Thr Val Ile Asp Ala Phe Ala Pro Asp Glu Glu
 325 330 335
 Met Ser Val Tyr Gln Arg Gly Ile Arg Arg Arg Leu Ala Pro Met Leu
 340 345 350
 Asn Gly Asp Arg Lys Arg Leu Ala Phe Cys His Ala Val Leu Phe Ser
 355 360 365
 Leu Pro Gly Val Pro Val Met Arg Tyr Gly Asp Glu Ile Gly Met Gly
 370 375 380
 Asp Asp Leu Glu Leu Glu Arg Tyr Ala Val Arg Thr Pro Met Gln
 385 390 395 400
 Trp Ala Gly Ser Gln Gly Gly Gly Phe Ser Asp Ala Asp Pro Glu Thr

405 410 415
 Phe Ile Ala Pro Met Ile Asp Arg Gly Pro Tyr Arg Tyr Gln Lys Ile
 420 425 430
 Asn Val Ala Asp Ser Leu Leu His Arg Asn Ser Leu Leu His Cys Ile
 435 440 445
 Ile Asp Ile Ala Asn Thr Arg Ser Glu Phe Pro Glu Ile Gly Val Ala
 450 455 460
 Pro Phe Arg Leu Ile Asn Ile Asp Ser Asp Ala Val Leu Gly Ile Tyr
 465 470 475 480
 Tyr Glu Thr Asp Thr Arg Ser Ile Leu Thr Phe Val Asn Phe Ser Asp
 485 490 495
 Lys Pro Val Asn Phe Thr Ala Arg Gly Ile Arg His Ala Thr Trp Thr
 500 505 510
 Ala Cys Leu Ala Asp Lys Arg Tyr Asn Asp Ala Leu Val Cys Gly Lys
 515 520 525
 Thr Val Ala Leu Asn Leu Ser Gly Tyr Gly Tyr Arg Trp Phe Trp Thr
 530 535 540
 Asp Arg Thr Ala Leu Arg
 545 550

<210> 9178

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 9178

Gln Gln Tyr Leu Ile Ser Gln Asp Ile Gln Asn Glu Gly Tyr Gln Met
 1 5 10 15
 Lys Leu Ser Val Ile Ser Ala Leu Leu Ile Leu Ile Pro Thr Ala
 20 25 30
 Trp Ala Asp Asn Asn Gly Gly Leu Gln Lys Gly Asp Ala Pro Pro Pro
 35 40 45
 Pro His Ala Leu Asp Ser Gly Tyr Arg Gly Thr Asp Asp Ala Arg Ile
 50 55 60
 Met Thr Ile Thr Gln Ala Lys Glu Met His Asp Gly Ala Ser Ile Ser
 65 70 75 80
 Leu Arg Gly Asn Leu Ile Asp Gly Asn Gly Asp Lys Tyr Val Phe Gln
 85 90 95
 Asp Lys Thr Gly Lys Ile Asp Val Ile Ile Pro Lys Ala Val Phe Asp
 100 105 110
 Asp Arg Thr Val Glu Pro Asp Asn Met Ile Ser Ile Ser Gly Ser Leu
 115 120 125
 Asp Lys Lys Ser Ser Pro Pro Val Val Arg Val Ser His Leu Gln Lys
 130 135 140

145

<210> 9179

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 9179

Thr Ile Lys His Phe Gly Thr Gly Ala Ser Met Ser Ile Gln Glu His
 1 5 10 15
 Val Ile Leu Val Asn Asp Gln Gly Lys Val Ile Gly Thr Gln Glu Lys
 20 25 30
 Tyr Ala Ala His Thr Ser His Thr Pro Leu His Leu Ala Phe Ser Ser
 35 40 45
 Trp Leu Phe Asn Ala Asn Gly Glu Cys Leu Ile Thr Arg Arg Ala Leu
 50 55 60

Ser Lys Lys Ala Trp Pro Gly Val Trp Thr Asn Ser Val Cys Gly His
 65 70 75 80
 Pro Gln Ala Asp Glu Ala Thr Glu Gln Ala Ile Ile Arg Arg Cys Arg
 85 90 95
 Phe Glu Val Gly Ala Glu Ile Thr Asp Ile Thr Pro Ile Ala Pro Glu
 100 105 110
 Phe Arg Tyr Arg Glu Ala Asp Pro Ser Gly Ile Val Glu Asn Glu Ile
 115 120 125
 Cys Pro Val Tyr Ala Ala Arg Val Thr Asn Thr Leu Ala Ile Asn Asp
 130 135 140
 Asp Glu Val Met Glu Tyr Gln Trp Val Glu Leu Asp Ala Leu Phe Arg
 145 150 155 160
 Ala Leu Asp Ala Thr Pro Trp Ala Phe Ser Pro Trp Met Val Gln Glu
 165 170 175
 Ala Asn Thr Ala Arg Glu Lys Leu Ser Ala Phe Ala Ala Gln
 180 185 190

<210> 9180

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 9180

Asp Ser Tyr Ala Met Asn Ile Gly Leu Phe Tyr Gly Ser Ser Thr Cys
 1 5 10 15
 Tyr Thr Glu Met Ala Ala Glu Lys Ile Arg Asp Ile Ile Gly Pro Glu
 20 25 30
 Leu Val Thr Leu His Asn Leu Lys Asp Asp Ala Val Ala Leu Met Glu
 35 40 45
 Gln Tyr Asp Val Leu Ile Leu Gly Ile Pro Thr Trp Asp Phe Gly Glu
 50 55 60
 Ile Gln Glu Asp Trp Glu Ala Ile Trp Asp Gln Leu Asp Ser Val Asn
 65 70 75 80
 Phe Glu Gly Lys Ile Ile Ala Met Tyr Gly Met Gly Asp Gln Leu Gly
 85 90 95
 Tyr Gly Glu Trp Phe Leu Asp Ala Leu Gly Met Leu His Asp Lys Leu
 100 105 110
 Ala Pro Lys Gly Ala Thr Phe Ile Gly Tyr Trp Pro Thr Glu Gly Tyr
 115 120 125
 Glu Phe Thr Ser Pro Lys Pro Val Ile Ala Asp Gly Gln Leu Phe Val
 130 135 140
 Gly Leu Ala Leu Asp Glu Thr Asn Gln Tyr Asp Leu Ser Asp Glu Arg
 145 150 155 160
 Leu Gln Thr Trp Cys Glu Gln Ile Leu Gly Glu Met Ala Glu Gln Phe
 165 170 175
 Ser

<210> 9181

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 9181

Ala Pro Cys Pro Met Gln Lys Glu Asn Asn Met Arg Ala Leu Ile Ala
 1 5 10 15
 Leu Leu Leu Leu Ser Leu Ser Thr Phe Gly Phe Ala Ala Pro Ser Asp
 20 25 30
 Asp Ala Ser Ser Asp Gln Leu Ala Lys Leu Leu Phe Asn Asp Pro Asn
 35 40 45
 Ser Pro Arg Thr Gly Ala Ala Ser Pro Lys Leu Thr Ile Val Ser Phe

50 55 60
 Thr Asp Tyr Asn Cys Pro Tyr Cys Lys Gln Phe Asp Pro Met Leu Glu
 65 70 75 80
 Lys Ile Val Gln Glu Asn Pro Asp Val Gln Leu Ile Val Lys Leu Leu
 85 90 95
 Pro Phe Lys Gly Gln Ser Ser Val Asn Ala Ala Lys Ala Ala Leu Ser
 100 105 110
 Thr Trp Gln Gln Ala Pro Asp Lys Phe Trp Ala Leu His Gln Arg Leu
 115 120 125
 Met Met Lys Lys Gly Tyr His Asp Asp Ala Ser Ile Ala Ala Ala Lys
 130 135 140
 Val Lys Thr Gly Thr Asp Ser Ile Lys Thr Asp Asp Lys Thr Met Asp
 145 150 155 160
 Ser Leu Lys Met Asn Leu Ile Leu Ala Gln Val Leu Asn Ile Gln Gly
 165 170 175
 Thr Pro Ala Thr Ile Ile Gly Asp Gln Met Val Ala Gly Ala Ile Pro
 180 185 190
 Tyr Asp Asp Leu Glu Gly Leu Val Lys Glu Gln Leu Ala Asn Ala Arg
 195 200 205
 Gly Lys
 210

<210> 9182

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 9182

Ser Glu Lys Ile Thr Lys Glu Gly Glu Thr Met Phe Arg His Val Lys
 1 5 10 15
 Gln Leu Gln Tyr Thr Val Arg Val Ala Glu Pro Asn Pro Gly Leu Ala
 20 25 30
 Asn Leu Leu Glu Gln Phe Gly Gly Pro Gln Gly Glu Leu Ala Ala
 35 40 45
 Ala Cys Arg Tyr Phe Thr Gln Gly Leu Ser Asp Asp Asp Pro Gly Arg
 50 55 60
 Lys Asp Met Leu Met Asp Ile Ala Thr Glu Glu Leu Ser His Leu Glu
 65 70 75 80
 Ile Ile Gly Thr Leu Val Gly Met Leu Asn Lys Gly Ala Lys Gly Glu
 85 90 95
 Leu Ala Glu Gly Val Glu Asn Glc Ala Glu Leu Tyr Arg Ser Met Thr
 100 105 110
 Glu Asn Gly Asn Asp Ser His Ile Thr Ser Leu Leu Tyr Gly Gly Gly
 115 120 125
 Thr Pro Leu Thr Asn Ser Gly Gly Val Pro Trp Thr Ala Ala Tyr Val
 130 135 140
 Asp Thr Ile Gly Glu Pro Thr Ala Asp Leu Arg Ser Asn Ile Ala Ala
 145 150 155 160
 Glu Ala Arg Ala Lys Ile Ile Tyr Glu Arg Leu Ile Asn Val Thr Asp
 165 170 175
 Asp Pro Gly Val Lys Asp Ala Leu Ala Phe Leu Met Thr Arg Glu Ala
 180 185 190
 Ala His Gln Leu Ser Phe Glu Lys Ala Leu Gln Ser Ile Arg Asn Asn
 195 200 205
 Phe Pro Pro Gly Lys Leu Pro Pro Ile Glu Glu Tyr Thr Asn Lys Tyr
 210 215 220
 Tyr Asn Met Ser Glu Gly Gly Glu Val Arg Gly Ser Trp Asn Ser Asp
 225 230 235 240
 Lys His Phe Asp Tyr Val Glu Ser Pro Gln Pro Ala Val Asp Gly Gly
 245 250 255
 Asp Gly Gly Ala Ser Val Thr Leu Thr Thr Glu Gln Ala Thr Leu Val

	260		265		270
Lys	Ala Met	Cys Ala Arg Thr	Lys Ser Asp Pro Asn	Ala Asp Pro Leu	
	275		280		285
Thr	Gly Ala Glu Leu Gly Ala	Gly Lys Lys Lys	Pro		
	290	295	300		

<210> 9183
 <211> 359
 <212> PRT
 <213> Enterobacter cloacae

<400> 9183

Tyr	Ile	Gly	His	Pro	Cys	Pro	Ser	Ala	Val	Arg	Arg	Arg	Val	Cys	Ser
1			5						10					15	
Gly	Arg	Gly	Glu	Asp	Leu	Met	Gly	Val	Asp	Ile	Pro	Val	Ile	Trp	Phe
			20					25					30		
Ala	Ile	Ile	Val	Phe	Ala	Thr	Leu	Met	Tyr	Ile	Ile	Met	Asp	Gly	Phe
			35				40					45			
Asp	Leu	Gly	Ile	Gly	Met	Leu	Phe	Ser	Phe	Val	Gly	Asp	Ala	Lys	Glu
	50				55						60				
Arg	Asp	Val	Met	Val	Asn	Ser	Val	Ala	Pro	Val	Trp	Asp	Gly	Asn	Glu
65					70					75				80	
Thr	Trp	Leu	Val	Leu	Gly	Gly	Ala	Gly	Leu	Phe	Gly	Ala	Phe	Pro	Leu
					85				90					95	
Ala	Tyr	Ala	Val	Ile	Asp	Ala	Leu	Thr	Ile	Pro	Leu	Thr	Ala	Met	
			100				105					110			
Leu	Ile	Gly	Leu	Ile	Phe	Arg	Gly	Val	Ala	Phe	Glu	Phe	Arg	Phe	Lys
			115				120					125			
Ala	Thr	Pro	Ser	His	Arg	Lys	Phe	Trp	Asp	Tyr	Ser	Phe	Ala	Gly	Gly
	130					135				140					
Ser	Leu	Leu	Ala	Thr	Phe	Ser	Gln	Gly	Ile	Val	Val	Gly	Ala	Met	Ile
145					150				155					160	
Asn	Gly	Phe	Asp	Val	Glu	Gly	Arg	Arg	Phe	Val	Gly	Ser	Ser	Leu	Asp
			165						170					175	
Trp	Phe	Thr	Pro	Phe	Asn	Leu	Phe	Cys	Gly	Leu	Gly	Leu	Ile	Val	Ala
			180					185					190		
Tyr	Thr	Leu	Leu	Ala	Thr	Thr	Trp	Leu	Ile	Met	Lys	Ser	Glu	Gly	Ala
	195						200					205			
Leu	Gln	Asn	Arg	Met	Arg	Glu	Leu	Thr	Arg	His	Val	Leu	Leu	Ala	Leu
	210					215					220				
Ile	Ala	Val	Ile	Ala	Val	Val	Ser	Ile	Trp	Thr	Pro	Leu	Gly	Trp	Gln
225					230					235				240	
Phe	Val	Ala	Glu	Arg	Trp	Phe	Thr	Leu	Pro	Asn	Phe	Phe	Trp	Phe	Leu
			245						250					255	
Pro	Val	Pro	Val	Leu	Val	Ala	Val	Phe	Ser	Leu	Trp	Ile	Trp	Arg	Leu
			260					265				270			
Thr	Arg	Asn	Pro	Asp	Ser	His	Ala	Arg	Pro	Phe	Leu	Leu	Thr	Leu	Gly
		275				280						285			
Leu	Ile	Phe	Leu	Gly	Phe	Ser	Gly	Leu	Gly	Ile	Ser	Leu	Trp	Pro	His
	290					295					300				
Ile	Ile	Pro	Pro	His	Ile	Thr	Leu	Trp	Glu	Ala	Ala	Ala	Pro	Pro	Ala
305				310					315					320	
Ser	Gln	Leu	Phe	Met	Leu	Ile	Gly	Thr	Leu	Leu	Ile	Ile	Pro	Val	Ile
			325						330					335	
Leu	Val	Tyr	Thr	Ala	Trp	Ser	Tyr	Tyr	Val	Phe	Arg	Gly	Lys	Val	Ser
		340					345						350		
Asp	Thr	Glu	Gly	Tyr	His										
			355												

<210> 9184
 <211> 310

<212> PRT

<213> *Enterobacter cloacae*

<400> 9184

```

Arg Cys Asn Tyr Pro Ser Asn Leu Thr Pro Asn Lys Glu Leu Ala Met
1      5      10      15
Ser Asp Asn Glu Gln Arg Thr Asn Ala Tyr Pro Thr Pro Pro Phe Pro
20      25      30
Lys Gln Pro Gln Thr Pro Pro Gly Leu Ser Ser Glu Met Glu Pro Val
35      40      45
Pro Asp His Gly Glu Lys Ser Tyr Lys Gly His Gly Arg Leu Ala Gly
50      55      60
Lys Lys Ala Leu Ile Thr Gly Gly Asp Ser Gly Ile Gly Arg Ala Val
65      70      75      80
Ala Ile Ala Tyr Ala Arg Glu Gly Ala Asp Val Ala Ile Asn Tyr Leu
85      90      95
Pro Glu Glu Glu Glu Asp Ala Ala Glu Val Ile Thr Leu Ile Lys Ala
100     105     110
Glu Gly Arg Asn Ala Val Ala Leu Pro Gly Asp Val Arg Asp Glu Thr
115     120     125
Phe Cys Gln Asn Leu Val Glu Gln Ala Val Ser Lys Leu Gly Gly Leu
130     135     140
Asp Ile Leu Val Asn Asn Ala Gly Arg Gln Gln Tyr Arg Glu Ser Leu
145     150     155     160
Glu Glu Leu Thr Thr Glu Asp Phe Asp Ala Thr Phe Lys Thr Asn Val
165     170     175
Tyr Ala Pro Phe Trp Ile Thr Lys Ala Ala Leu Arg His Met Lys Ala
180     185     190
Pro Ala Ser Ile Ile Asn Thr Ser Ser Val Gln Ala Val Lys Pro Ser
195     200     205
Ala Val Leu Leu Asp Tyr Ala Gln Thr Lys Ala Cys Leu Ala Val Phe
210     215     220
Thr Lys Ala Leu Ala Lys Gln Leu Gly Pro Lys Gly Ile Arg Val Asn
225     230     235     240
Ala Val Ala Pro Gly Pro Tyr Trp Thr Val Leu Gln Pro Ser Gly Gly
245     250     255
Gln Pro Gln Glu Lys Val Lys His Phe Gly Glu Ser Thr Pro Leu Gly
260     265     270
Arg Pro Gly Gln Pro Val Glu Ile Ala Pro Leu Tyr Val Thr Leu Ala
275     280     285
Ser Asp Glu Cys Ser Tyr Ser Ser Gly Gln Val Trp Cys Ser Asp Gly
290     295     300
Gly Asp Gly Val Ile
305      310

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<210> 9185

<211> 509

<212> PRT

<213> *Enterobacter cloacae*

<400> 9185

```

Gln Ile Thr Ile Ser Thr Asn Cys Tyr Ile Val Thr Phe Asn Ser Ala
1      5      10      15
Leu Leu Asp Ser Lys Ser Ile Ser Pro Glu Leu Arg Ile Ala Lys Met
20      25      30
Lys Lys Leu Thr Leu Pro Lys Asp Phe Leu Trp Gly Gly Ala Val Ala
35      40      45
Ala His Gln Val Glu Gly Gly Trp Asn Lys Gly Gly Lys Gly Pro Ser
50      55      60
Ile Cys Asp Val Leu Thr Gly Gly Ala His Gly Val Pro Arg Glu Ile
65      70      75      80

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Thr Gln Glu Val Ile Glu Gly Lys Tyr Tyr Pro Asn His Glu Ala Val
 85 90 95
 Asp Phe Tyr Gly His Tyr Lys Glu Asp Ile Lys Leu Phe Ala Glu Met
 100 105 110
 Gly Phe Lys Cys Phe Arg Thr Ser Ile Ala Trp Thr Arg Ile Phe Pro
 115 120 125
 Lys Gly Asp Glu Thr Gln Pro Asn Glu Glu Gly Leu Lys Phe Tyr Asp
 130 135 140
 Asp Met Phe Asp Glu Leu Leu Lys Tyr Asn Ile Glu Pro Val Ile Thr
 145 150 155 160
 Leu Ser His Phe Glu Met Pro Leu His Leu Val Gln Glu Tyr Gly Gly
 165 170 175
 Trp Thr Asn Arg Lys Val Val Asp Phe Phe Val Arg Phe Ser Glu Val
 180 185 190
 Val Phe Glu Arg Tyr Lys Asn Lys Val Lys Tyr Trp Met Thr Phe Asn
 195 200 205
 Glu Ile Asn Asn Gln Arg Asn Trp Arg Ala Pro Leu Phe Gly Tyr Cys
 210 215 220
 Cys Ser Gly Val Val Tyr Thr Glu His Asp Asn Pro Glu Glu Thr Met
 225 230 235 240
 Tyr Gln Val Leu His His Gln Phe Val Ala Ser Ala Leu Ala Val Lys
 245 250 255
 Ala Ala Arg Arg Ile Asn Pro Glu Met Lys Val Gly Cys Met Leu Ala
 260 265 270
 Met Val Ala Leu Tyr Pro Tyr Ser Cys Lys Pro Glu Asp Val Met Phe
 275 280 285
 Ala Gln Glu Ser Met Arg Glu Arg Tyr Val Phe Thr Asp Val Gln Leu
 290 295 300
 Arg Gly Tyr Tyr Pro Ser Tyr Val Leu Asn Glu Trp Glu Arg Arg Gly
 305 310 315 320
 Phe Ser Ile Arg Met Glu Ala Gly Asp Glu Gln Ile Leu Arg Glu Gly
 325 330 335
 Thr Cys Asp Tyr Leu Gly Phe Ser Asp Tyr Met Thr Asn Ala Val Lys
 340 345 350
 Ala Glu Gly Gly Thr Gly Asp Ala Ile Ser Gly Phe Glu Gly Ser Val
 355 360 365
 Pro Asn Pro His Val Lys Ala Ser Asp Trp Gly Trp Gln Ile Asp Pro
 370 375 380
 Val Gly Leu Arg Tyr Ser Leu Cys Glu Leu Tyr Glu Arg Tyr Gln Lys
 385 390 395 400
 Pro Leu Phe Ile Val Glu Asn Gly Phe Gly Ala Tyr Asp Lys Val Glu
 405 410 415
 Glu Asp Gly Ser Ile Asn Asp Asp Tyr Arg Ile Asp Tyr Leu Arg Ala
 420 425 430
 His Val Glu Glu Met Met Lys Ala Val Thr Trp Asp Gly Val Asp Leu
 435 440 445
 Met Gly Tyr Thr Pro Trp Gly Cys Ile Asp Cys Val Ser Phe Thr Thr
 450 455 460
 Gly Gln Tyr Ser Lys Arg Tyr Gly Phe Ile Tyr Val Asn Lys His Asp
 465 470 475 480
 Asp Gly Thr Gly Asp Met Ser Arg Ser Arg Lys Lys Ser Phe Glu Trp
 485 490 495
 Tyr Lys Thr Val Ile Ala Ser Asn Gly Glu Thr Leu
 500 505

<210> 9186

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 9186

```

Ile Phe Arg Val Pro Arg Arg Pro Leu Ser Ala Thr Arg Trp Trp Arg
1      5      10      15
Ala Pro Phe Arg Met Thr Thr Trp Arg Gly Trp Ser Lys Asn Ser Trp
20      25      30
Gln Thr Pro Val Ala Ser Lys Leu Pro Arg Leu Leu Arg Gly Leu Gly
35      40      45
Val Trp Leu Leu Ile Gly Val Ala Val Ser Leu Ala Val Asp Tyr Phe
50      55      60
Arg Gln Pro Ala Leu Pro Gln Asn Phe Ser Ala Thr Ala Leu His Thr
65      70      75      80
Leu Asp Gly Gln Pro Val Asp Leu Ile Ala Met Ser Lys Glu Arg Pro
85      90      95
Leu Leu Val Tyr Val Trp Ala Thr Trp Cys Gly Val Cys Arg Tyr Thr
100      105      110
Thr Pro Ser Val Ala Ala Leu Ala Ala Asp Gly Gly Asn Val Met Ser
115      120      125
Val Ala Leu Arg Ser Gly Asp Asn Ala Thr Leu Glu Thr Trp Met Arg
130      135      140
Lys Lys Lys Ala Met Met Pro Thr Val Asn Asp Ala Ser Gly Glu Leu
145      150      155      160
Ala Arg Glu Trp Asp Val Lys Val Thr Pro Thr Leu Val Val Ile Ser
165      170      175
His Gly Glu Val Lys Ser Ile Thr Thr Gly Trp Thr Ser Gly Trp Gly
180      185      190
Met Arg Leu Arg Leu Trp Leu Ala Ser
195      200

```

<210> 9187

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 9187

```

Tyr Ala Val Ala Ile Thr Asn Ser Leu Thr Glu Gln Leu Ala Lys Arg
1      5      10      15
Met Thr Val Asp Thr Gly Met Arg Met Leu Val Ser Phe Gly Val Val
20      25      30
Leu Ile Leu Asn Leu Ile Phe Leu Met Gly Arg His Ile Thr Ile Lys
35      40      45
Val Met Gly Phe Leu Val Phe Pro Leu Ile Ala Tyr Phe Leu Phe Val
50      55      60
Ser Leu Tyr Leu Thr Gly Ser Trp Gln Pro Ser Leu Leu Thr Ser Gln
65      70      75      80
Met Ala Phe Asp Gln His Thr Leu His Gln Val Trp Ile Ser Ile Pro
85      90      95
Val Met Val Phe Ala Phe Ser His Thr Pro Ile Ile Ser Thr Phe Ala
100      105      110
Val Asp Arg Arg Glu Lys Tyr Gly Glu Glu Ala Met Gly Lys Cys Lys
115      120      125
Lys Ile Met Lys Val Ala Tyr Leu Ile Ile Cys Leu Ser Val Leu Phe
130      135      140
Phe Val Phe Ser Cys Leu Leu Ser Ile Pro Pro Ser Tyr Ile Val Ala
145      150      155      160
Ala Lys Glu Glu Gly Val Thr Ile Leu Ser Ala Leu Ser Met Met Pro
165      170      175
Ser Ser Pro Ala Trp Leu Gly Ile Ser Gly Ile Ile Val Ala Ile Ile
180      185      190
Ala Met Ser Lys Ser Phe Leu Gly Thr Tyr Phe Gly Val Ile Glu Gly
195      200      205
Ala Thr Glu Ile Val Lys Ser Ser Leu Asn Gln Val Gly Val Lys Lys
210      215      220

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```

Ser Arg Ala Phe Asn Arg Ala Val Ser Ile Leu Gly Val Ser Leu Ile
225          230          235          240
Thr Phe Ala Val Cys Cys Ile Asn Pro Asn Ala Ile Ser Met Ile Tyr
          245          250          255
Ala Ile Ser Gly Pro Leu Ile Ala Met Ile Leu Phe Ile Met Pro Thr
          260          265          270
Leu Ser Thr Tyr Leu Ile Pro Ser Leu Lys Pro Tyr Arg Ser Ile Gly
          275          280          285
Asn Leu Leu Thr Leu Ile Val Gly Val Leu Cys Val Ser Val Met Phe
          290          295          300
Val Gly
305

```

<210> 9188

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 9188

```

Pro Asp Asn Lys Ser Gln Glu Leu Ile Met Asn His Val Glu His Tyr
1          5          10          15
His Asp Trp Leu Arg Asp Ala His Ala Met Glu Lys Gln Ala Glu Ser
          20          25          30
Met Leu Glu Ser Met Ala Ser Arg Ile Asp Asn Tyr Pro Asp Leu Arg
          35          40          45
Ala Arg Ile Glu Gln His Val Asn Glu Thr Lys His Gln Ile Thr Val
          50          55          60
Leu Glu Glu Ile Leu Asp Arg Asn Asp Ile Ser Arg Ser Val Ile Lys
65          70          75          80
Asp Ser Met Ser Lys Met Ala Ala Leu Gly Gln Ser Ile Gly Gly Met
          85          90          95
Phe Pro Ser Asp Glu Ile Val Lys Gly Ser Ile Ser Gly Tyr Val Phe
          100          105          110
Glu Gln Phe Glu Ile Ala Cys Tyr Thr Ser Leu Leu Ala Ala Ala Lys
          115          120          125
Gln Ala Gly Asp Thr Ala Ser Ile Pro Ala Ile Glu Ser Ile Leu Glu
          130          135          140
Glu Glu Arg Gln Met Ala Asp Trp Leu Leu Gln His Ile Pro Gln Thr
          145          150          155          160
Thr Glu Gln Phe Leu Leu Arg Ser Asp Ala Asp Gly Val Glu Ala Lys
          165          170          175
Lys

```

<210> 9189

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 9189

```

Gly Cys Leu Ala Met Pro Cys Ala Leu Ser Val Pro Glu Val Arg Ser
1          5          10          15
Met Phe Glu Leu Asp Ala Phe His Leu Ala Arg Ile Gln Phe Ala Phe
          20          25          30
Thr Val Ser Phe His Ile Leu Phe Pro Ala Ile Thr Ile Gly Leu Ala
          35          40          45
Ser Tyr Leu Val Val Leu Glu Gly Met Trp Leu Arg Thr Lys Asn Asp
          50          55          60
Val Trp Arg Ser Leu Tyr His Phe Trp Leu Lys Ile Phe Ala Val Asn
65          70          75          80
Phe Gly Met Gly Val Val Ser Gly Leu Val Met Ala Tyr Gln Phe Gly

```

[illegible]

<210> 9190

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 9190

Ala Ile Gln Asp Ile Thr Met Ala Phe Thr Pro Phe Ser Pro Arg Gln
1 5 10 15
Pro Ala Ala Ser Ala Arg Leu Pro Leu Thr Leu Ile Thr Leu Asp Asp

Trp	20					25					30				
	Ala	Leu	Ala	Thr	Leu	Thr	Gly	Ala	Asp	Ser	Glu	Lys	Tyr	Leu	Gln
Gly	Gln	Val	Thr	Ala	Asp	Val	Ala	Gln	Leu	Thr	Glu	His	Gln	His	Leu
	50					55				60					
Leu	Ala	Ala	His	Cys	Asp	Pro	Lys	Gly	Lys	Met	Trp	Ser	Asn	Leu	Arg
65					70					75				80	
Leu	Phe	Arg	Arg	Gln	Asp	Gly	Phe	Ala	Phe	Ile	Glu	Arg	Arg	Ser	Leu
				85					90					95	
Arg	Asp	Ala	Gln	Leu	Lys	Glu	Leu	Lys	Lys	Tyr	Ala	Val	Phe	Ser	Lys
				100				105					110		
Val	Thr	Ile	Ala	Leu	Asp	Asp	Glu	Tyr	Val	Leu	Leu	Gly	Val	Ala	Gly
		115				120						125			
Phe	Gln	Ala	Arg	Ala	Ala	Leu	Lys	Asn	Leu	Phe	Ala	Glu	Leu	Pro	Asp
	130					135					140				
Ala	Glu	Lys	Gln	Leu	Val	Ser	Glu	Gly	Ala	Thr	Ser	Ile	Leu	Trp	Phe
145					150					155				160	
Glu	His	Pro	Ala	Glu	Arg	Phe	Leu	Leu	Val	Thr	Asp	Glu	Ala	Thr	Ala
				165					170					175	
Glu	Arg	Val	Thr	Asp	Ala	Leu	Arg	Gly	Glu	Ala	Gln	Leu	Asn	Asn	Ser
		180						185					190		
Gln	Gln	Trp	Leu	Ala	Leu	Asn	Ile	Glu	Ala	Gly	Leu	Pro	Val	Ile	Asp
		195				200						205			
Ala	Ala	Asn	Ser	Ala	Gln	Phe	Ile	Pro	Gln	Ala	Thr	Asn	Ile	Gln	Ala
	210					215					220				
Leu	Gly	Gly	Ile	Ser	Phe	Lys	Lys	Gly	Cys	Tyr	Thr	Gly	Gln	Glu	Met
225					230					235				240	
Val	Ala	Arg	Ala	Lys	Phe	Arg	Gly	Ala	Asn	Lys	Arg	Ala	Leu	Trp	Thr
				245					250					255	
Leu	Ala	Gly	His	Ala	Ser	Arg	Val	Pro	Glu	Ala	Gly	Glu	Asp	Leu	Glu
		260						265					270		
Met	Lys	Met	Gly	Glu	Asn	Trp	Arg	Arg	Thr	Gly	Thr	Val	Leu	Ala	Ala
		275					280					285			
Val	Gln	Leu	Asp	Asp	Gly	Arg	Leu	Leu	Val	Gln	Val	Val	Met	Asn	Asn
	290					295					300				
Asp	Met	Glu	Pro	Asp	Ser	Val	Phe	Arg	Val	Arg	Asp	Asp	Ala	Asn	Thr
305					310					315				320	
Leu	Ser	Ile	Glu	Pro	Leu	Pro	Tyr	Ser	Leu	Glu	Asp				
				325					330						

<210> 9191

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 9191

Cys	Pro	Thr	Ala	Ser	Leu	Ala	Ile	Val	Ser	Met	Phe	Ser	His	Ser	Ala
1				5					10					15	
Ile	Ala	Ser	Leu	Asn	Asn	Leu	Glu	Met	Met	Val	Tyr	Asn	Tyr	Val	Ile
			20					25					30		
Lys	Asn	Arg	Asp	Lys	Val	Met	Tyr	Met	Thr	Ile	Arg	Glu	Leu	Ala	Asp
			35				40					45			
Ala	Ala	Gly	Val	Ser	Thr	Thr	Thr	Ile	Leu	Arg	Phe	Cys	Arg	Lys	Leu
			50				55				60				
Asn	Cys	Asp	Gly	Tyr	Ser	Glu	Phe	Arg	Val	Arg	Phe	Lys	Leu	Tyr	Leu
65					70					75				80	
Glu	Gln	Asn	Glu	Pro	Gln	Gln	Ala	Asn	Phe	Gly	Ala	Ser	Glu	Ile	Ile
				85					90					95	
Ser	Phe	Phe	Lys	Ser	Val	Asn	Asn	Glu	Glu	Phe	Asp	Ala	Leu	Leu	Asp
			100					105					110		
Lys	Ala	Val	Asp	Ile	Ile	Leu	Ser	Ser	Glu	Arg	Ile	Ile	Phe	Val	Gln

```

      115              120              125
Ala Gly Thr Ser Gly Ser Leu Ala Lys Tyr Gly Ala Arg Phe Phe Ser
130              135              140
Asn Ile Gly Lys Phe Ser Asn His Ile Asp Asp Pro Tyr Phe Pro Val
145              150              155              160
Thr Asn Asp Met Ala Lys Asn Ala Leu Ala Ile Val Leu Ser Val Ser
      165              170              175
Gly Glu Thr Glu Glu Ile Leu Arg Phe Ala Ser Gln Phe Ser Leu His
      180              185              190
His Cys Lys Val Leu Ser Val Thr Ser His Glu His Ser Arg Leu Ala
      195              200              205
Lys Leu Ala Asp Phe Asn Leu Ser Trp His Val Pro Gln Thr Arg Ile
      210              215              220
Gly Gly Val Tyr Asp Ile Thr Thr Gln Ile Pro Val Ile Tyr Ile Leu
      225              230              235              240
Glu Ser Leu Gly Arg Lys Leu Ala Lys Lys Leu Thr Glu
      245              250

```

<210> 9192

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 9192

```

Ile Phe Glu Ala Asn Met Ile Lys Arg Gln Arg Asn Ala Ile Leu Leu
1      5      10      15
Val Ala Leu Ala Cys Leu Val Val Leu Ile Cys Thr Ala Gln Arg Met
      20      25      30
Ala Gly Met His Ala Leu Val Met Asn Val Thr Ala Thr Ser Gln Ser
      35      40      45
Val Gln Gln Gly Gln Glu Ser Thr Asp Ala Pro Val Thr Pro Cys Glu
      50      55      60
Leu Ser Ala Lys Ser Leu Met Ser Val Pro Val Leu Phe Glu Gly
      65      70      75      80
Ala Leu Ile Ala Val Thr Leu Leu Leu Ala Leu Ala Ala Ser Pro
      85      90      95
Pro Arg Arg Glu Arg Gln Trp Pro Pro Arg Val Ile Ser Pro Pro Arg
      100      105      110
Leu Arg Val His Leu Arg Leu Cys Val Phe Arg Glu
      115              120              125

```

<210> 9193

<211> 671

<212> PRT

<213> Enterobacter cloacae

<400> 9193

```

Phe Met Phe Thr Val Phe Arg Arg Leu Leu Val Cys Leu Leu Trp Leu
1      5      10      15
Trp Leu Pro Leu Ser Gln Ala Ala Asp Ser Gly Trp Leu Arg Ala Ala
      20      25      30
Asp Asn Gln His Ala Ser Val Arg Leu Arg Ala Gln Pro Glu Ser Thr
      35      40      45
Gly Glu Thr Arg Leu Leu Leu Asp Val Ala Leu Gln Lys Gly Trp Lys
      50      55      60
Thr Tyr Trp Arg Ser Pro Gly Glu Gly Val Ala Pro Ala Ile Lys
      65      70      75      80
Trp His Gln Pro Val Glu Ala Lys Trp Arg Trp Pro Val Pro Gln Arg
      85      90      95
Phe Asp Val Ala Gly Ile Thr Thr Gln Gly Tyr His Gly Asp Val Ser
      100      105      110

```

Phe Pro Ile Thr Leu Arg Gly Asp Val Pro Lys Ile Leu Ser Gly Val
 115 120 125
 Leu Thr Leu Ser Thr Cys Ser Asn Val Cys Ile Leu Thr Asp Tyr Pro
 130 135 140
 Phe Ser Leu Asn Met Thr Ala Ser Ala Gly Ala Gly Phe Asp Tyr Asp
 145 150 155 160
 Phe Ser Arg Ala Met Gly Thr Leu Pro Leu Ser Gly Gly Leu Thr Ser
 165 170 175
 Thr Leu Asn Ala Thr Tyr Ala Pro Gly Lys Leu Thr Val Thr Ala Gln
 180 185 190
 Arg Asp Ala Gly Trp Gln Ala Pro Ser Leu Phe Ile Asp Gly Met Asp
 195 200 205
 Asp Val Asp Phe Gly Lys Pro Ala Leu Thr Val Arg Gly Asp Ser Leu
 210 215 220
 Val Ala Thr Val Pro Val Thr Asp Ser Trp Gly Glu Ala Ala Pro Asn
 225 230 235 240
 Leu Ser Gly Lys Thr Leu Ser Leu Val Leu Ala Asp Ser Gly Gln Ala
 245 250 255
 Gln Glu Ser Ser Leu Ser Ile Gln Pro Gly Asn Ala Ala Pro Thr Leu
 260 265 270
 Ser Leu Gly Trp Val Leu Leu Met Ala Leu Ala Gly Gly Leu Ile Leu
 275 280 285
 Asn Val Met Pro Cys Val Leu Pro Val Leu Ala Met Lys Leu Gly Thr
 290 295 300
 Leu Met Gln Thr Glu Arg Gln Ala Arg Gly Gln Val Arg Arg Gln Phe
 305 310 315 320
 Leu Ala Ser Val Ala Gly Ile Val Ile Ser Phe Leu Ala Leu Ala Leu
 325 330 335
 Met Met Thr Val Leu Arg Leu Gly Asn Gln Ala Leu Gly Trp Gly Ile
 340 345 350
 Gln Phe Gln Asn Pro Trp Phe Ile Gly Ala Met Ala Met Val Met Val
 355 360 365
 Leu Phe Ser Ala Ser Leu Leu Gly Leu Phe Glu Ile Arg Leu Pro Ser
 370 375 380
 Val Ala Ser Thr Phe Leu Ala Thr Arg Gly Gly Asn Gly Leu Ala Gly
 385 390 395 400
 His Phe Trp Gln Gly Ala Phe Ala Thr Leu Leu Ala Thr Pro Cys Thr
 405 410 415
 Ala Pro Phe Leu Gly Thr Ala Val Ser Val Ala Leu Ala Ala Pro Leu
 420 425 430
 Pro Leu Leu Trp Gly Ile Phe Leu Ala Met Gly Ile Gly Met Ser Leu
 435 440 445
 Pro Trp Leu Leu Val Ala Val Trp Pro Gly Leu Ala Gln Arg Leu Pro
 450 455 460
 Arg Pro Gly Arg Trp Met Asn Val Val Arg Val Val Leu Gly Met Met
 465 470 475 480
 Met Leu Gly Ser Ser Leu Trp Leu Leu Ser Leu Leu Thr Val His Ile
 485 490 495
 Gly Ser Leu Pro Val Ile Thr Leu Gly Val Leu Leu Ile Leu Thr Leu
 500 505 510
 Leu Leu Val Thr Ala Trp Arg Tyr Arg Trp Gln Thr Ala Leu Arg Ala
 515 520 525
 Gly Val Leu Ala Val Val Val Ala Gly Ala Val Ala Phe Val Ser Gly
 530 535 540
 Ser Gly Gly Glu Gly Ser Arg Arg Asp Arg Ile His Trp Gln Pro Leu
 545 550 555 560
 Ser Glu Gln Ala Ile Ala Arg Ala Leu Ala Glu Asn Lys Arg Val Phe
 565 570 575
 Val Asp Val Thr Ala Asp Trp Cys Val Thr Cys Lys Ala Asn Lys Tyr
 580 585 590
 Asn Val Leu Leu Arg Asp Asp Val Gln Asp Ala Leu Ser Ala Pro Asp


```

      595              600              605
Val Val Ala Leu Arg Gly Asp Trp Ser Arg Pro Ser Asp Thr Ile Ser
 610              615              620
Gln Phe Leu Thr Thr Arg Gly Ser Ala Val Pro Phe Asn Gln Ile
 625              630              635
Tyr Gly Pro Gly Leu Pro Gln Gly His Val Leu Pro Ala Leu Leu Ser
      645              650              655
Arg Glu Ala Val Leu Ser Thr Leu Ser Asp Ala Lys Gly Lys
      660              665              670

```

<210> 9194

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9194

```

Ser Glu Ala Ala Thr Arg Leu Phe Tyr Trp Glu Lys Arg Met Ala Ile
 1              5              10              15
Ala Leu Val Thr Gly Ala Ser Arg Gly Ile Gly Lys Ala Thr Ala Leu
      20              25              30
Gln Leu Ala Ser Glu Gly Tyr Thr Val Ala Val Asn Phe His His Asn
      35              40              45
Ile Lys Ala Ala Thr Glu Val Ile Asn Gln Ile Val Asp Ala Gly Gly
      50              55              60
Lys Ala Phe Ala Val Arg Ala Asp Ile Ser Asp Glu Ala Gln Val Met
      65              70              75              80
Ala Met Phe Ala Ser Leu Asp Arg Glu Gly Glu Pro Leu Ala Ala Leu
      85              90              95
Val Asn Asn Ala Gly Ile Leu Phe Glu Gln Ser Thr Ile Glu Asn Leu
      100              105              110
Ser Ala Glu Arg Ile Asn Arg Val Leu Ala Thr Asn Val Thr Gly Tyr
      115              120              125
Phe Leu Cys Cys Arg Glu Ala Val Lys Arg Met Ser His Lys His Gly
      130              135              140
Gly Lys Gly Gly Ala Ile Val Asn Val Ser Ser Ala Ala Ser Arg Leu
      145              150              155              160
Gly Ala Pro Gly Glu Tyr Val Asp Tyr Ala Ala Ser Lys Gly Ala Val
      165              170              175
Asp Ser Leu Thr Thr Gly Leu Ala Leu Glu Val Ala Ala His Gly Ile
      180              185              190
Arg Val Asn Cys Val Arg Pro Gly Leu Ile Tyr Thr Asp Ile His Ala
      195              200              205
Ser Gly Gly Glu Pro Gly Arg Val Asp Arg Val Lys Ser Met Leu Pro
      210              215              220
Met Gln Arg Gly Gly Gln Pro Glu Glu Val Ala Gln Ala Ile Ala Trp
      225              230              235              240
Leu Leu Ser Asp Lys Ala Ser Tyr Val Thr Gly Ser Phe Leu Glu Leu
      245              250              255
Ala Gly Gly Lys
      260

```

<210> 9195

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 9195

```

Ser Ser Phe Val Phe Pro Glu Leu Ser Met Val Ser Arg Pro Leu Ile
 1              5              10              15
Ala Gln Gly Tyr Ser Leu Ala Glu Glu Val Ala Asn Ser Ile Ser His
      20              25              30

```

Gly Ile Gly Leu Val Phe Gly Ile Val Gly Leu Val Leu Leu Val
 35 40 45
 Gln Ala Val Asp Thr Asn Ala Ser Ala Met Ala Ile Thr Ser Tyr Ser
 50 55 60
 Leu Tyr Gly Gly Ser Met Ile Leu Leu Phe Leu Ala Ser Thr Leu Tyr
 65 70 75 80
 His Ala Ile Pro His Gln Arg Ala Lys Ile Trp Leu Lys Lys Phe Asp
 85 90 95
 His Cys Ala Ile Tyr Leu Leu Ile Ala Gly Thr Tyr Thr Pro Phe Leu
 100 105 110
 Leu Val Gly Leu Asn Ser Pro Leu Ser Arg Gly Leu Met Ile Val Ile
 115 120 125
 Trp Ser Leu Ala Leu Leu Gly Ile Leu Phe Lys Leu Thr Ile Ala His
 130 135 140
 Arg Phe Lys Val Leu Ser Leu Val Thr Tyr Leu Thr Met Gly Trp Leu
 145 150 155 160
 Ser Leu Ile Val Val Tyr Gln Leu Ala Ile Lys Leu Ala Val Gly Gly
 165 170 175
 Val Thr Leu Leu Ala Val Gly Gly Val Val Tyr Ser Leu Gly Val Ile
 180 185 190
 Phe Tyr Val Cys Lys Arg Ile Pro Tyr Asn His Ala Ile Trp His Gly
 195 200 205
 Phe Val Leu Gly Gly Ser Val Cys His Phe Leu Ala Ile Tyr Leu Tyr
 210 215 220
 Val Gly Gln Val
 225

<210> 9196

<211> 291

<212> PRT

<213> *Enterobacter cloacae*

<400> 9196

Thr Thr Ala Leu Ile Tyr Ala Trp Cys Arg Cys Cys Leu Asp Thr Ala
 1 5 10 15
 Ile Phe Gln Arg Arg Lys Tyr Thr Pro Met Ser Arg Arg Asn Ala Cys
 20 25 30
 Gly Ser Tyr Thr Asn Ser Thr Thr Leu Ala Arg Glu Cys Arg Arg Ile
 35 40 45
 Val Thr Gly Thr Tyr Met Lys Lys Ser Leu Ala Leu Phe Thr Leu Leu
 50 55 60
 Ala Ala Ser Val Ser Gly Phe Ala His Ala Asp Asp Ala Ala Ile Lys
 65 70 75 80
 Gln Ser Leu Thr Lys Leu Gly Val Ala Ser Ser Glu Ile Gln Pro Ala
 85 90 95
 Pro Val Ala Gly Met Lys Thr Val Leu Thr Asn Ser Gly Val Leu Tyr
 100 105 110
 Val Thr Glu Asp Gly Lys His Ile Ile Gln Gly Pro Met Tyr Asp Val
 115 120 125
 Ser Gly Ala Gln Pro Val Asn Val Thr Asn Gln Leu Leu Met Lys Asn
 130 135 140
 Leu Asn Ala Leu Glu Lys Glu Met Ile Val Tyr Lys Ala Ala Gln Glu
 145 150 155 160
 Lys His Val Ile Thr Val Phe Thr Asp Ile Thr Cys Gly Tyr Cys His
 165 170 175
 Lys Leu His Glu Glu Met Lys Asp Tyr Asn Ala Leu Gly Ile Thr Val
 180 185 190
 Arg Tyr Leu Ala Phe Pro Arg Ala Gly Val Gln Ser Gln Pro Glu Gln
 195 200 205
 Asp Met Lys Ala Ile Trp Cys Ala Lys Asp Arg Asn Lys Ala Phe Asp
 210 215 220

Asp Ala Met Asn Gly Lys Gly Val Lys Pro Ala Ser Cys Asp Ile Asp
 225 230 235 240
 Ile Ala Asn His Tyr Ala Leu Gly Val Gln Phe Gly Val Ser Gly Thr
 245 250 255
 Pro Ala Ile Val Leu Ser Asn Gly Tyr Val Pro Gly Tyr Gln Gly
 260 265 270
 Pro Lys Glu Met Lys Ala Phe Leu Asp Glu His Gln Lys Gln Met Gly
 275 280 285
 Gly Lys
 290

<210> 9197

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 9197

Lys Thr Ala Phe Arg Trp Ser Arg Ser Ala Leu Thr Phe Leu Gly Gly
 1 5 10 15
 Ile Phe Asp Tyr Asp Ala Lys Lys Glu Arg Leu Glu Glu Val Asn Ala
 20 25 30
 Glu Leu Glu Gln Pro Asp Val Trp Asn Glu Pro Glu Arg Ala Gln Ala
 35 40 45
 Leu Gly Lys Glu Arg Ser Ser Leu Glu Ala Ile Val Asp Thr Leu Asp
 50 55 60
 Gln Met Ala Gln Gly Leu Glu Asp Val Ser Gly Leu Leu Glu Leu Ala
 65 70 75 80
 Val Glu Ala Asp Asp Glu Glu Thr Phe Asn Glu Ala Val Ala Glu Leu
 85 90 95
 Asp Val Leu Glu Glu Lys Leu Ala Gln Leu Glu Phe Arg Arg Met Phe
 100 105 110
 Ser Gly Glu Tyr Asp Ser Ala Asp Cys Tyr Leu Asp Ile Gln Ala Gly
 115 120 125
 Ser Gly Gly Thr Glu Ala Gln Asp Trp Ala Ser Met Leu Met Arg Met
 130 135 140
 Tyr Leu Arg Trp Ala Glu Ala Arg Gly Phe Lys Thr Glu Ile Ile Glu
 145 150 155 160
 Glu Ser Glu Gly Glu Val Ala Gly Ile Lys Ser Val Thr Ile Lys Ile
 165 170 175
 Ile Gly Asp Tyr Ala Tyr Gly Trp Leu Arg Thr Glu Thr Gly Val His
 180 185 190
 Arg Leu Val Arg Lys Ser Pro Phe Asp Ser Gly Gly Arg Arg His Thr
 195 200 205
 Ser Phe Ser Ser Ala Phe Val Tyr Pro Glu Val Asp Glu Asp Ile Asp
 210 215 220
 Ile Asp Ile Asn Pro Ala Asp Leu Arg Ile Asp Val Tyr Arg Ala Ser
 225 230 235 240
 Gly Ala Gly Gly Gln His Val Asn Arg Thr Glu Ser Ala Val Arg Ile
 245 250 255
 Thr His Ile Pro Thr Gly Leu Val Thr Gln Cys Gln Asn Asp Arg Ser
 260 265 270
 Gln His Lys Asn Lys Asp Gln Ala Met Lys Gln Met Lys Ala Lys Leu
 275 280 285
 Tyr Glu Leu Glu Met Gln Lys Lys Asn Ala Glu Lys Gln Ala Met Glu
 290 295 300
 Asp Asn Lys Ser Asp Ile Gly Trp Gly Ser Gln Ile Arg Ser Tyr Val
 305 310 315 320
 Leu Asp Asp Ser Arg Ile Lys Asp Leu Arg Thr Gly Val Glu Thr Arg
 325 330 335
 Asn Thr Gln Ala Val Leu Asp Gly Ser Leu Asp Gln Phe Ile Glu Ala
 340 345 350

Ser Leu Lys Ala Gly Leu
355

<210> 9198

<211> 509

<212> PRT

<213> *Enterobacter cloacae*

<400> 9198

Gly	Thr	Asn	Met	Ser	Ser	Glu	Gln	Gln	Ala	Gln	Gly	Ala	Asp	Ala	Val	Val
1				5					10						15	
Asp	Leu	Asn	Asn	Glu	Leu	Lys	Thr	Arg	Arg	Glu	Lys	Leu	Ala	Ala	Leu	
		20						25					30			
Arg	Glu	Gln	Gly	Val	Pro	Phe	Pro	Asn	Asp	Phe	Arg	Arg	Asp	His	Thr	
		35					40					45				
Ser	Asp	Gln	Leu	His	Ala	Asp	Phe	Asp	Gly	Lys	Glu	Asn	Glu	Glu	Leu	
	50					55				60						
Glu	Ala	Leu	Asn	Val	Glu	Val	Ser	Val	Ala	Gly	Arg	Met	Met	Thr	Arg	
65					70				75					80		
Arg	Ile	Met	Gly	Lys	Ala	Ser	Phe	Val	Thr	Leu	Gln	Asp	Val	Gly	Gly	
			85						90					95		
Arg	Ile	Gln	Leu	Tyr	Val	Ser	Arg	Asp	Asp	Leu	Pro	Glu	Gly	Ile	Tyr	
			100				105					110				
Asn	Glu	Gln	Phe	Lys	Lys	Trp	Asp	Leu	Gly	Asp	Ile	Leu	Gly	Ala	Lys	
		115					120					125				
Gly	Lys	Leu	Phe	Lys	Thr	Lys	Thr	Gly	Glu	Leu	Ser	Ile	His	Cys	Thr	
	130				135					140						
Glu	Leu	Arg	Leu	Leu	Thr	Lys	Ala	Leu	Arg	Pro	Leu	Pro	Asp	Lys	Phe	
145					150				155					160		
His	Gly	Leu	Gln	Asp	Gln	Glu	Ala	Arg	Tyr	Arg	Gln	Arg	Tyr	Leu	Asp	
			165						170					175		
Leu	Ile	Ser	Asn	Asp	Glu	Ser	Arg	Lys	Thr	Phe	Lys	Ile	Arg	Ser	Gln	
		180						185					190			
Ile	Met	Ala	Gly	Ile	Arg	Gln	Phe	Met	Val	Asn	Arg	Asp	Phe	Met	Glu	
		195					200					205				
Val	Glu	Thr	Pro	Met	Met	Gln	Val	Ile	Pro	Gly	Gly	Ala	Ser	Ala	Arg	
		210				215					220					
Pro	Phe	Ile	Thr	His	His	Asn	Ala	Leu	Asp	Leu	Asp	Met	Tyr	Leu	Arg	
225					230				235					240		
Ile	Ala	Pro	Glu	Leu	Tyr	Leu	Lys	Arg	Leu	Val	Val	Gly	Gly	Phe	Asp	
			245						250					255		
Arg	Val	Phe	Glu	Ile	Asn	Arg	Asn	Phe	Arg	Asn	Glu	Gly	Ile	Ser	Val	
		260					265						270			
Arg	His	Asn	Pro	Glu	Phe	Thr	Met	Met	Glu	Leu	Tyr	Met	Ala	Tyr	Ala	
		275					280					285				
Asp	Tyr	Lys	Asp	Leu	Ile	Glu	Leu	Thr	Glu	Ser	Leu	Phe	Arg	Thr	Leu	
	290					295					300					
Ala	Gln	Asp	Ile	Leu	Gly	Thr	Thr	Gln	Val	Pro	Tyr	Gly	Glu	Glu	Val	
305					310				315					320		
Phe	Asp	Phe	Gly	Lys	Pro	Phe	Glu	Lys	Leu	Thr	Met	Arg	Glu	Ala	Ile	
			325						330					335		
Lys	Lys	Tyr	Arg	Pro	Glu	Thr	Asn	Met	Ala	Asp	Leu	Asp	Asn	Phe	Asp	
			340				345						350			
Ser	Ala	Lys	Ala	Ile	Ala	Glu	Ser	Ile	Gly	Ile	Lys	Val	Glu	Lys	Ser	
		355				360						365				
Trp	Gly	Leu	Gly	Arg	Ile	Val	Thr	Glu	Ile	Phe	Glu	Glu	Val	Ala	Glu	
		370				375					380					
Ala	His	Leu	Ile	Gln	Pro	Thr	Phe	Ile	Thr	Glu	Tyr	Pro	Ala	Glu	Val	
385					390					395				400		
Ser	Pro	Leu	Ala	Arg	Arg	Asn	Asp	Glu	Asn	Pro	Glu	Ile	Thr	Asp	Arg	
			405						410					415		

```

Phe Glu Phe Phe Ile Gly Gly Arg Glu Ile Gly Asn Gly Phe Ser Glu
      420      425      430
Leu Asn Asp Ala Glu Asp Gln Ala Gln Arg Phe Gln Asp Gln Val Asn
      435      440      445
Ala Lys Ala Ala Gly Asp Asp Glu Ala Met Phe Phe Asp Glu Asp Tyr
      450      455      460
Val Thr Ala Leu Glu His Gly Leu Pro Pro Thr Ala Gly Leu Gly Ile
      465      470      475      480
Gly Ile Asp Arg Met Val Met Leu Phe Thr Asn Ser His Thr Ile Arg
      485      490      495
Asp Val Ile Leu Phe Pro Ala Met Arg Pro Val Lys
      500      505

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```

<210> 9199
<211> 212
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 9199
Leu Tyr Gln Val Asn Gly Ile Phe Met Lys Lys Thr Val Ile Ala Leu
1      5      10      15
Ile Val Ala Asn Val Phe Thr Ala Thr Ser Ala Phe Ala Ala Asp
      20      25      30
Ala Gly Thr Trp Tyr Ser Gly Ala Lys Phe Gly Trp Ser His Tyr Phe
      35      40      45
Asp Thr Asn Met Gly Ser Lys Ala Phe Glu Asn Thr His Ser Asp His
      50      55      60
Phe Asp Phe Asp His Asp Asn Val Ser Gly Gly Val Tyr Thr Gly Tyr
65      70      75      80
Gln Ile Thr Pro Trp Leu Ala Val Glu Gly Gly Tyr Asp Tyr Leu Gly
      85      90      95
Asn Met Gln Ile Lys Gly Gln His Gly Ala Gly Ala Gln Met Lys Thr
      100      105      110
Gln Gly Leu Gln Leu Ser Leu Lys Ala Ser Tyr Ala Leu Thr Asn Asp
      115      120      125
Trp Asp Ile Tyr Gly Arg Thr Gly Ala Met Gly Tyr Arg Ala Glu Ser
      130      135      140
Asp Val Ser Gly His Asn Arg Phe Glu Thr Gly Val Arg Pro Leu Ala
145      150      155      160
Ala Val Gly Thr Glu Tyr Ala Phe Asn Lys Asn Trp Ala Gly Arg Leu
      165      170      175
Glu Tyr Gln Trp Val Ser Asn Val Gly Asn Val Asn Gln Ile Gly Val
      180      185      190
Ser Ser Asp Leu Ser Ser Val Thr Ala Gly Leu Ser Tyr Arg Phe Gly
      195      200      205
Gln Tyr Asp
210

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```

<210> 9200
<211> 345
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 9200
Ser Lys Tyr Ser Pro Ala Gly Ile Thr Ser Glu Thr Arg Gly Lys Ala
1      5      10      15
Met Ala Val Ile Val Ile Thr Gly Gly Thr Ala Gly Val Gly Lys Ala
      20      25      30
Thr Ala Leu His Phe Ala Lys Ala Gly Tyr Asp Val Gly Ile Ile Ala
      35      40      45
Arg Asp Glu Gln Ser Leu Arg Ser Thr Glu Glu Glu Leu Cys Arg Phe

```

50		55		60
Gly Ile Asn Ala Cys	Ala Val Gln Ala Asp	Val Ala Asp Ser Lys Ala		
65	70	75	80	
Val Thr Asp Ala Ala Asn Glu Ile Glu Tyr Arg Leu Gly Ala Ile Asp				
	85	90	95	
Val Trp Val Asn Asn Ala Met Gly Gly Met Leu Ala Pro Phe Arg Thr				
	100	105	110	
Met Ser Pro Glu Glu Phe Arg Arg Val Thr Glu Val Thr Tyr Leu Gly				
	115	120	125	
Tyr Val Asn Gly Thr Arg Ala Ala Leu Glu Leu Met Thr Pro Arg Asp				
	130	135	140	
Arg Gly Thr Ile Ile Gln Val Gly Ser Ala Leu Ala Tyr Arg Ser Ile				
	145	150	155	160
Pro Leu Gln Ser Ala Tyr Cys Gly Ala Lys Ala Ala Ile Arg Gly Phe				
	165	170	175	
Thr Asp Ala Val Arg Thr Glu Leu Met His Glu Asn Ser Arg Val Gln				
	180	185	190	
Ile Ala Met Val Gln Met Pro Gly Leu Asn Thr Pro Gln Phe Glu Trp				
	195	200	205	
Ala Arg Asn Lys Phe Ser Trp Ala Met Arg Pro Val Pro Val Phe				
	210	215	220	
Gln Pro Glu Val Ala Ala Ser Ala Ile Phe Lys Val Ala Gln Lys Pro				
	225	230	235	240
Val Arg Glu Leu Trp Val Gly Ser Ser Thr Val Gln Ser Ile Val Gly				
	245	250	255	
Gln Phe Leu Phe Pro Gly Phe Leu Asp Arg Leu Met Val Lys Lys Ala				
	260	265	270	
Trp Glu Gly Gln Met Thr Asp Thr Leu Asn Ala Asp Asp Arg Gln Asp				
	275	280	285	
Tyr Leu Asp Gln Pro Val Asn Asp Leu His Lys Ile His Gly His Phe				
	290	295	300	
Thr Asp Glu Ala Lys Glu Arg Ala Thr Ser Val Thr Ser Gly Met Pro				
	305	310	315	320
Gly Lys Val Leu Leu Gly Ser Leu Ala Val Thr Gly Ala Ile Val Ala				
	325	330	335	
Arg Leu Met Leu Ser Arg Arg Arg				
	340	345		

<210> 9201

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 9201

Arg Gly Gln Ala Asp Arg Leu Arg Val Cys Phe Phe Cys His His Asn				
1	5	10	15	
Asn Tyr Arg Gly Asn Ile Met Asp Gln Glu Leu Leu Asp Ala Gly Tyr				
	20	25	30	
Arg Ala Tyr Thr Gly Glu Lys Ile Asp Val Tyr Phe Asn Thr Gly Ile				
	35	40	45	
Cys Lys His Ser Gly Asn Cys Val Arg Gly Ser Ala Ala Leu Phe Asp				
	50	55	60	
Leu Lys Arg Lys Pro Trp Ile Ala Pro Asp Glu Val Asp Ala Glu Thr				
	65	70	75	80
Val Val Arg Val Ile Asp Thr Cys Pro Ser Gly Ala Leu Lys Tyr Arg				
	85	90	95	
Gln Lys				

<210> 9202

<211> 94

<212> PRT

<213> *Enterobacter cloacae*

<400> 9202

Cys Arg Lys Gln Asn Met Asp Ile Asn Asn Lys Ala Arg Ile His Trp
 1 5 10 15
 Ala Cys Arg Arg Gly Met Arg Glu Leu Asp Ile Ser Ile Met Pro Phe
 20 25 30
 Phe Glu Tyr Glu Tyr Asp Ser Leu Ser Asp Asp Asp Lys Arg Leu Phe
 35 40 45
 Val Arg Leu Leu Glu Ser Asp Asp Pro Asp Leu Phe Asn Trp Leu Met
 50 55 60
 Asn His Gly Lys Pro Ala Asp Thr Glu Leu Gln Arg Met Val Gln Leu
 65 70 75 80
 Ile Gln Thr Arg Asn Gln Glu Arg Gly Pro Val Ala Ile
 85 90

<210> 9203

<211> 257

<212> PRT

<213> *Enterobacter cloacae*

<400> 9203

Cys Ala Ile His Ala Asp Arg Gly Ala Val Leu Phe Ala Gly Ser Leu
 1 5 10 15
 Thr Arg Asn Pro Ile Ile Ala Val Phe Cys Leu Thr Leu Thr Leu Leu
 20 25 30
 Val Ala Gly Cys Ser Gly Ser Lys Ser Ser Asp Met Gly Ser Tyr Ser
 35 40 45
 Gly Ala Val Tyr Thr Val Lys Arg Gly Asp Thr Leu Tyr Arg Ile Ser
 50 55 60
 Arg Ala Thr Gly Thr Ser Val Lys Glu Leu Ala Arg Leu Asn Asn Ile
 65 70 75 80
 Ser Pro Pro Tyr Thr Ile Glu Val Gly Gln Lys Leu Lys Val Asn Gly
 85 90 95
 Gly Ser Ser Ser Gly Lys Lys Ser Ser Thr Arg Lys Thr Ala Lys Val
 100 105 110
 Thr Pro Ser Tyr Gln Val Pro Lys Ser Ser Trp Pro Pro Val Gly Gln
 115 120 125
 Arg Cys Trp Ile Trp Pro Ala Ser Gly Lys Val Val Ala Pro Tyr Ser
 130 135 140
 Leu Ser Glu Gly Gly Asn Lys Gly Ile Asp Ile Ala Ala Ala Arg Gly
 145 150 155 160
 Thr Pro Val Tyr Ala Ser Gly Ala Gly Lys Val Val Tyr Val Gly Asn
 165 170 175
 Gln Leu Arg Gly Tyr Gly Asn Leu Ile Met Ile Lys His Gly Glu Asp
 180 185 190
 Tyr Ile Thr Ala Tyr Ala His Asn Asp Thr Met Leu Val Asn Asn Gly
 195 200 205
 Gln Asn Val Lys Ala Gly Gln Lys Ile Ala Thr Met Gly Ser Thr Gly
 210 215 220
 Thr Asp Thr Val Lys Leu His Phe Gln Ile Arg Tyr Lys Ala Thr Ala
 225 230 235 240
 Ile Asp Pro Gln Arg Tyr Leu Pro Ala Gln Gly Ser Lys Pro Lys Cys
 245 250 255

<210> 9204

<211> 234

<212> PRT

<213> *Enterobacter cloacae*

<400> 9204

```

Arg Gln Cys Lys Arg Asn His Glu Glu Arg Asn Met Ala Ala Thr Asn
1      5      10      15
Gly Met Ile Asp Thr Asp Asp Ala Val Ile Leu Leu Ile Asp His Gln
      20      25      30
Ser Gly Leu Phe Asn Thr Val Arg Asp Val Pro Val Pro Asp Leu Arg
      35      40      45
Asn Tyr Val Thr Ala Ile Ala Lys Val Ala Thr Leu Leu Asn Ile Pro
      50      55      60
Val Ile Thr Thr Ala Ser Val Pro Asp Gly Pro Asn Gly Pro Leu Ile
      65      70      75
Pro Glu Ile His Lys Tyr Ala Pro His Ala Val Tyr Val Pro Arg Thr
      85      90      95
Gly Gln Ile Asn Thr Trp Asp Asn Pro Ala Phe Val Lys Glu Val Glu
      100     105     110
Lys Thr Gly Arg Lys Thr Leu Ile Ile Ala Gly Thr Leu Thr Ser Val
      115     120     125
Gys Met Ala Phe Pro Ala Val Ser Ala Val His Glu Gly Tyr Lys Val
      130     135     140
Tyr Cys Val Val Asp Ala Ser Gly Asn Trp Ser Lys Ile Ala Thr Asp
      145     150     155
Thr Thr Ile Ala Arg Val Ala Gln Ala Gly Ala Ile Pro Thr Asp Thr
      165     170     175
Phe Ala Ile Val Ala Glu Leu Met Arg Thr Trp Asn Arg Glu Glu Gly
      180     185     190
Ser Arg Phe Ala Glu Ile Leu Ala Glu His Val Cys Pro Glu Tyr Lys
      195     200     205
Cys Leu Ile Glu Ser Phe Gly Lys Ala Gln Glu Ile Ala Arg Thr Gly
      210     215     220
Pro Glu Thr Asn Leu Glu His Tyr Lys
      225     230

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<210> 9205

<211> 152

<212> PRT

<213> *Enterobacter cloacae*

<400> 9205

```

Glu Ser Asn Met Asp Met Val Phe Arg Ala Leu Ala Ile Tyr Leu Phe
1      5      10      15
Leu Val Ile Val Phe Lys Val Ala Gly Arg Arg Ala Leu Leu Gln Met
      20      25      30
Thr Ser Phe Asp Leu Ile Leu Leu Leu Ile Ile Ser Glu Ala Thr Gln
      35      40      45
Gln Ala Leu Leu Gly Glu Asp Phe Ser Ile Thr Gly Ala Met Ile Thr
      50      55      60
Ile Thr Thr Leu Val Val Val Asp Ile Ile Phe Gly Leu Leu Lys Lys
      65      70      75
Tyr Phe Ser Thr Val Glu Asn Ile Leu Asp Gly Thr Pro Val Ile Leu
      85      90      95
Val Glu Asn Gly Val Pro Leu Ala Asp Lys Leu Lys Lys Val Asp Val
      100     105     110
Ser Cys Asp Asp Ile Leu Val Ser Ala Arg Gln Asn His Gly Ile Thr
      115     120     125
Glu Leu Lys Glu Ile Lys Tyr Ala Ile Leu Glu Arg Asn Gly His Ile
      130     135     140
Ser Ile Ile Pro Asp Glu Asn
      145     150

```


<210> 9206

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 9206

Gly Thr Met Glu Ile Leu Glu Gly His Asn Lys Phe Tyr Val Asn Asp
 1 5 10 15
 Ala Glu Gly Asn Gln Val Ala Glu Ile Val Phe Val Pro Thr Gly Glu
 20 25 30
 His Leu Ser Ile Ile Glu His Thr Asp Val Asp Pro Ser Leu Lys Gly
 35 40 45
 Gln Gly Val Gly Lys Gln Leu Val Ala Lys Val Val Glu Lys Met Arg
 50 55 60
 Gly Glu Asn Arg Lys Ile Ile Pro Leu Cys Pro Phe Ala Lys His Glu
 65 70 75 80
 Phe Asp Asn Thr Arg Glu Tyr Asp Asp Ile Arg Ala
 85 90

<210> 9207

<211> 986

<212> PRT

<213> Enterobacter cloacae

<400> 9207

Ser Leu Gly Cys Ala Ala Ser Gly Gly Leu Arg Glu Gly Arg Gly Arg
 1 5 10 15
 Asn His Ile His Cys Thr Phe Gln Glu Pro Ser Leu Met Thr Gln Thr
 20 25 30
 Leu Ser Gln Leu Glu Asn Arg Gly Ala Phe Ile Glu Arg His Ile Gly
 35 40 45
 Pro Asp Ala Gln Gln Arg Gln Glu Met Leu Lys Thr Val Gly Ala Asp
 50 55 60
 Ser Leu Asn Ala Leu Ile Gly Gln Ile Val Pro Lys Asp Ile Gln Leu
 65 70 75 80
 Ala Thr Pro Pro Gln Val Gly Glu Ser Thr Thr Glu Phe Ala Ala Leu
 85 90 95
 Ala Glu Leu Lys Ala Ile Ala Gly Leu Asn Lys Arg Tyr Lys Ser Tyr
 100 105 110
 Ile Gly Met Gly Tyr Thr Asn Val Gln Leu Pro Pro Val Ile Leu Arg
 115 120 125
 Asn Met Leu Glu Asn Pro Gly Trp Tyr Thr Ala Tyr Thr Pro Tyr Gln
 130 135 140
 Pro Glu Val Ser Gln Gly Arg Leu Glu Ala Leu Leu Asn Phe Gln Gln
 145 150 155 160
 Val Thr Leu Asp Leu Thr Gly Met Asp Ile Ala Ser Ala Ser Leu Leu
 165 170 175
 Asp Glu Ala Thr Ala Ala Ala Glu Ala Met Ala Met Ala Lys Arg Val
 180 185 190
 Ser Lys Leu Lys Asn Ala Asn Arg Phe Phe Val Ala Ala Asp Val His
 195 200 205
 Pro Gln Thr Leu Asp Val Val Arg Thr Arg Ala Glu Thr Phe Gly Phe
 210 215 220
 Glu Val Ile Val Asp Asp Ala Glu Lys Val Leu Asp His Gln Asp Val
 225 230 235 240
 Phe Gly Val Leu Leu Gln Gln Val Gly Thr Thr Gly Glu Val His Asp
 245 250 255
 Tyr Gly Ala Leu Ile Ala Glu Leu Lys Ser Arg Lys Ile Ile Val Ser
 260 265 270
 Val Ala Ala Asp Phe Met Ala Leu Val Leu Leu Thr Ala Pro Gly Lys
 275 280 285

Gln Gly Ala Asp Ile Val Phe Gly Ser Ala Gln Arg Phe Gly Val Pro
 290 295 300
 Met Gly Tyr Gly Gly Pro His Ala Ala Phe Phe Gly Ala Lys Asp Glu
 305 310 315 320
 Phe Lys Arg Ser Met Pro Gly Arg Ile Ile Gly Val Ser Lys Asp Ala
 325 330 335
 Ala Gly Asn Thr Ala Leu Arg Met Ala Met Gln Thr Arg Glu Gln His
 340 345 350
 Ile Arg Arg Glu Lys Ala Asn Ser Asn Ile Cys Thr Ser Gln Val Leu
 355 360 365
 Leu Ala Asn Ile Ala Ser Leu Tyr Ala Val Phe His Gly Pro Ala Gly
 370 375 380
 Leu Lys Arg Ile Ala Ser Arg Ile His Arg Leu Ala Asp Ile Leu Ala
 385 390 395 400
 Cys Gly Leu Gln Gln Lys Gly Leu Arg Leu Arg His Glu His Tyr Phe
 405 410 415
 Asp Thr Leu Cys Val Glu Val Ala Asp Lys Ala Ala Val Leu Ala Arg
 420 425 430
 Ala Glu Ala Ala Gln Ile Asn Leu Arg Ser Asp Ile His Asn Ala Val
 435 440 445
 Gly Ile Thr Leu Asp Glu Ser Thr Thr Arg Asp Asp Ile Leu Thr Leu
 450 455 460
 Phe Asn Val Leu Leu Gly Asp Ala His Gly Leu Asp Val Asp Thr Leu
 465 470 475 480
 Asp Lys Glu Val Ala Leu Asp Ser Arg Ser Ile Gln Glu Ser Met Leu
 485 490 495
 Arg Asp Asp Ala Ile Leu Thr His Pro Val Phe Asn Arg Tyr His Ser
 500 505 510
 Glu Thr Glu Met Met Arg Tyr Met His Ser Leu Glu Arg Lys Asp Leu
 515 520 525
 Ala Leu Asn Gln Ala Met Ile Pro Leu Gly Ser Cys Thr Met Lys Leu
 530 535 540
 Asn Ala Ala Ala Glu Met Ile Pro Ile Thr Trp Pro Glu Phe Ser Glu
 545 550 555 560
 Leu His Pro Phe Cys Pro Ala Glu Gln Ala Glu Gly Tyr His Met Met
 565 570 575
 Ile Asn Gln Leu Ser Asp Trp Leu Val Lys Leu Thr Gly Tyr Asp Ala
 580 585 590
 Leu Cys Met Gln Pro Asn Ser Gly Ala Gln Gly Glu Tyr Ala Gly Leu
 595 600 605
 Leu Ala Ile Arg His Tyr His Glu Ser Arg Asn Glu Gly His Arg Asp
 610 615 620
 Ile Cys Leu Ile Pro Ser Ser Ala His Gly Thr Asn Pro Ala Ser Ala
 625 630 635 640
 Gln Met Ala Gly Met Glu Val Val Val Val Ala Cys Asp Lys Asn Gly
 645 650 655
 Asn Ile Asp Leu Ala Asp Leu Arg Ala Lys Ala Glu Gln Ala Gly Asp
 660 665 670
 Lys Leu Ser Cys Ile Met Val Thr Tyr Pro Ser Thr His Gly Val Tyr
 675 680 685
 Glu Glu Thr Ile Arg Glu Val Cys Glu Val Val His Gln Phe Gly Gly
 690 695 700
 Gln Val Tyr Leu Asp Gly Ala Asn Met Asn Ala Gln Val Gly Ile Thr
 705 710 715 720
 Ser Pro Gly Phe Ile Gly Ala Asp Val Ser His Leu Asn Leu His Lys
 725 730 735
 Thr Phe Cys Ile Pro His Gly Gly Gly Pro Gly Met Gly Pro Ile
 740 745 750
 Gly Val Lys Ala His Leu Ala Pro Phe Val Pro Gly His Ser Val Val
 755 760 765
 Gln Ile Glu Gly Met Leu Thr Arg Gln Gly Ala Val Ser Ala Ala Pro

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      770              775              780
Phe Gly Ser Ala Ser Ile Leu Pro Ile Ser Trp Met Tyr Ile Arg Met
785              790              795              800
Met Gly Ala Glu Gly Leu Lys Gln Ala Ser Gln Val Ala Ile Leu Asn
      805              810              815
Ala Asn Tyr Ile Ala Thr Arg Leu Lys Asp Ala Tyr Pro Val Leu Tyr
      820              825              830
Thr Gly Arg Asp Gly Arg Val Ala His Glu Cys Ile Leu Asp Ile Arg
      835              840              845
Pro Leu Lys Glu Glu Thr Gly Ile Ser Glu Leu Asp Ile Ala Lys Arg
      850              855              860
Leu Ile Asp Tyr Gly Phe His Ala Pro Thr Met Ser Phe Pro Val Ala
      865              870              875              880
Gly Thr Leu Met Val Glu Pro Thr Glu Ser Glu Ser Lys Val Glu Leu
      885              890              895
Asp Arg Phe Ile Asp Ala Met Leu Ala Ile Arg Ser Glu Ile Asp Arg
      900              905              910
Val Lys Gly Gly Glu Trp Thr Leu Glu Asp Asn Pro Leu Val Asn Ala
      915              920              925
Pro His Thr Gln Asn Glu Leu Val Ala Glu Trp Asn His Gly Tyr Thr
      930              935              940
Arg Glu Leu Ala Val Phe Pro Ala Gly Val Ala Asn Lys Tyr Trp Pro
      945              950              955              960
Thr Val Lys Arg Leu Asp Asp Val Tyr Gly Asp Arg Asn Leu Phe Cys
      965              970              975
Ser Cys Val Pro Met Ser Glu Tyr Gln
      980              985

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<210> 9208

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 9208

```

Phe Lys His Gly Ile Arg Asn Val Val Leu Trp Gln Ser Asp Leu Arg
1              5              10              15
Val Ser Trp Arg Ser Gln Trp Met Ser Leu Leu Leu His Gly Leu Val
      20              25              30
Ala Ala Met Val Leu Leu Val Pro Trp Pro Leu Ser Tyr Thr Pro Leu
      35              40              45
Trp Leu Leu Leu Leu Ser Phe Val Val Phe Asp Ser Val Arg Ser Gln
      50              55              60
Arg Arg Ile Asn Ala Arg Gln Gly Glu Ile Lys Leu Leu Met Asp Ser
      65              70              75              80
Arg Leu Arg Trp Gln Gly Lys Glu Trp Glu Met Met Gly Thr Pro Trp
      85              90              95
Met Leu Asn Thr Gly Met Met Leu Arg Leu Arg Arg Val Glu Asp Asn
      100              105              110
Arg Arg Gln His Leu Trp Leu Ala Ala Asp Ser Met Asp Pro Ala Glu
      115              120              125
Trp Arg Asp Leu Arg Arg Leu Ile Val Gln Gln Pro Thr Gln Glu
      130              135              140

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<210> 9209

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 9209

```

Trp Pro Asp Cys Arg Thr Lys Gly Ala Asp Val Glu Lys Asp Leu Ala
1              5              10              15

```

Leu Ile Glu Gln Phe Leu Asp Ala Leu Trp Leu Glu Lys Asn Leu Ala
 20 25 30
 Glu Asn Thr Leu Ser Ala Tyr Arg Arg Asp Leu Thr Leu Leu Val Glu
 35 40 45
 Trp Leu Ala His Arg Gly Leu Thr Leu Glu Ser Ala Gln Ser Asp Asp
 50 55 60
 Leu Gln Gly Leu Leu Ala Glu Arg Met Glu Gly Gly Tyr Lys Ala Thr
 65 70 75 80
 Ser Ser Ala Arg Leu Leu Ser Ala Met Arg Arg Leu Phe Gln His Leu
 85 90 95
 Tyr Arg Glu Lys Ile Arg Ala Asp Asp Pro Ser Ala Leu Leu Ala Ser
 100 105 110
 Pro Lys Leu Pro Gln Arg Leu Pro Lys Asp Leu Ser Glu Ala Gln Val
 115 120 125
 Glu Arg Leu Leu Gln Ser Pro Ala Val Asp Leu Pro Leu Glu Leu Arg
 130 135 140
 Asp Lys Ala Met Leu Glu Leu Leu Tyr Ala Thr Gly Leu Arg Val Ser
 145 150 155 160
 Glu Leu Val Gly Leu Thr Met Ser Asp Ile Ser Leu Arg Gln Gly Val
 165 170 175
 Val Arg Val Ile Gly Lys Gly Asn Lys Glu Arg Leu Val Pro Leu Gly
 180 185 190
 Glu Glu Ala Val Tyr Trp Leu Glu Thr Tyr Leu Glu His Gly Arg Pro
 195 200 205
 Trp Leu Leu Asn Gly Val Ser Ile Asp Val Leu Phe Pro Ser Gln Arg
 210 215 220
 Ala Gln Gln Met Thr Arg Gln Thr Phe Trp His Arg Ile Lys His Tyr
 225 230 235 240
 Ala Thr Leu Ala Gly Ile Asp Ser Glu Lys Leu Ser Pro His Val Leu
 245 250 255
 Arg His Ala Phe Ala Thr His Leu Leu Asn His Gly Ala Asp Leu Arg
 260 265 270
 Val Val Gln Met Leu Leu Gly His Ser Asp Leu Ser Thr Thr Gln Ile
 275 280 285
 Tyr Thr His Val Ala Thr Glu Arg Leu Arg Gln Leu His Gln Gln His
 290 295 300
 His Pro Arg Ala
 305

<210> 9210

<211> 581

<212> PRT

<213> Enterobacter cloacae

<400> 9210

Ile Ile Arg Val Lys Ala Pro Ile Lys Leu Arg Arg Arg Asp Ala Gly
 1 5 10 15
 Glu Thr Ala Asp Leu Pro Asp Thr Leu Pro Leu Leu Leu Lys Arg Leu
 20 25 30
 Tyr Ala Ser Arg Gly Val Arg Thr Ala Ser Asp Leu Glu Arg Ser Val
 35 40 45
 Lys Gly Met Leu Pro Trp Gln Ala Leu Ser Gly Ile Glu Gln Ala Ser
 50 55 60
 Glu Met Leu Tyr Asp Ala Phe Arg Glu Gly Thr Arg Ile Val Val Val
 65 70 75 80
 Gly Asp Phe Asp Ala Asp Gly Ala Thr Ser Thr Ala Leu Ser Val Leu
 85 90 95
 Ser Leu Arg Ala Leu Gly Cys Asp Asn Val Thr Tyr Leu Val Pro Asn
 100 105 110
 Arg Phe Glu Asp Gly Tyr Gly Leu Ser Pro Glu Val Val Asp Gln Ala
 115 120 125

His Ala Arg Gly Ala Gln Met Ile Met Thr Val Asp Asn Gly Ile Ser
 130 135 140
 Ser His Ala Gly Val Asp His Ala His Ala Leu Gly Ile Pro Val Leu
 145 150 155 160
 Val Thr Asp His His Leu Pro Gly Glu Thr Leu Pro Ala Ala Glu Ala
 165 170 175
 Ile Ile Asn Pro Asn Leu Arg Asp Cys Asp Phe Pro Ser Lys Ser Leu
 180 185 190
 Ala Gly Val Gly Val Ala Phe Tyr Leu Met Leu Ala Leu Arg Thr Leu
 195 200 205
 Leu Arg Asp Lys Gly Trp Phe Glu Ser Arg Gly Ile Ala Val Pro Asn
 210 215 220
 Leu Ala Glu Tyr Leu Asp Leu Val Ala Leu Gly Thr Val Ala Asp Val
 225 230 235 240
 Val Pro Leu Asp Thr Asn Asn Arg Ile Leu Thr Trp Gln Gly Leu Ser
 245 250 255
 Arg Ile Arg Ala Gly Lys Cys Arg Pro Gly Ile Lys Ala Leu Leu Glu
 260 265 270
 Ile Ala Asn Arg Asp Pro Leu Lys Leu Ala Ala Ser Asp Leu Gly Phe
 275 280 285
 Ala Leu Gly Pro Arg Leu Asn Ala Ala Gly Arg Leu Asp Asp Met Ser
 290 295 300
 Val Gly Val Ala Leu Leu Leu Cys Asp Asn Ile Gly Glu Ala Arg Val
 305 310 315 320
 Leu Ala Ser Glu Leu Asp Ala Leu Asn Gln Thr Arg Lys Glu Ile Glu
 325 330 335
 Gln Gly Met Gln Ala Glu Ala Leu Thr Leu Cys Glu Lys Leu Glu Arg
 340 345 350
 Ser Gly Asp Thr Leu Pro Gly Gly Leu Ala Met Tyr His Pro Glu Trp
 355 360 365
 His Gln Gly Val Val Gly Ile Leu Ala Ser Arg Ile Lys Glu Arg Phe
 370 375 380
 His Arg Pro Val Ile Ala Phe Ala Pro Ala Gly Asp Gly Thr Leu Lys
 385 390 395 400
 Gly Ser Gly Arg Ser Ile Gln Gly Leu His Met Arg Asp Ala Leu Glu
 405 410 415
 Arg Leu Asp Thr Leu His Pro Asn Leu Met Ile Lys Phe Gly Gly His
 420 425 430
 Ala Met Ala Ala Gly Leu Ser Leu Glu Glu Ala Lys Phe Asp Glu Phe
 435 440 445
 Gln Arg Leu Phe Gly Glu Leu Val Thr Glu Trp Ile Asp Pro Ala Leu
 450 455 460
 Leu Gln Gly Glu Val Val Ser Asp Gly Glu Leu Ser Pro Ala Glu Met
 465 470 475 480
 Thr Met Glu Val Ala Gln Met Leu Arg Asp Ala Gly Pro Trp Gly Gln
 485 490 495
 Met Phe Pro Glu Pro Leu Phe Asp Gly Arg Phe Arg Leu Leu Gln Gln
 500 505 510
 Arg Ile Val Gly Glu Arg His Leu Lys Val Met Val Glu Ser Val Gly
 515 520 525
 Gly Gly Pro Leu Leu Asp Gly Ile Ala Phe Asn Val Asp Thr Ser Ile
 530 535 540
 Trp Pro Asp Asn Gly Val Arg Glu Val Glu Leu Ala Tyr Lys Leu Asp
 545 550 555 560
 Ile Asn Glu Phe Arg Gly Asn Arg Ser Leu Gln Ile Ile Asp Asn
 565 570 575
 Ile Arg Pro Ile
 580

<210> 9211

<211> 420

<212> PRT

<213> *Enterobacter cloacae*

<400> 9211

Phe Lys Ile Lys Pro Ser Phe Phe Leu Arg Asn Gln Ser Pro Leu Leu
 1 5 10 15
 Tyr Leu Ser Ala Asn Phe Leu Phe Pro Gly Pro Gln Met Lys Thr Arg
 20 25 30
 Leu Leu Leu Cys Ala Gly Val Leu Ala Val Ser Ser Ala His Ala Ser
 35 40 45
 Ala Leu Tyr Phe Tyr Glu Ala Gly Thr Glu Asp Thr Ala Leu Ala Gly
 50 55 60
 Ala Gly Gln Ala Ala Arg Ala Lys Asp Ala Ser Thr Ile Met Thr Asn
 65 70 75 80
 Pro Ala Gly Met Thr Arg Leu Pro Asp His Met Val Thr Gly Gly Leu
 85 90 95
 Gln Val Met Asp Gly Ser Ile Asp Asn Gln Leu Asp Asn Asp Ala His
 100 105 110
 Gln Ser Pro Gly Asp Val Met Lys Thr Ile Pro Asn Ala Ser Ala Phe
 115 120 125
 Tyr Ser Gln Lys Ile Asn Asp Asp Leu Tyr Ala Gly Ile Gly Leu Tyr
 130 135 140
 Gly Asn Tyr Gly Leu Gly Ile Asp Tyr Gly Ser Trp Ala Gly Asp Arg
 145 150 155 160
 Leu Ile Lys Lys Ser Thr Met Val Ala Met Thr Leu Ser Pro Ser Leu
 165 170 175
 Ala Tyr Lys Leu Asn Asp Arg Leu Ser Ile Gly Ala Ser Ala Asn Val
 180 185 190
 Asn Tyr Gly Tyr Phe Ser Leu Thr Arg Ser Val Asn Asp Asp Tyr
 195 200 205
 Gln Arg Arg Asp Glu Asp Leu Ala Met Ser Tyr Arg Leu Gly Leu Leu
 210 215 220
 Met Gln Leu Thr Asp Gln Thr Arg Ala Gly Ile Thr Trp Asn Ser Glu
 225 230 235 240
 Thr Asp Tyr Ser Phe Asn Ile Asp Gly Asn Ala Arg Leu Gln Asn Gly
 245 250 255
 Thr Tyr Asp Leu Pro Leu Ser Ala Gln Ile Ser Ala Pro Gln Gln Ile
 260 265 270
 Met Leu Ser Leu Val His Asp Ile Asn Pro Arg Trp Ser Val Met Gly
 275 280 285
 Asp Leu Gly Trp Gln Asp Trp Ser Gln Phe Gly Ala Pro Gln Ile Val
 290 295 300
 Val Gly Asp Gln Gln Leu Asn Asn Val Ser Arg Leu Lys Asp Thr Trp
 305 310 315 320
 His Gly Ala Val Gly Val Gln Tyr Arg Pro Thr Pro Gln Trp Arg Leu
 325 330 335
 Asn Ala Gly Val Ala Phe Asp Ser Ser Pro Tyr Glu Ser Gln Ser Asp
 340 345 350
 Val Ala Leu Thr Leu Pro Thr Gly Asp Glu Trp Arg Phe Gly Thr Gly
 355 360 365
 Ala Gln Tyr Gln Ile Thr Pro Ala Ser Asn Ile Gly Ile Ala Val Ser
 370 375 380
 Tyr Leu His Met Gln Ser Ser His Val Lys Ser Pro Val Ala Phe Ala
 385 390 395 400
 Gly Ser Tyr Asp His Pro Tyr Leu Trp Phe Ala Ser Val Asn Tyr Ser
 405 410 415
 Tyr Gln Phe

420

<210> 9212

<211> 216

<212> PRT

<213> *Enterobacter cloacae*

<400> 9212

```

Met Ser Glu Gly Cys Thr Met His Ile Leu Pro Pro Val Arg Pro Glu
1      5      10      15
Lys Ser Ile Glu Arg Leu Thr Ala Ile Leu Glu Pro Ile Ala Glu Lys
      20      25      30
Val His Val Val Pro Arg Lys Arg Leu Thr Trp Leu Arg Lys Gly Lys
      35      40      45
Gln Gln Met Tyr Leu Phe Leu Glu Gly Glu Leu Ser Leu Leu Arg Ala
50      55      60
Ser Asp Gly Leu Val Val Thr Val Tyr Glu Pro His Leu Phe Gly
65      70      75      80
Ile Ala Glu Met Ile Gln Pro Thr Gln Gly His Leu Leu Arg Ala Glu
      85      90      95
Arg Glu Ser Thr Ile Leu Arg Leu Asp Ala Asp Lys Ala Ala Glu Leu
100      105      110
Phe Arg Ala Glu Gly Val Trp Glu Asp Val Ala Ala Leu Leu Ser Tyr
115      120      125
His Thr Ala Tyr Leu Ile Phe Arg Asp Ala Gln Val Leu Gln Gln Arg
130      135      140
Thr Tyr Ser Val Ile Arg Asn His Leu Gln Glu Met Ile Leu Leu Pro
145      150      155      160
Glu Glu Thr Arg Leu Arg Thr Thr Ile Leu Glu Tyr Ile Gln Asp Arg
      165      170      175
Thr Leu Leu Ser Arg Ser Ser Ile Leu Asn Val Leu Ser Ala Leu Lys
180      185      190
Gln Gly Glu Tyr Ile Ser Phe Lys Arg Gly Gly Tyr Leu Leu Glu Val
195      200      205
Arg His Leu Pro Glu Ser Phe
210      215

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<210> 9213

<211> 678

<212> PRT

<213> *Enterobacter cloacae*

<400> 9213

```

Pro Pro Phe Pro Pro Cys Thr Ala Ser Val Asn Ile Thr Pro Arg Gly
1      5      10      15
Ser Met Lys Phe Lys Thr Leu Val Ser Ala Met Ala Val Ala Gly Leu
20      25      30
Leu Leu Val Ser Leu Thr Ser Leu Pro Val Leu Ala Gln Lys Glu Gly
35      40      45
Lys Gly Ala Thr Ala His Thr Lys Glu Met Asn Asp Ala Leu Tyr Gly
50      55      60
Gln Leu Pro Phe Phe Asp Lys Thr Asp Phe Arg Asn Ala His Lys Gly
65      70      75      80
Phe Ile Ala Ser Leu Pro Pro Ala Val Ile Lys Asp Glu Lys Gly Ala
85      90      95
Val Ile Trp Asn Pro Gln Lys Tyr Ala Phe Ile Lys Glu Gly Gln Lys
100      105      110
Ala Pro Asp Thr Val Asn Pro Ser Leu Trp Arg Gln Ala Gln Leu Asn
115      120      125
Asn Ile Gly Gly Leu Phe Glu Val Thr Glu Gly Ile Tyr Gln Ile Arg
130      135      140
Asn Leu Asp Leu Ser Asn Met Thr Ile Ile Glu Gly Lys Glu Gly Ile
145      150      155      160
Thr Val Ile Asp Pro Leu Leu Ser Ala Glu Thr Ala Lys Ala Gly Met
165      170      175

```

Asp Leu Tyr Val Gln His Arg Gly Lys Arg Pro Val Val Ala Val Ile
 180 185 190
 Tyr Thr His Ser His Val Asp His Tyr Gly Gly Val Arg Gly Val Val
 195 200 205
 Asp Glu Ala Gly Val Met Thr Gly Lys Val Lys Val Tyr Ala Pro Ala
 210 215 220
 Gly Phe Met Glu Glu Ala Val Ser Glu Asn Ile Met Ala Gly Asn Ala
 225 230 235 240
 Ile Ser Arg Arg Ala Ser Tyr Ile Tyr Gly Asn Leu Leu Lys Ala Asn
 245 250 255
 Val Lys Gly Gln Ile Gly Ala Gly Leu Gly Thr Thr Thr Ser Ala Gly
 260 265 270
 Thr Val Thr Leu Ile Ala Pro Thr His Ala Ile Thr Lys Asp Gly Gln
 275 280 285
 Lys Glu Ile Ile Asp Gly Leu Thr Tyr Asp Phe Met Leu Ala Pro Gly
 290 295 300
 Ser Glu Ala Pro Ser Glu Met Leu Trp Tyr Val Glu Glu Lys Lys Leu
 305 310 315 320
 Ile Gln Ala Ala Glu Asn Val Thr His Thr Leu His Asn Thr Tyr Ser
 325 330 335
 Leu Arg Arg Ala Lys Ile His Asp Pro Leu Ala Trp Ser Lys Tyr Ile
 340 345 350
 Asn Asn Ala Leu Asp Arg Trp Gly Asp Lys Ala Glu Ile Ile Ile Ala
 355 360 365
 Gln His His Trp Pro Thr Trp Gly Asn Lys Lys Val Val Lys Leu Met
 370 375 380
 Lys Ser Gln Arg Asp Ile Tyr Arg Tyr Ile Asn Asp Gln Thr Leu Arg
 385 390 395 400
 Leu Ala Asn Lys Gly Leu Thr Arg Asp Glu Ile Ala Ala Asn Phe Ala
 405 410 415
 Leu Pro Tyr Gly Leu Ala Lys Ser Trp Ala Gly Arg Gly Tyr Tyr Gly
 420 425 430
 Ser Val Ser Asn Asn Val Lys Ala Thr Tyr Val Tyr Tyr Leu Gly Trp
 435 440 445
 Phe Asp Gly Asn Pro Ala Thr Leu Asp Glu Leu Pro Pro Val Glu Ala
 450 455 460
 Ala Lys Lys Tyr Val Asp Tyr Met Gly Gly Ala Arg Ala Ile Leu Glu
 465 470 475 480
 Lys Ala Arg Val Asp Tyr Ala Arg Gly Asn Tyr Arg Trp Val Ala Gln
 485 490 495
 Val Val Ser Lys Val Val Phe Ala Asp Pro Asn Asn Lys Ala Ala Arg
 500 505 510
 Glu Leu Glu Ala Asp Ala Phe Glu Gln Leu Gly Tyr His Ala Glu Ser
 515 520 525
 Gly Pro Trp Arg Asn Ala Tyr Leu Thr Gly Ala Gln Glu Leu Arg Asn
 530 535 540
 Gly Val Lys Ile Lys Pro Thr Pro Lys Thr Ala Ser Pro Asp Ala Val
 545 550 555 560
 Arg Ala Met Ser Thr Glu Met Ile Phe Asp Tyr Phe Gly Val His Leu
 565 570 575
 Asn Gly Val Arg Ala Ala Asn Ala Arg Gly Ile Phe Asn Val Asp Leu
 580 585 590
 Gly Arg Glu Gly Gly Arg Tyr Lys Leu Glu Leu Glu Asn Gly Val Leu
 595 600 605
 Asn His Ser Ala Asn Ile Gln Ala Glu Asp Pro Asp Ala Thr Ile Thr
 610 615 620
 Leu Ser Arg Glu Thr Leu Asn Lys Ile Ile Leu Lys Glu Thr Thr Leu
 625 630 635 640
 Lys Lys Ala Gln Gln Ala Gly Glu Val Thr Ile Val Gly Asn Ala Ala
 645 650 655
 Lys Val Asp Glu Met Leu Arg Cys Met Glu Ser Phe Ser Phe Trp Phe

660
Pro Val Val Thr Pro
675

665

670

<210> 9214
<211> 195
<212> PRT
<213> Enterobacter cloacae

<400> 9214
Asn Thr Leu Phe Leu Ser Val Met Val Ile Phe Leu Leu Phe Leu Thr
1 5 10 15
Lys Ile Lys Gly Asn Ala Met Ser Asn Leu Ile His Asp Ser Asn Ser
20 25 30
Thr Ile Ser Glu Leu Thr Lys Lys Leu Ala Thr Gln Leu Thr Asp Arg
35 40 45
Gly Leu Arg Leu Thr Thr Ala Glu Ser Cys Thr Gly Gly Asn Leu Ala
50 55 60
Val Ala Leu Cys Ala Glu Glu Asn Thr Ala Glu Phe Tyr Asp Val Gly
65 70 75 80
Met Val Val Phe Ser Asp Ala Ala Lys Glu Arg Ile Leu Gly Val Arg
85 90 95
His Glu Thr Ile Glu Arg Phe Thr Ala Val Ser Glu Gln Thr Val Thr
100 105 110
Glu Met Ala Ala Lys Ile Arg Glu Ile Ala Glu Ala Asp Ile Gly Leu
115 120 125
Ala Ile Ser Gly Tyr Ala Gly Pro Glu Gly Gly Asp Asp Gly Thr Ala
130 135 140
Ala Gly Thr Val Cys Phe Gly Trp Asn Ile Arg Gly Gln Thr Glu Thr
145 150 155 160
Arg Thr Val Leu Phe Ser Gly Glu Cys Gln Asp Val Val Asp Lys Ala
165 170 175
Val Arg Tyr Ser Leu Ser Glu Leu Ile Glu Ile Leu Ser Gly Trp Asp
180 185 190
Asn Val
195

<210> 9215
<211> 364
<212> PRT
<213> Enterobacter cloacae

<400> 9215
Pro Pro Leu Thr His Arg Ala Arg Leu Leu His Ile Ser Glu Ala Lys
1 5 10 15
Leu Pro Cys Ser Phe Phe Thr Ala Thr Asn Ser Leu Gln Ser Ser Pro
20 25 30
Leu Pro Ala Asn Asn Asn Gly Asp Leu Met Gly Thr Thr Lys His Ser
35 40 45
Lys Leu Leu Ile Leu Gly Ser Gly Pro Ala Gly Tyr Thr Ala Ala Val
50 55 60
Tyr Ala Ala Arg Ala Asn Leu Gln Pro Val Leu Ile Thr Gly Met Glu
65 70 75 80
Lys Gly Gly Gln Leu Thr Thr Thr Thr Glu Val Glu Asn Trp Pro Gly
85 90 95
Asp Pro Asn Asp Leu Thr Gly Pro Leu Leu Met Glu Arg Met His Glu
100 105 110
His Ala Ala Lys Phe Glu Thr Glu Ile Leu Phe Asp His Ile Asn Lys
115 120 125
Val Asp Leu Gln Asn Arg Pro Phe Arg Leu Thr Gly Asp Ser Gly Glu
130 135 140

Tyr Thr Cys Asp Ala Leu Ile Ile Ala Thr Gly Ala Ser Ala Arg Tyr
 145 150 155 160
 Leu Gly Leu Pro Ser Glu Glu Ala Phe Lys Gly Arg Gly Val Ser Ala
 165 170 175
 Cys Ala Thr Cys Asp Gly Phe Phe Tyr Arg Asn Gln Lys Val Ala Val
 180 185 190
 Ile Gly Gly Gly Asn Thr Ala Val Glu Ala Leu Tyr Leu Ala Asn
 195 200 205
 Ile Ala Ser Glu Val His Leu Ile His Arg Arg Asp Thr Phe Arg Ala
 210 215 220
 Glu Lys Ile Leu Ile Lys Arg Leu Met Asp Lys Val Ala Ser Gly Asn
 225 230 235 240
 Ile Val Leu His Thr Asn Arg Thr Leu Glu Val Thr Gly Asp Gln
 245 250 255
 Met Gly Val Ala Gly Leu Arg Ile Arg Asp Thr Gln Asn Thr Asp Asn
 260 265 270
 Val Glu Thr Leu Glu Val Ala Gly Leu Phe Val Ala Ile Gly His Ser
 275 280 285
 Pro Asn Thr Ala Ile Phe Glu Gly Gln Leu Glu Leu Glu Asn Gly Tyr
 290 295 300
 Ile Lys Val Gln Ser Gly Ile His Gly Asn Ala Thr Gln Thr Ser Val
 305 310 315 320
 Pro Gly Val Phe Ala Ala Gly Asp Val Met Asp His Ile Tyr Arg Gln
 325 330 335
 Ala Ile Thr Ser Ala Gly Thr Gly Cys Val Ala Ala Leu Asp Ala Glu
 340 345 350
 Arg Tyr Leu Asp Gly Leu Ala Glu Gln Gly Lys
 355 360

<210> 9216

<211> 599

<212> PRT

<213> *Enterobacter cloacae*

<400> 9216

Phe Leu Ile Thr Ser Pro Ala Lys Tyr Ala Met Glu Lys Thr Arg Gln
 1 5 10 15
 Gln Glu Leu Thr Arg Trp Leu Lys Gln Gln Ser Val Leu Ser Arg Arg
 20 25 30
 Trp Leu Met Ile Ser Arg Val Leu Gly Phe Ile Ser Gly Leu Leu Ile
 35 40 45
 Val Ala Gln Ala Trp Leu Leu Ala Arg Ile Leu Asn His Met Ile Met
 50 55 60
 Glu Asn Ile Pro Arg Glu Ala Leu Leu Leu Pro Phe Ile Val Leu Val
 65 70 75 80
 Leu Val Phe Val Leu Arg Ala Trp Val Val Trp Leu Arg Glu Arg Val
 85 90 95
 Gly Phe His Ala Gly Gln His Ile Arg Tyr Glu Ile Arg Arg Lys Val
 100 105 110
 Leu Asp Arg Leu Ser Glu Ala Gly Pro Ala Trp Ile Gln Gly Lys Pro
 115 120 125
 Ala Gly Ser Trp Ala Thr Leu Ile Leu Glu Gln Ile Asp Asp Met His
 130 135 140
 Asp Tyr Tyr Ala Arg Tyr Leu Pro Gln Met Ala Leu Ala Val Phe Val
 145 150 155 160
 Pro Leu Met Ile Val Ile Ala Ile Phe Pro Val Asn Trp Val Ala Ala
 165 170 175
 Leu Ile Leu Leu Gly Thr Ala Pro Leu Ile Pro Leu Phe Met Ala Met
 180 185 190
 Val Gly Met Gly Ala Ala Asp Ala Asn Arg Arg Asn Phe Leu Ala Leu
 195 200 205

Gly Arg Leu Ser Gly His Phe Leu Asp Arg Leu Arg Gly Met Glu Thr
 210 215 220
 Leu Arg Ile Phe Gly Arg Gly Glu Ala Glu Thr Glu Asn Ile Arg Leu
 225 230 235 240
 Ala Ser Gln Asp Phe Arg Gln Arg Thr Met Glu Val Leu Arg Met Ala
 245 250 255
 Phe Leu Ser Ser Gly Val Leu Glu Phe Phe Thr Ser Leu Ser Ile Ala
 260 265 270
 Leu Val Ala Val Tyr Phe Gly Phe Ser Tyr Leu Gly Ala Leu Asp Phe
 275 280 285
 Gly His Tyr Gly Thr Ala Val Thr Leu Ser Ala Gly Phe Leu Ala Leu
 290 295 300
 Ile Leu Ala Pro Glu Phe Phe Gln Pro Leu Arg Asp Leu Gly Thr Phe
 305 310 315 320
 Tyr His Ala Lys Ala Gln Ala Val Gly Ala Ala Asp Ser Leu Lys Thr
 325 330 335
 Phe Met Glu Thr Pro Leu Ala His Pro Glu Arg Gly Glu Val Thr Leu
 340 345 350
 Asn Thr Asn Asp Pro Val Thr Ile Glu Ala Gln Asp Phe Ser Val Leu
 355 360 365
 Ser Pro Glu Gly Lys Val Leu Ala Gly Pro Leu Asn Phe Thr Leu Pro
 370 375 380
 Ala Gly Gln Arg Val Val Leu Val Gly Thr Ser Gly Ser Gly Lys Ser
 385 390 395 400
 Ser Leu Leu Asn Ala Leu Ser Gly Phe Met Ala Tyr Thr Gly Ser Leu
 405 410 415
 Arg Ile Asn Lys Thr Glu Leu Arg Glu Leu Asp Pro Asp Ala Trp Arg
 420 425 430
 Lys Gln Leu Ser Trp Val Gly Gln Asn Pro Gln Leu Pro Ala Pro Thr
 435 440 445
 Leu Arg Glu Asn Val Leu Leu Ala Arg Pro Asp Ala Arg Asp Asp Glu
 450 455 460
 Leu Gln Ser Val Leu Asp Arg Ala Trp Val Ser Glu Phe Leu Pro Leu
 465 470 475 480
 Leu Ala Gln Gly Ile Asp Thr Val Ile Gly Asp Gln Ser Ala Gly Leu
 485 490 495
 Ser Val Gly Gln Ala Gln Arg Val Ala Val Ala Arg Ala Leu Leu Asn
 500 505 510
 Pro Ser Ser Leu Met Leu Leu Asp Glu Pro Ala Ala Ser Leu Asp Ala
 515 520 525
 His Ser Glu Gln Arg Val Met Asp Ala Leu Asn Ala Ala Ser Arg Gln
 530 535 540
 Gln Thr Thr Leu Met Val Thr His Gln Leu Glu Gly Ile Ala Asp Trp
 545 550 555 560
 Asp Gln Ile Trp Val Met Glu Asn Gly His Ile Val Glu Gln Gly Asp
 565 570 575
 Tyr Ala Ala Leu Val Ala Ala Gln Gly Pro Phe Ala Thr Leu Leu Ala
 580 585 590
 Asn Arg Gln Glu Asp Ile
 595

<210> 9217

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 9217

Ile Tyr Leu Ser Gly Glu Gly Met Leu Met Val Ser Lys Tyr Trp Leu
 1 5 10 15
 Phe Glu Ser Ser Leu Tyr Gly Asp Ile Thr Arg Ala Gln Glu Trp
 20 25 30

Ala Arg Thr Phe Ile Ile Glu Val Val Met Phe Arg Lys Leu Ala Ala
 35 40 45
 Glu Cys Phe Gly Thr Phe Trp Leu Val Phe Gly Gly Cys Gly Ser Ala
 50 55 60
 Val Leu Ala Ala Ala Phe Pro Glu Leu Gly Ile Gly Phe Val Gly Val
 65 70 75 80
 Ala Leu Ala Phe Gly Leu Thr Val Leu Trp Met Ala Phe Ala Val Gly
 85 90 95
 His Ile Ser Gly Gly His Phe Asn Pro Ala Val Thr Leu Gly Leu Trp
 100 105 110
 Ala Gly Gly Arg Phe Pro Ala Lys Asp Ile Ile Gly Tyr Ile Ile Ala
 115 120 125
 Gln Val Ile Gly Gly Ile Ile Ala Ala Ala Val Leu Tyr Val Ile Ala
 130 135 140
 Ser Gly Lys Ala Gly Phe Asp Ala Ala Ala Ser Gly Phe Ala Ser Asn
 145 150 155 160
 Gly Phe Gly Glu His Ser Pro Gly Gly Tyr Ser Met Leu Ser Ala Ile
 165 170 175
 Val Ile Glu Ile Val Leu Thr Ala Gly Phe Leu Leu Val Ile His Gly
 180 185 190
 Ala Thr Asp Lys Tyr Ala Pro Ala Gly Phe Ala Pro Ile Ala Ile Gly
 195 200 205
 Leu Ala Leu Thr Leu Ile His Leu Ile Ser Ile Pro Val Thr Asn Thr
 210 215 220
 Ser Val Asn Pro Ala Arg Ser Thr Ala Val Ala Ile Phe Gln Gly Gly
 225 230 235 240
 Trp Ala Leu Glu Gln Leu Trp Leu Phe Trp Val Met Pro Ile Ile Gly
 245 250 255
 Gly Ile Leu Gly Gly Val Leu Tyr Arg Thr Leu Leu Glu Lys Arg Asp
 260 265 270

<210> 9218

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 9218

Cys Leu Trp Arg Leu Thr Asp Thr Gln Lys Asp Arg Leu Phe Met Phe
 1 5 10 15
 Ser Gly Leu Leu Ile Ile Leu Leu Pro Leu Ile Ala Gly Tyr Leu Ile
 20 25 30
 Pro Leu Arg His Glu Ser Ala Leu Lys Leu Ile Asn Arg Phe Leu Ser
 35 40 45
 Trp Ile Val Tyr Val Ile Leu Phe Phe Met Gly Ile Ser Leu Ala Phe
 50 55 60
 Leu Asp Asn Leu Ala Thr Asn Leu Leu Ser Ile Leu His Tyr Ser Ala
 65 70 75 80
 Val Thr Val Val Val Ile Leu Leu Cys Asn Ile Ala Ala Leu Phe Trp
 85 90 95
 Leu Glu Arg Thr Ile Pro Trp Lys Asn His His His Gln Glu Lys Leu
 100 105 110
 Pro Ser Arg Ile Ala Met Ala Leu Glu Ser Leu Lys Leu Cys Gly Val
 115 120 125
 Val Val Leu Gly Phe Leu Leu Gly Leu Thr Gly Trp Ala Phe Leu Gln
 130 135 140
 His Ala Thr Glu Ala Ser Glu Tyr Thr Leu Ile Phe Leu Leu Phe Leu
 145 150 155 160
 Ile Gly Ile Gln Leu Arg Asn Asn Gly Met Thr Leu Lys Gln Ile Val
 165 170 175

Leu Asn Arg Arg Gly Met Met Val Ala Val Ile Val Val Ala Ser Ser
 180 185 190
 Leu Ala Gly Gly Val Ile Asn Ala Phe Ile Leu Asp Leu Pro Leu Lys
 195 200 205
 Thr Ser Leu Ala Met Ala Ser Gly Phe Gly Trp Tyr Ser Leu Ser Gly
 210 215 220
 Ile Leu Leu Thr Glu Ser Phe Gly Pro Val Ile Gly Ser Ala Ala Phe
 225 230 235 240
 Phe Asn Asp Leu Ala Arg Glu Leu Leu Ala Ile Met Leu Ile Pro Gly
 245 250 255
 Leu Val Ser Arg Ser Arg Ser Thr Ala Leu Gly Leu Cys Gly Ala Thr
 260 265 270
 Ser Met Asp Phe Thr Leu Pro Val Leu Gln Arg Ser Gly Gly Leu Glu
 275 280 285
 Met Val Pro Ala Ala Ile Val His Gly Phe Ile Leu Ser Leu Leu Val
 290 295 300
 Pro Ile Leu Met Ala Phe Phe Ser Ala
 305 310

<210> 9219

<211> 559

<212> PRT

<213> Enterobacter cloacae

<400> 9219

Asn Ile Thr Leu Thr Gly Val Ile Met Phe Cys Val Gln Cys Glu Gln
 1 5 10 15
 Thr Ile Arg Thr Pro Ala Gly Asn Gly Cys Ser Tyr Ala Gln Gly Met
 20 25 30
 Cys Gly Lys Thr Ala Glu Thr Ser Asp Leu Gln Asp Leu Leu Ile Ala
 35 40 45
 Ala Leu Gln Gly Leu Ser Ala Trp Ala Phe Lys Ala Arg Glu Tyr Gly
 50 55 60
 Ile Val Asp His Tyr Val Asp Ser Phe Ala Pro Arg Ala Phe Phe Ser
 65 70 75 80
 Thr Leu Thr Asn Val Asn Phe Asp Ser Pro Arg Ile Val Gly Tyr Ala
 85 90 95
 Arg Glu Ala Ile Ala Leu Arg Glu Ala Leu Lys Ala Gln Cys Leu Asn
 100 105 110
 Ala Asp Ala Ser Ala Arg Val Asp Asn Pro Met Ala Glu Leu Gln Leu
 115 120 125
 Val Ser Asp Asp Leu Gly Glu Leu Gln Arg Gln Ala Ala Glu Phe Thr
 130 135 140
 Pro Asn Lys Asp Lys Ala Ala Ile Gly Glu Asn Ile Leu Gly Leu Arg
 145 150 155 160
 Leu Leu Cys Leu Tyr Gly Leu Lys Gly Ala Ala Ala Tyr Met Glu His
 165 170 175
 Ala His Val Leu Gly Gln Tyr Asp Asn Ala Ile Tyr Ala Gln Tyr His
 180 185 190
 Lys Ile Met Ala Trp Leu Gly Thr Trp Pro Ser Asp Met Asn Ala Leu
 195 200 205
 Leu Glu Cys Ser Met Glu Ile Gly Gln Met Asn Phe Lys Val Met Ser
 210 215 220
 Ile Leu Asp Ala Gly Glu Thr Ser Thr Tyr Gly His Pro Thr Pro Thr
 225 230 235 240
 Gln Val Asn Val Lys Ala Thr Glu Gly Lys Cys Ile Leu Ile Ser Gly
 245 250 255
 His Asp Leu Lys Asp Leu Tyr Asn Leu Leu Lys Gln Thr Glu Gly Thr
 260 265 270
 Gly Val Asn Val Tyr Thr His Gly Glu Met Leu Pro Ala His Gly Tyr
 275 280 285

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Pro Glu Leu Arg Lys Phe Lys His Leu Ile Gly Asn Tyr Gly Ser Gly
290          295          300
Trp Gln Asn Gln Gln Val Glu Phe Ala Arg Phe Pro Gly Pro Ile Val
305          310          315          320
Met Thr Ser Asn Cys Ile Ile Asp Pro Thr Val Gly Ala Tyr Asp Asp
          325          330          335
Arg Ile Trp Thr Arg Ser Ile Val Gly Trp Pro Gly Val Ser His Leu
          340          345          350
Glu Gly Asp Asp Phe Gly Pro Val Ile Ala Gln Ala Gln Gln Met Ala
          355          360          365
Gly Phe Pro Tyr Ser Glu Ile Pro His Leu Ile Thr Val Gly Phe Gly
370          375          380
Arg Glu Thr Leu Leu Gly Ala Ala Asp Ser Leu Ile Asp Leu Val Ser
385          390          395          400
Arg Glu Lys Leu Arg His Ile Phe Leu Ile Gly Gly Cys Asp Gly Ala
          405          410          415
Arg Gly Glu Arg Asn Tyr Phe Thr Asp Phe Ala Thr Arg Val Pro Glu
          420          425          430
Asp Cys Leu Ile Leu Thr Leu Ala Cys Gly Lys Tyr Arg Phe Asn Lys
          435          440          445
Leu Asp Phe Gly Asn Ile Glu Gly Leu Pro Arg Leu Val Asp Ala Gly
450          455          460
Gln Cys Asn Asp Ala Tyr Ser Ala Ile Ile Leu Ala Val Thr Leu Ala
465          470          475          480
Glu Lys Leu Gly Cys Gly Val Asn Asp Leu Pro Leu Ser Leu Val Leu
          485          490          495
Ser Trp Phe Glu Gln Lys Ala Ile Val Ile Leu Leu Thr Leu Leu Ser
          500          505          510
Leu Gly Val Thr Asn Ile Val Thr Gly Pro Thr Ala Pro Gly Phe Leu
          515          520          525
Thr Pro Asp Leu Leu Ala Ile Leu Asn Glu Lys Phe Gly Leu Arg Ser
          530          535          540
Val Thr Asn Val Glu Asp Asp Met Lys Gln Leu Leu Ser Ala
545          550          555

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<210> 9220

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 9220

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Val Lys Thr Ala Pro Met Ser Ile Lys Leu Asn Gly Ile Asn Trp Phe
1          5          10          15
Tyr Gly Ala His Gln Ala Leu Phe Asp Ile Thr Leu Ser Cys Pro Glu
          20          25          30
Gly Glu Thr Leu Val Leu Leu Gly Pro Ser Gly Ala Gly Lys Ser Ser
          35          40          45
Leu Leu Arg Val Leu Asn Leu Leu Glu Met Pro Arg Ser Gly Thr Leu
          50          55          60
Ala Ile Ala Gly Asn His Phe Asp Phe Ala Lys Thr Pro Ser Asp Lys
65          70          75          80
Ala Ile Arg Glu Leu Arg Gln Asn Val Gly Met Val Phe Gln Gln Tyr
          85          90          95
Asn Leu Trp Pro His Leu Thr Val Val Gln Asn Leu Ile Glu Ala Pro
          100          105          110
Cys Arg Val Leu Gly Leu Ser Lys Asp Gln Ala Met Ala Arg Ala Glu
          115          120          125
Lys Leu Leu Glu Arg Leu Arg Leu Lys Pro Tyr Ser Asp Arg Tyr Pro
          130          135          140
Leu His Leu Ser Gly Gly Gln Gln Gln Arg Val Ala Ile Ala Arg Ala
145          150          155          160

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Leu Met Met Glu Pro Ala Val Leu Leu Phe Asp Glu Pro Thr Ala Ala
      165      170      175
Leu Asp Pro Glu Ile Thr Ala Gln Ile Val Ser Ile Ile Arg Glu Leu
      180      185      190
Ala Glu Thr Asn Ile Thr Gln Val Ile Val Thr His Glu Val Glu Val
      195      200      205
Ala Arg Lys Thr Ala Ser Arg Val Val Tyr Met Glu Asn Gly Tyr Ile
      210      215      220
Val Glu Gln Gly Asp Ala Ser Cys Phe Thr Asn Pro Gln Thr Asp Ala
      225      230      235      240
Phe Lys Asn Tyr Leu Ser His
      245

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<210> 9221

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 9221

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Cys Val Arg Glu Ile Ile Met Lys Lys Val Leu Ile Ala Ala Leu Leu
 1      5      10      15
Ala Ser Val Ser Leu Ser Ala Thr Ala Ala Gln Thr Ile Arg Phe Ala
      20      25      30
Thr Glu Ala Ser Tyr Pro Pro Phe Glu Ser Ile Asp Ala Asn Asn Lys
      35      40      45
Ile Val Gly Phe Asp Val Asp Leu Ala Asn Ala Leu Cys Lys Glu Ile
      50      55      60
Asp Ala Thr Cys Thr Phe Ser Asn Gln Ala Phe Asp Ser Leu Ile Pro
      65      70      75      80
Ser Leu Lys Phe Arg Arg Ile Asp Ala Val Met Ala Gly Met Asp Ile
      85      90      95
Thr Pro Glu Arg Glu Lys Gln Val Leu Phe Thr Thr Pro Tyr Tyr Asp
      100      105      110
Asn Ser Ala Leu Phe Ile Gly Gln Lys Gly Lys Tyr Ala Ser Val Asp
      115      120      125
Leu Leu Lys Gly Lys Lys Val Gly Val Gln Asn Gly Thr Thr His Gln
      130      135      140
Lys Phe Ile Met Asp Lys His Pro Glu Ile Thr Thr Val Pro Tyr Asp
      145      150      155      160
Ser Tyr Gln Asn Ala Lys Leu Asp Leu Gln Asn Gly Arg Ile Asp Ala
      165      170      175
Val Phe Gly Asp Thr Ala Val Val Thr Glu Trp Leu Lys Ala Asn Asp
      180      185      190
Lys Leu Ala Ala Val Gly Asp Lys Val Thr Asp Lys Asp Tyr Phe Gly
      195      200      205
Thr Gly Leu Gly Ile Ala Val Arg Gln Gly Asn Thr Glu Leu Gln Gln
      210      215      220
Lys Phe Asn Ala Ala Leu Glu Lys Val Lys Lys Asp Gly Thr Tyr Glu
      225      230      235      240
Thr Ile Tyr Lys Lys Trp Phe Gln Lys
      245      250

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<210> 9222

<211> 228

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (5)

<220>
 <221>UNSURE
 <222>(23)

<220>
 <221>UNSURE
 <222>(73)

<400> 9222

```

Thr Glu Thr Arg Xaa Met Trp Asp Tyr Leu Pro Glu Leu Met Lys Gly
1      5      10      15
Leu His Thr Ser Leu Thr Xaa Thr Val Ala Ser Ile Ile Val Ala Leu
20     25     30
Ile Leu Ala Leu Ile Phe Thr Phe Val Leu Thr Leu Lys Thr Pro Val
35     40     45
Leu Val Trp Ile Val Arg Gly Tyr Ile Thr Leu Phe Thr Gly Thr Pro
50     55     60
Leu Leu Val Gln Ile Phe Leu Ile Xaa Tyr Gly Pro Gly Gln Phe Pro
65     70     75     80
Ser Leu Gln Glu Tyr Pro Val Ile Trp His Leu Leu Ser Glu Pro Trp
85     90     95
Leu Cys Ala Leu Ile Ala Leu Ser Met Asn Ser Ala Ala Tyr Thr Thr
100    105    110
Gln Leu Phe Tyr Gly Ala Ile Arg Ala Ile Pro Glu Gly Gln Trp Gln
115    120    125
Ser Cys Gly Ala Leu Gly Met Ser Lys Lys Asp Thr Leu Ala Ile Leu
130    135    140
Leu Pro Tyr Ala Phe Lys Arg Ala Leu Ser Ser Tyr Ser Asn Glu Val
145    150    155    160
Val Leu Val Phe Lys Ser Thr Ser Leu Ala Tyr Thr Ile Thr Leu Met
165    170    175
Glu Val Met Gly His Gly Gln Leu Leu Tyr Gly Arg Thr Tyr Asp Val
180    185    190
Met Val Phe Gly Ala Ala Gly Leu Val Tyr Leu Val Val Asn Gly Leu
195    200    205
Leu Thr Leu Met Met Arg Leu Ile Glu Arg Lys Ala Leu Ala Phe Glu
210    215    220
Arg Arg Asn
225

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<210> 9223
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

<400> 9223

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Met Ala Lys Glu Asp Asn Ile Glu Met Gln Gly Thr Val Leu Asp Thr
1      5      10      15
Leu Pro Asn Thr Met Phe Arg Val Glu Leu Asn Gly His Val Val
20     25     30
Thr Ala His Ile Ser Gly Lys Met Arg Lys Asn Tyr Ile Arg Ile Leu
35     40     45
Thr Gly Asp Lys Val Thr Val Glu Leu Thr Pro Tyr Asp Leu Ser Lys
50     55     60
Gly Arg Ile Val Phe Arg Ser Arg
65     70

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<210> 9224
 <211> 96
 <212> PRT
 <213> Enterobacter cloacae

<400> 9224

Thr Ala Pro Thr Pro Pro Val His Ser Ile Leu Ile Tyr Lys Ile
 1 5 10 15
 Tyr Glu Gly Cys Arg Ser Met Glu Met Gly Thr Val Lys Trp Phe Asn
 20 25 30
 Asn Ala Lys Gly Phe Gly Phe Ile Cys Pro Glu Gly Gly Gly Asp
 35 40 45
 Ile Phe Ala His Tyr Ser Thr Ile Gln Met Asp Gly Tyr Arg Thr Leu
 50 55 60
 Lys Ala Gly Gln Ser Val Arg Phe Asp Val His Gln Gly Pro Lys Gly
 65 70 75 80
 Asn His Ala Ser Leu Ile Val Pro Val Glu Ala Glu Thr Val Ala
 85 90 95

<210> 9225

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 9225

Asn Ser Asp Ile Pro Pro Glu Ala Gly Ser Asn Met Ser Ser Ile Val
 1 5 10 15
 Asp Thr Pro Tyr Ser Thr Leu Pro Gln Pro Lys Ser Gly Trp Gln Leu
 20 25 30
 Phe Lys Ser Leu Thr Ser Gly Ser Leu Thr Pro Gly Leu Ala Trp Gln
 35 40 45
 Asn Pro Ala Tyr Arg Arg Lys Phe Met Leu Arg Ser Leu Ala Thr Pro
 50 55 60
 Phe Thr Thr Ala Arg Leu Leu Gly Asn Leu Ala Lys Gln Pro Arg Leu
 65 70 75 80
 Met Gln Ile Leu Arg Val Gln Pro Gly Leu Pro Cys Arg Leu His Arg
 85 90 95
 Pro Trp Leu Thr Val Asn Met Gly Arg Gln Asn Thr Leu Asp Ala Leu
 100 105 110
 Asn Asp His Tyr Gln Met Met Ser Arg His Leu Pro Ala Ser Leu Leu
 115 120 125
 Asn Gly Tyr Leu Ser Ser Gln Gly Ile Thr Leu Val Thr Leu Thr Gly
 130 135 140
 Lys Glu Glu Gln Gln Phe Ser Val Arg Leu Ser Ala Asp Ala Phe Leu
 145 150 155 160
 Asp Lys Glu Gly Glu Ala Thr Leu Thr Phe Cys Asp His Gln Asn Thr
 165 170 175
 Val Leu Ala Glu Leu Thr Phe Thr Leu Cys Lys Tyr Gln Gly Lys Ser
 180 185 190
 Thr Leu Phe Ile Gly Gly Met Gln Gly Ala Lys Ala His Val Pro His
 195 200 205
 Glu His Ile Gln Leu Ala Thr Lys Ala Cys His Gly Leu Phe Pro Lys
 210 215 220
 Arg Leu Leu Val Glu Ala Val Met Thr Leu Ala Gly Ala Phe Pro Val
 225 230 235 240
 Glu Gln Ile Leu Ala Val Ser Asn Ala Thr His Ile Tyr Arg Ser Trp
 245 250 255
 Arg Tyr Arg Lys Lys Lys Glu Gly Lys Leu Leu Ala Asp Tyr Asp Ser
 260 265 270
 Phe Trp Arg Ser Leu Gly Gly Gln Gln Asp Asn Gly Asn Phe Ala
 275 280 285
 Leu Pro Leu Thr Met Pro Arg Lys Pro Met Glu Glu Ile Ala Ser Lys
 290 295 300
 Lys Arg Ser Glu Tyr Arg Arg Arg Tyr Thr Leu Asp Ser Leu Ile
 305 310 315 320

Gln Gln Val Ser Gln Ala Thr Asp Arg
325 330

<210> 9226

<211> 324

<212> PRT

<213> *Enterobacter cloacae*

<400> 9226

Leu Met Thr Met Pro Thr Ser Gln Cys Pro Trp Arg Met Gln Val His
1 5 10 15
His Ile His Gln Glu Thr Pro Asp Val Trp Thr Leu Ser Leu Cys
20 25 30
His Asp Tyr Tyr Pro Tyr Arg Pro Gly Gln Tyr Ala Leu Val Ser Val
35 40 45
Arg Asn Ser Ala Asn Thr Leu Arg Ala Tyr Thr Leu Ser Ser Thr Pro
50 55 60
Gly Val Ser Glu Tyr Ile Thr Leu Thr Val Arg Arg Ile Asp Asp Gly
65 70 75 80
Ala Gly Ser Glu Trp Leu Thr Arg Asp Val Lys Arg Gly Asp Tyr Ile
85 90 95
Trp Leu Ser Asp Ala Gln Gly Glu Phe Thr Cys Asp Asp Lys Thr Glu
100 105 110
Asp Lys Phe Leu Leu Leu Ala Ala Gly Cys Gly Val Thr Pro Ile Met
115 120 125
Ser Met Arg Arg Trp Leu Ala Lys Tyr Arg Pro Gln Ala Asp Val Gln
130 135 140
Val Ile Phe Ser Val Arg Ser Pro Glu Asp Val Ile Phe Ala Glu Glu
145 150 155 160
Trp Arg Asn Tyr Pro Val Thr Leu Val Ala Glu His Asn Ala Thr His
165 170 175
Gly Phe Val Ala Gly Arg Leu Ser Arg Glu Leu Leu Gln Ser Val Pro
180 185 190
Asp Ile Ala Asn Arg Thr Val Met Thr Cys Gly Pro Ala Pro Tyr Met
195 200 205
Glu Ile Val Glu Lys Glu Val Lys Ala Leu Gly Val Thr Arg Phe Phe
210 215 220
Lys Glu Gln Phe Phe Thr Pro Val Ala Ala Ala Ala Thr Ser Gly Met
225 230 235 240
Lys Phe Thr Lys Leu Gln Pro Ala Gln Thr Phe Phe Gly Arg Val Gly
245 250 255
Thr Thr Leu Leu Glu Ala Leu Glu Ser Asn Asn Val Pro Val Ala Ala
260 265 270
Ala Cys Arg Ala Gly Val Cys Gly Cys Cys Lys Thr Lys Val Val Ser
275 280 285
Gly Glu Tyr Thr Val Thr Ser Thr Met Thr Leu Thr Asp Ala Glu Ile
290 295 300
Ala Glu Gly Tyr Val Leu Ala Cys Ser Cys His Pro Gln Gly Asp Leu
305 310 315 320
Val Leu Ala

<210> 9227

<211> 337

<212> PRT

<213> *Enterobacter cloacae*

<400> 9227

Gly His Ala Met Ile Asp Leu Arg Ser Asp Thr Val Thr Arg Pro Ser
1 5 10 15
Arg Ala Met Leu Glu Glu Met Met Ala Ala Pro Val Gly Asp Asp Val

```

      20      25      30
Tyr Gly Asp Pro Thr Val Asn Glu Leu Gln Arg Tyr Ala Ala Glu
  35      40      45
Leu Ser Gly Lys Glu Ala Ala Leu Phe Leu Pro Thr Gly Thr Gln Ala
  50      55      60
Asn Leu Val Ala Leu Leu Ser His Cys Glu Arg Gly Glu Glu Tyr Ile
  65      70      75
Val Gly Gln Gly Ala His Asn Tyr Leu Tyr Glu Ala Gly Gly Ala Ala
  85      90      95
Val Leu Gly Ser Ile Gln Pro Gln Pro Ile Asp Ala Ala Pro Asp Gly
 100      105      110
Thr Leu Pro Leu Asp Lys Val Ala Ala Lys Ile Lys Ala Asp Asp Ile
 115      120      125
His Phe Ala Arg Thr Lys Leu Leu Ser Leu Glu Asn Thr His Asn Gly
 130      135      140
Lys Val Leu Pro Arg Glu Tyr Leu Lys Ala Ala Trp Asp Phe Thr Arg
 145      150      155
Glu Arg Lys Leu Gly Leu His Val Asp Gly Ala Arg Ile Phe Asn Ala
 165      170      175
Val Val Glu Tyr Gly Cys Glu Leu Lys Ala Ile Thr Gln Tyr Cys Asp
 180      185      190
Ser Phe Thr Ile Cys Leu Ser Lys Gly Leu Gly Thr Pro Val Gly Ser
 195      200      205
Leu Leu Val Gly Ser Ala Asp Tyr Ile Arg Arg Ala Asn Arg Trp Arg
 210      215      220
Lys Met Thr Gly Gly Gly Met Arg Gln Ala Gly Ile Leu Ala Ala Ala
 225      230      235
Gly Leu Tyr Ala Leu Lys Asn Asn Val Ser Arg Leu Lys Asp Asp His
 245      250      255
Asp Asn Ala Ala Trp Met Ala Ala Gln Leu Arg Glu Ile Gly Ala Asp
 260      265      270
Val Met Arg His Asp Thr Asn Met Leu Phe Val Arg Val Gly Asp Glu
 275      280      285
His Ala Ala Ala Leu Gly Asp Phe Met Lys Ala Arg Gly Val Leu Ile
 290      295      300
Asn Ala Ser Pro Val Val Arg Leu Val Met His Leu Asp Val Asn Arg
 305      310      315
Glu Gln Leu Thr Glu Val Val Lys His Trp Gln Ala Phe Leu Gln Arg
 325      330      335

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<210> 9228

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 9228

```

Leu Asn Lys Thr Leu Asn Leu Ser Pro Phe Pro Leu Gln His Ile Val
 1      5      10      15
Ile His Glu Arg Met Arg Thr Lys Phe Phe Ser Thr Gln Trp Ile Val
 20      25      30
Met Lys Val Leu Val Thr Gly Ala Thr Ser Gly Leu Gly Arg Asn Ala
 35      40      45
Val Glu Phe Leu Arg Asn Lys Gly Ile Ser Val Arg Ala Thr Gly Arg
 50      55      60
Asn Glu Ala Met Gly Lys Leu Leu Gln Lys Met Gly Ala Glu Phe Val
 65      70      75
His Ala Asp Leu Thr Glu Leu Val Ser Ser Gln Ala Lys Val Met Leu
 85      90      95
Ala Gly Ile Asp Thr Leu Trp His Cys Ser Ser Phe Thr Ser Pro Trp

```

100 105 110
 Gly Thr Gln Glu Ala Phe Asp Leu Ala Asn Val Arg Ala Thr Arg Arg
 115 120 125
 Leu Gly Glu Trp Ala Val Ala Trp Gly Val Arg Asn Phe Ile His Ile
 130 135 140
 Ser Ser Pro Ser Leu Tyr Phe Asp Tyr His His Arg Asp Ile Gln
 145 150 155 160
 Glu Asp Phe Arg Pro Ala Arg Phe Ala Cys Glu Phe Ala Arg Ser Lys
 165 170 175
 Ala Ala Gly Glu Glu Val Ile Asp Leu Leu Ala Gln Ser Asn Pro His
 180 185 190
 Thr Arg Phe Thr Val Leu Arg Pro Gln Ser Leu Phe Gly Pro His Asp
 195 200 205
 Lys Val Phe Ile Pro Arg Leu Ala Gln Met Met His His Tyr Gly Ser
 210 215 220
 Val Leu Leu Pro Arg Gly Gly Asp Ala Leu Val Asp Met Thr Tyr Tyr
 225 230 235 240
 Glu Asn Ala Val His Ala Met Trp Leu Ala Ser Gln Pro Glu Cys Asp
 245 250 255
 Lys Leu Val Ser Gly Arg Ala Tyr Asn Ile Thr Asn Gly Glu Pro Cys
 260 265 270
 Thr Leu Arg Ser Ile Val Gln Arg Leu Ile Asp Glu Leu Lys Ile Asp
 275 280 285
 Cys Arg Ile Arg Ser Val Pro Tyr Pro Met Leu Asp Met Ile Ala Arg
 290 295 300
 Ser Met Glu Arg Phe Gly Ser Lys Ser Ala Lys Glu Pro Ala Leu Thr
 305 310 315 320
 His Tyr Gly Val Ser Lys Leu Asn Phe Asp Phe Thr Leu Asp Ile Ser
 325 330 335
 Arg Ala Glu Asn Glu Leu Gly Tyr Lys Pro Ile Val Ser Leu Asp Glu
 340 345 350
 Gly Ile Val Arg Thr Ala Ala Trp Leu Arg Asp His Gly Lys Leu His
 355 360 365
 Arg
 370

<210> 9229

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 9229

Gln Ala Pro Pro Gly Met Asn Val Gly Leu Ala Val Cys Ala Leu Ile
 1 5 10 15
 Ile Gly Leu Val Leu Ala Met Phe Phe Ala Val Trp Glu Ser Val Lys
 20 25 30
 Trp Arg Pro Val Ala Trp Leu Gly Ser Ala Leu Val Thr Val Leu Arg
 35 40 45
 Gly Leu Pro Glu Ile Leu Val Phe Leu Phe Ile Tyr Phe Gly Ser Ser
 50 55 60
 Gln Leu Leu Leu Thr Leu Ser Asp Gly Phe Thr Ile Asn Leu Gly Phe
 65 70 75 80
 Ala Gln Ile Pro Val Gln Met Gln Ile Glu Asn Phe Asp Val Ser Pro
 85 90 95
 Phe Leu Cys Gly Val Ile Ala Leu Ser Leu Leu Tyr Ser Ala Tyr Ala
 100 105 110
 Ser Gln Thr Leu Arg Gly Ala Leu Lys Ala Val Pro Gln Gly Gln Trp
 115 120 125
 Glu Ser Gly Gln Ala Leu Gly Leu Ser Lys Ala Ala Ile Phe Phe Arg
 130 135 140
 Leu Val Met Pro Gln Met Trp Arg His Ala Leu Pro Gly Leu Gly Asn

```

145          150          155          160
Gln Trp Leu Val Leu Leu Lys Asp Thr Ala Leu Val Ser Leu Ile Ser
          165          170          175
Val Asn Asp Leu Met Leu Gln Thr Lys Ser Ile Ala Thr Arg Thr Gln
          180          185          190
Glu Pro Phe Thr Trp Tyr Ile Val Ala Ala Ala Ile Tyr Leu Val Ile
          195          200          205
Thr Leu Leu Ser Gln Tyr Val Leu Lys Arg Ile Asp Leu Arg Ala Thr
          210          215          220
Arg Phe Glu Arg Arg Pro Gly
225          230

```

<210> 9230

<211> 592

<212> PRT

<213> Enterobacter cloacae

<400> 9230

```

Ala Arg Arg Leu Arg Ala Cys Cys Arg Ala Gly Ala Val Cys Asp
1          5          10          15
Pro Ala Gly Glu Pro Ser Gly Gly Tyr Leu Met Arg Ala Leu Leu Pro
          20          25          30
Tyr Leu Ala Leu Tyr Lys Arg His Lys Trp Met Leu Thr Leu Gly Ile
          35          40          45
Val Leu Ala Ile Val Thr Leu Leu Ala Ser Ile Gly Leu Leu Thr Leu
          50          55          60
Ser Gly Trp Phe Leu Ser Ala Ser Ala Ala Ala Gly Phe Ala Gly Leu
65          70          75          80
Tyr Ser Phe Asn Tyr Met Leu Pro Ala Ala Gly Val Arg Gly Thr Ala
          85          90          95
Ile Thr Arg Thr Ala Gly Arg Tyr Phe Glu Arg Leu Val Ser His Asp
          100          105          110
Ala Thr Phe Arg Val Leu Gln His Leu Arg Ile Tyr Thr Phe Ser Lys
          115          120          125
Leu Leu Pro Leu Ser Pro Ala Gly Leu Ala Arg Phe Arg Gln Gly Glu
          130          135          140
Leu Leu Asn Arg Val Val Ala Asp Val Asp Thr Leu Asp His Leu Tyr
145          150          155          160
Leu Arg Val Ile Ser Pro Met Val Gly Ala Phe Val Val Ile Val Val
          165          170          175
Val Thr Leu Gly Leu Ser Phe Leu Asp Val Pro Ile Ala Leu Thr Leu
          180          185          190
Gly Gly Ile Met Leu Met Thr Leu Ile Ile Leu Pro Pro Leu Phe Tyr
          195          200          205
Arg Ala Gly Lys Thr Thr Gly Glu Asn Leu Thr Arg Leu Arg Gly Glu
          210          215          220
Tyr Arg Gln Gln Leu Thr Ala Trp Leu Gln Gly Gln Ala Glu Leu Thr
225          230          235          240
Leu Phe Gly Ala Ser Lys Arg Tyr Arg Ala Arg Met Glu Asn Thr Glu
          245          250          255
Leu Asn Trp His Glu Ala Gln Arg Arg Gln Ser Glu Leu Thr Ala Phe
          260          265          270
Ser Gln Ala Leu Met Met Leu Ile Gly Gly Ile Ala Val Ile Ala Met
          275          280          285
Leu Trp Met Ala Ser Gly Gly Val Gly Asp Asn Ala Gln Pro Gly Pro
290          295          300
Leu Ile Ala Leu Phe Val Phe Cys Ala Leu Ala Ala Phe Glu Ala Leu
305          310          315          320
Ala Pro Val Thr Gly Ala Phe Gln His Leu Gly Gln Val Ile Ala Ser
          325          330          335
Ala Leu Arg Ile Thr Asp Ile Ala Glu Gln Glu Pro Glu Val Lys Phe

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<210> 9231
<211> 250
<212> PRT
<213> Enterobacter cloacae
```

Thr	Ile	Phe	Val	Ala	Ser	Ser	Leu	Ala	Tyr	Trp	Ser	Ser	Val	Val	Met
1			5						10				15		
Arg	Leu	Val	Gln	Leu	Ser	Arg	His	Asn	Ile	Ala	Phe	Pro	Ser	Pro	Glu
			20					25				30			
Gly	Ala	Leu	Arg	Glu	Pro	Asn	Gly	Leu	Leu	Ala	Leu	Gly	Gly	Asp	Leu
		35					40					45			
Ser	Pro	Ala	Arg	Leu	Leu	Met	Ala	Tyr	Gln	Arg	Gly	Ile	Phe	Pro	Trp
		50				55					60				
Phe	Ser	Pro	Gly	Asp	Pro	Ile	Leu	Trp	Trp	Ser	Pro	Asp	Pro	Arg	Ala
		65			70					75					80
Val	Leu	Trp	Pro	Gly	Gln	Phe	His	Leu	Ser	Arg	Ser	Met	Lys	Arg	Phe
				85					90					95	
His	Ala	Lys	Ser	Pro	Phe	Arg	Val	Thr	Leu	Asn	His	Ala	Phe	Gly	Gln
			100					105					110		
Val	Ile	Glu	Gly	Cys	Ala	Glu	Asp	Arg	His	Glu	Gly	Thr	Trp	Ile	Thr
		115					120					125			
Arg	Asp	Ile	Ile	Ile	Ala	Tyr	His	Gln	Leu	His	Glu	Leu	Gly	Tyr	Ala
		130				135						140			
His	Ser	Ile	Glu	Val	Trp	Lys	Glu	Asp	Asn	Leu	Val	Gly	Gly	Met	Tyr
		145			150					155					160
Gly	Val	Ala	Gln	Gly	Thr	Leu	Phe	Cys	Gly	Glu	Ser	Met	Phe	Ser	Arg
			165						170					175	
Ala	Thr	Asn	Ala	Ser	Lys	Thr	Ala	Leu	Leu	Val	Phe	Ser	Glu	Gly	Phe

Ala	Arg	Arg	180	Gly	Arg	Leu	Met	185	Asp	Cys	Gln	Val	Leu	Asn	Glu	His
		195					200							205		
Thr	Ala	Ser	Leu	Gly	Ala	Val	Glu	Ile	Ser	Arg	Arg	His	Tyr	Ile	Glu	
		210					215				220					
His	Leu	Glu	Gln	Cys	Arg	Lys	Glu	Thr	Leu	Pro	Arg	Asp	Phe	Trp	Val	
		225			230					235					240	
Pro	Arg	Ala	Leu	Phe	Met	Pro	Asn	Ala								
			245						250							

<210> 9232

<211> 578

<212> PRT

<213> Enterobacter cloacae

<400> 9232

Arg	Arg	Arg	Thr	Thr	Met	Lys	Gln	Thr	Val	Ala	Ala	Tyr	Ile	Ala	Lys
1			5				10						15		
Thr	Leu	Glu	Gln	Ala	Gly	Val	Lys	Arg	Ile	Trp	Gly	Val	Thr	Gly	Asp
		20					25						30		
Ser	Leu	Asn	Gly	Leu	Ser	Asp	Ser	Leu	Asn	Lys	Met	Lys	Thr	Ile	Glu
		35				40						45			
Trp	Met	Pro	Thr	Arg	His	Glu	Glu	Val	Ala	Ala	Phe	Ala	Ala	Gly	Ala
		50				55				60					
Glu	Ala	Gln	Leu	Thr	Gly	Glu	Leu	Ala	Val	Cys	Ala	Gly	Ser	Cys	Gly
		65			70				75					80	
Pro	Gly	Asn	Leu	His	Leu	Ile	Asn	Gly	Leu	Phe	Asp	Cys	His	Arg	Asn
			85					90					95		
His	Val	Pro	Val	Leu	Ala	Ile	Ala	Ala	His	Ile	Pro	Ser	Ser	Glu	Ile
			100				105						110		
Gly	Ser	Gly	Tyr	Phe	Gln	Glu	Thr	His	Pro	Gln	Glu	Leu	Phe	Arg	Glu
		115				120						125			
Cys	Ser	His	Tyr	Cys	Glu	Leu	Val	Ser	Ser	Pro	Glu	Gln	Ile	Pro	Gln
		130				135					140				
Val	Leu	Ala	Ile	Ala	Met	Arg	Lys	Ala	Ile	Leu	Asn	Arg	Gly	Val	Ser
		145			150				155					160	
Val	Val	Val	Leu	Pro	Gly	Asp	Val	Ala	Leu	Lys	Ala	Ala	Pro	Glu	Thr
			165						170					175	
Ala	Thr	Thr	His	Trp	Tyr	Ser	Ala	Pro	Gln	Pro	Thr	Ile	Thr	Pro	Ala
			180				185						190		
Glu	Glu	Glu	Leu	Lys	Lys	Leu	Ala	Gln	Leu	Leu	Arg	Tyr	Ser	Ser	Asn
		195				200						205			
Ile	Ala	Leu	Met	Cys	Gly	Ser	Gly	Cys	Ala	Gly	Ala	His	Lys	Glu	Leu
		210				215					220				
Val	Glu	Phe	Ala	Gly	Lys	Leu	Lys	Ala	Pro	Val	Val	His	Ala	Leu	Arg
		225			230				235					240	
Gly	Lys	Glu	His	Val	Glu	Tyr	Asp	Asn	Pro	Tyr	Asp	Val	Gly	Met	Thr
			245					250					255		
Gly	Leu	Ile	Gly	Phe	Ser	Ser	Gly	Phe	His	Thr	Met	Met	Asn	Ala	Asp
		260					265						270		
Thr	Leu	Ile	Leu	Leu	Gly	Thr	Gln	Phe	Pro	Tyr	Arg	Ala	Phe	Tyr	Pro
		275				280						285			
Thr	Asp	Ala	Lys	Ile	Ile	Gln	Ile	Asp	Ile	Asn	Pro	Gly	Ser	Ile	Gly
		290			295						300				
Ala	His	Ser	Lys	Val	Asp	Met	Ala	Leu	Ile	Gly	Asp	Ile	Lys	Ser	Thr
		305			310					315				320	
Leu	Ala	Ala	Leu	Leu	Pro	Leu	Leu	Glu	Glu	Lys	Thr	Asp	Arg	Lys	Phe
			325					330						335	
Leu	Asp	Lys	Ala	Leu	Ser	Asp	Tyr	Arg	Asp	Ala	Arg	Lys	Gly	Leu	Asp
			340				345					350			
Asp	Leu	Ala	Lys	Pro	Ser	Glu	Lys	Ala	Ile	His	Pro	Gln	Tyr	Leu	Ala

```

      355              360              365
Gln Gln Ile Ser His Phe Ala Asp Gly Asp Ala Ile Phe Thr Cys Asp
  370              375              380
Val Gly Thr Pro Thr Val Trp Ala Ala Arg Tyr Leu Lys Met Asn Gly
  385              390              395              400
Lys Arg Arg Leu Leu Gly Ser Phe Asn His Gly Ser Met Ala Asn Ala
              405              410              415
Met Pro Gln Ala Leu Gly Ala Lys Ala Thr Ala Pro Glu Arg Gln Val
              420              425              430
Val Ala Met Cys Gly Asp Gly Gly Phe Ser Met Leu Met Gly Asp Phe
  435              440              445
Leu Ser Val Ala Gln Met Lys Leu Pro Leu Lys Ile Val Val Phe Asn
  450              455              460
Asn Ser Val Leu Gly Phe Val Ala Met Glu Met Lys Ala Gly Gly Tyr
  465              470              475              480
Leu Thr Asp Gly Thr Glu Leu His Asp Trp Asn Phe Ala Arg Ile Ala
              485              490              495
Glu Ala Cys Gly Ile Thr Gly Ile Arg Val Glu Lys Ala Ser Glu Val
              500              505              510
Asp Asp Ala Leu Gln Arg Ala Phe Ala Ile Asp Gly Pro Val Leu Val
  515              520              525
Asp Val Val Val Ala Lys Glu Glu Leu Ala Ile Pro Pro Gln Ile Lys
  530              535              540
Leu Glu Gln Ala Lys Gly Phe Ser Leu Tyr Met Leu Arg Ala Ile Ile
  545              550              555              560
Ser Gly Arg Gly Asp Glu Val Ile Glu Leu Ala Lys Thr Asn Trp Leu
              565              570              575
Arg

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<210> 9233

<211> 492

<212> PRT

<213> Enterobacter cloacae

<400> 9233

```

Asn Thr Gly Arg Arg Phe Tyr Ser Val Lys Glu His Thr Val Pro Gln
  1              5              10              15
Arg Ile Leu Val Leu Gly Ala Ser Gly Tyr Ile Gly Gln His Leu Thr
              20              25              30
Thr Ala Leu Ser Gln Gln Gly His Gln Val Leu Ala Ala Arg Asn
  35              40              45
Thr Glu Arg Leu Gln Lys Leu His Leu Pro Gly Val Thr Cys His Asn
  50              55              60
Val Asp Leu Asn Trp Pro Lys Ala Leu Pro Ala Leu Leu Glu Gly Val
  65              70              75              80
Asp Thr Leu Tyr Tyr Leu Val His Ser Met Gly Glu Gly Gly Asp Phe
              85              90              95
Ile Ala His Glu Arg Gln Val Ala Met Asn Val Arg Asp Ala Leu Arg
              100              105              110
Gln Thr Pro Val Lys Gln Val Ile Phe Leu Ser Ser Leu Gln Ala Pro
  115              120              125
Glu Asn Glu Gln Ser Asp His Leu Arg Ala Arg Gln Leu Thr Ala Glu
  130              135              140
Thr Leu Arg Ser Ala Arg Ile Pro Val Thr Glu Leu Arg Ala Gly Ile
  145              150              155              160
Ile Val Gly Ala Gly Ser Ala Ala Phe Glu Val Met Arg Asp Met Val
              165              170              175
Tyr Asn Leu Pro Val Leu Thr Pro Pro Arg Trp Val Arg Ser Arg Thr
              180              185              190
Thr Pro Ile Ala Leu Glu Asn Leu Leu His Tyr Leu Val Ala Leu Leu

```


195	200	205
Asp His Pro Ala Glu Gln His Arg Val Leu Glu Ala Ala Gly Pro Glu		
210	215	220
Val Leu Ser Tyr Gln Ala Gln Phe Glu His Phe Met Arg Val Ser Gly		
225	230	235
Arg Arg Arg Trp Leu Ile Pro Ile Pro Phe Pro Thr Arg Trp Ile Ser		
245	250	255
Val Trp Phe Leu Asn Val Ile Thr Ser Val Pro Pro Thr Thr Ala Lys		
260	265	270
Ala Leu Ile Gln Gly Leu Lys His Asp Leu Leu Ala Asp Asp Arg Ala		
275	280	285
Leu Arg Ala Leu Ile Pro Gln Glu Leu Ile Arg Phe Asp Asp Ala Val		
290	295	300
Arg Asn Thr Leu Lys Glu Glu Glu Lys Leu Val Asn Ser Ser Asp Trp		
305	310	315
Gly Tyr Asp Ala Gln Ala Phe Ala Arg Trp Arg Pro Glu Tyr Gly Tyr		
325	330	335
Tyr Pro Lys Gln Ala Gly Cys Thr Val Lys Thr Thr Ala Ser Leu Ala		
340	345	350
Ala Leu Trp Glu Val Val Asn Gln Ile Gly Gly Lys Glu Arg Tyr Phe		
355	360	365
Phe Gly Asn Ile Leu Trp Gln Thr Arg Gly Ala Leu Asp Leu Leu Val		
370	375	380
Gly His Arg Leu Ala Lys Gly Arg Pro Ala His Pro Trp Leu Lys Val		
385	390	395
Gly Asp Thr Val Asp Ser Trp Lys Val Ile Ile Val Glu Pro Glu Lys		
405	410	415
Gln Leu Ala Leu Leu Phe Gly Met Lys Ala Pro Gly Leu Gly Arg Leu		
420	425	430
Cys Phe Thr Leu Lys Asp Lys Gly Asp His Arg Glu Leu Asp Val Arg		
435	440	445
Ala Trp Trp His Pro His Gly Met Pro Gly Leu Phe Tyr Trp Leu Leu		
450	455	460
Met Ile Pro Ala His Leu Phe Ile Phe Arg Gly Met Ala Lys Arg Ile		
465	470	475
Ala Leu Leu Ala Glu Glu Lys Arg Glu Asn Asn		
485	490	

<210> 9234

<211> 606

<212> PRT

<213> *Enterobacter cloacae*

<400> 9234

Pro Leu Arg Gly Ile Thr Leu Leu Ser Ala Ala Val Ala Ile Pro Asn	
1	5
Gln Arg Arg Ser Val Val Met Tyr Gln Ser His Phe Asn Phe Lys Asn	
20	25
Pro Pro Phe Arg Thr Ile Thr Arg Leu Ser Gly Asp Phe Leu Val Pro	
35	40
Tyr His Gln Asp Val Phe Asn Leu Leu Lys Glu Lys Thr Gln Leu Ala	
50	55
Gly Ile Ile Gly Leu Phe Cys Asp Asp Ala Pro Leu Leu Ser His Phe	
65	70
Ile Asp Ala Leu Lys Ala Ser Ser Asn Thr Val Ile Ala Ile Asn Ala	
85	90
Phe Pro Lys Leu Ser Ala Ser Ser Leu Leu Tyr Lys Leu Asn Pro Gly	
100	105
Thr Lys Ala Ile Lys Asp Arg Met Gln Ala Val Asp Ala Val Leu Arg	
115	120
Gln Trp Gln Glu Gly Lys Ala Lys Ser Arg Val Leu Thr Ile Ala His	

130	135	140
Ser Glu Ala Met Lys Glu	Ser Cys Arg Glu Val	Leu Gly Thr Leu Leu
145	150	155
Thr Arg Ala Gln Glu Leu	Asn Phe Arg Leu Ala	Val Val Leu Thr Gly
165	170	175
Ala Ala Glu Gln Glu Arg	Leu Lys Gln Pro Glu	Leu Arg Glu Tyr
180	185	190
Thr His Thr His His Val	Leu Arg Pro Leu Thr	Cys Arg Glu Tyr Leu
195	200	205
Ser Tyr Val Gln Ala Gln	Cys Glu Glu His Asp	Cys Glu His Ser Pro
210	215	220
Leu Pro Pro Ala Arg Val	Arg Lys Met His Thr	Leu Thr Lys Gly Asn
225	230	235
Ile Ser Lys Leu Asn Ala	Leu Ala His Leu Ser	Met Leu Ala Ala Trp
245	250	255
Thr Glu Arg Ala Ala Gln	Val Ser Pro Arg His	Leu Arg Leu Ala Ala
260	265	270
Gly Glu Ile Leu Pro Ala	Lys Lys His Gly Lys	Arg Leu Ala Thr Val
275	280	285
Gly Leu Phe Ala Ser Val	Leu Phe Ala Ala Cys	Gly Trp Tyr Phe Thr
290	295	300
Ser Ser Ile Gly Ala Arg	Leu Pro Ile Gln Leu	Pro Val Pro Val Ser
305	310	315
Trp Lys Gln Gln Thr Pro	Lys Pro Glu Ala Val	Val Pro Val Ile
325	330	335
Asp Asn Glu Ile Val Asn	Gln Pro Asp Ala Met	His Gln Leu Tyr Leu
340	345	350
Met Trp Gly Tyr Asp Ala	Ser Ala Asp Asp Ala	Leu Cys Gln Asn Ala
355	360	365
Ala Lys Val Asn Leu Met	Cys Lys Gln Gly Asn	Ala Ser Pro Glu Thr
370	375	380
Leu Ala Gln Glu Gly Tyr	Pro Trp Val Ser Glu	Leu Lys Thr Ser Gly
385	390	395
His Leu Asn Tyr Ala Val	Val Ala Arg Val Gly	Asp Thr Ser Ile Asp
405	410	415
Leu Leu Met Asn Asn Arg	Thr Trp Gln Val Ser	Arg Ser Trp Phe Asn
420	425	430
Arg His Ala Thr Gly Asn	Phe Thr Gln Leu His	Arg Leu Thr Pro Glu
435	440	445
Gly Lys Asp Ala Ile Gly	Thr Ala Ser Asp Ser	Lys Asp Met Ala Trp
450	455	460
Leu Asp Gln Gln Leu Ser	Ile Ala Leu Ser Gln	Pro Glu Thr His Ala
465	470	475
Arg Ile Trp Thr Ala Glu	Met Met Lys Arg Thr	Arg Glu Phe Gln Gln
485	490	495
Lys Met His Leu His Val	Asp Gly Ile Pro Gly	Glu Glu Thr Leu Met
500	505	510
Gln Leu Met Arg Val Thr	Asn Ser Thr Pro Gly	Val Leu Ile Gln Ala
515	520	525
Thr Arg Thr Thr Pro Asp	Ala Lys Met Gln Glu	Glu Asp Ser Leu Met
530	535	540
Ser Thr Ile Cys Leu Ala	Ala Gln Arg Ser Tyr	Thr Thr Gly Glu Ser
545	550	555
Val Trp Phe Ser Tyr Arg	Leu Pro Ser Leu Glu	Lys Arg Ile Arg Gln
565	570	575
Asn Ser Val Met Ala Gly	Arg Pro Leu Arg His	Ala Gly Cys Arg Pro
580	585	590
Val Tyr Ala Arg Leu Leu	Glu Pro Ala Pro Pro	Gly Thr 605
595	600	

<211> 180
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9235

```

Leu Ile Asn Lys Glu Ile Asn Met Arg Tyr Ser Ala Leu Thr Leu Leu
1           5           10           15
Val Pro Cys Ala Leu Val Leu Ser Ala Cys Thr Thr Pro Val Thr Pro
           20           25           30
Ala Phe Lys Asp Ile Gly Thr Arg Ser Gly Pro Cys Ile Glu Gly Gly
           35           40           45
Pro Asp Ala Val Ala Gln Gln Phe Tyr Asp Tyr Arg Ile Gln His Arg
           50           55           60
Gly Asn Asp Leu Thr Ala Leu Arg Pro Tyr Leu Ser Asp Asn Leu Ala
           65           70           75           80
Lys Leu Leu Thr Asp Ala Ser Arg Asp Pro Gln His Asn Ala Leu Leu
           85           90           95
Ser Ser Asp Pro Phe Ser Ser Arg Ala Thr Leu Pro Asp Ser Ala Asp
           100          105          110
Val Ala Ser Ala Ser Thr Ile Pro Asn Thr Asp Ala Arg Asn Ile Pro
           115          120          125
Leu Arg Val Lys Leu Thr Gln Gly Thr Gln Thr Trp Gln Asp Glu Val
           130          135          140
Leu Met Ile Arg Glu Gly Gln Cys Trp Ala Val Asp Asp Val Arg Tyr
           145          150          155          160
Ile Gly Gly Ser Val His Ala Pro Ala Gly Thr Leu Arg Gln Ser Ile
           165          170          175
Glu Asn Arg
180

```

<210> 9236
 <211> 225
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9236

```

Met Pro Arg Pro Ser Tyr Phe Lys Lys Ser His Leu Lys Ser Gly Ile
1           5           10           15
Thr Met Leu Ser Ile Tyr Gly Lys Lys Leu Arg Pro Gln Tyr Glu Met
           20           25           30
Glu Arg Ile Ile Ser Ala Thr Ala Gly Val Glu Glu Lys Thr Leu Lys
           35           40           45
Lys Trp Gln Lys Ile Ser Thr Thr Asp Ser Gly Tyr Ile His Val Ile
           50           55           60
Val Ser Gly Glu Val Glu Phe Arg Arg Glu Ser Asp Glu Leu Cys Met
           65           70           75           80
Phe Thr Val Thr Gly Gln Cys Leu Phe Gly Leu Ser Ser Met Tyr Tyr
           85           90           95
Asn Ala Thr His Met Tyr Gly Leu Val Arg Thr Asn Thr Val Val Arg
           100          105          110
Ser Ile Lys Lys Glu Val Phe Ala Gln Leu Met Thr Glu Lys Asn Leu
           115          120          125
Trp Pro Asp Leu Thr Lys Val Leu Ser Trp Tyr Ile Cys Val Met Ser
           130          135          140
Lys Arg Asp Asp Val Leu Val Ala Arg Ser Ala Tyr Ser Val Val Arg
           145          150          155          160
Glu Phe Leu Tyr Glu Ile Asn Asp Leu Thr Val His Gln Gln Arg Asp
           165          170          175
Ile Asn Val Tyr Asp Tyr Ile Gln Glu Tyr Thr Asn Leu Ala Arg Ser
           180          185          190
Thr Ile Ile Lys Ile Leu Ser Asp Leu Lys Lys Gly Gln Tyr Ile Val

```

195 200 205
 Val Glu Lys Gly Arg Leu Leu Asn Leu Thr Ala Leu Pro Glu Lys Tyr
 210 215 220

225

<210> 9237

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 9237

Lys Arg Ala Ala Glu Gly Asp Arg Arg Arg Asp Val Ser Gly Arg Ser
 1 5 10 15
 His Ala Arg His Arg Arg Ala Trp Gly Cys Ile Met Ala Phe Tyr
 20 25 30
 Ala Trp Thr Thr Ala Thr Asp Ala Ala Gly Lys Thr Gln Arg Gly Thr Leu
 35 40 45
 Gln Ala Glu Gly Gln Lys Gln Val Arg Gln Trp Leu Arg Glu Gln Lys
 50 55 60
 Leu Met Pro Val Ser Ile Thr Glu Thr Arg Glu Thr Ala Ala Gly Gly
 65 70 75 80
 Lys Ala Lys Thr Gly Val Lys Leu Ser Thr Pro Val Leu Ser Met Phe
 85 90 95
 Thr Arg Gln Leu Ser Thr Leu Val Asn Ala Ala Leu Pro Leu Glu Ser
 100 105 110
 Ala Leu Lys Ala Ile Ser Lys Gln Thr Glu Asp Lys Lys Leu Ala Ala
 115 120 125
 Met Val Val Glu Ile Arg Glu Lys Val Val Glu Gly His Thr Leu Phe
 130 135 140
 Asp Ala Phe Ser Gln Phe Pro Arg Thr Phe Asp Lys Leu Tyr Cys Thr
 145 150 155 160
 Leu Val Met Ala Gly Glu Lys Thr Gly His Leu Gly Asp Val Leu Glu
 165 170 175
 Lys Leu Ala Glu Tyr Asn Glu Gln Arg Gln Lys Met Lys Ser Lys Leu
 180 185 190
 Thr Gln Ala Met Val Tyr Pro Ile Thr Leu Thr Val Val Ala Ile Ala
 195 200 205
 Val Ile Ser Ile Leu Leu Val Ala Val Val Pro Gln Val Ile Glu Gln
 210 215 220
 Phe Thr His Met Lys Gln Gln Leu Pro Ile Thr Thr Arg Thr Leu Ile
 225 230 235 240
 Ala Val Ser Asp Phe Leu Gln Ala Trp Gly Ile Tyr Ile Val Gly Ile
 245 250 255
 Leu Gly Gly Gly Phe Ile Gly Phe Lys Thr Trp Leu Arg Asn Ala Lys
 260 265 270
 Asn Arg Phe Arg Trp His Ser Trp Leu Val Asn Gly Ser Pro Ile Lys
 275 280 285
 Lys Leu Val Cys Ala Ile Asn Ser Ala Arg Tyr Ile Arg Thr Leu Ser
 290 295 300
 Ile Leu Gln Ala Ser Ser Val Pro Leu Leu Glu Gly Met Tyr Ile Ala
 305 310 315 320
 Met Asp Gly Ile Glu Asn Arg Tyr Ala Arg Gln Val Leu Glu Gln Ala
 325 330 335
 Ala Asp Thr Val Arg Gln Gly Ala Ser Leu Tyr Ala Ala Leu Glu Gln
 340 345 350
 Ala Lys Leu Phe Pro Pro Thr Met Leu Tyr Met Ile Ala Ser Gly Glu
 355 360 365
 Glu Ser Gly Glu Leu Gly Asn Leu Met Asp Arg Ala Ala Glu Asn Gln
 370 375 380
 Glu Ser Ala Leu Gln His Arg Ile Thr Leu Thr Leu Ser Val Phe Glu

385 390 395 400
 Pro Ala Leu Val Val Ser Met Ala Thr Ile Val Leu Phe Ile Val Leu
 405 410 415
 Ser Ile Leu Gln Pro Leu Leu Gln Leu Asn Asn Met Val Gly
 420 425 430

<210> 9238

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 9238

Ile Met Ala Leu Lys Arg Lys Asn Leu Ala Arg Gln Ala Gly Phe Thr
 1 5 10 15
 Leu Leu Glu Leu Met Val Val Ile Val Ile Leu Gly Val Leu Ala Ser
 20 25 30
 Met Val Val Pro Asn Leu Met Gly Asn Lys Glu Lys Ala Asp Thr Gln
 35 40 45
 Lys Ala Thr Ser Asp Ile Val Ala Leu Glu Gly Ser Leu Asp Met Tyr
 50 55 60
 Lys Leu Asp Asn His Arg Tyr Pro Thr Thr Glu Gln Gly Leu Gln Ala
 65 70 75 80
 Leu Val Thr Lys Pro Glu Ile Ala Pro Ile Pro Asn Gly Tyr Arg Thr
 85 90 95
 Asp Gly Tyr Ile Arg Arg Leu Pro Gln Asp Pro Trp Gly Asn Asp Tyr
 100 105 110
 Leu Leu Val Ser Pro Gly Glu His Gly Ala Val Asp Val Phe Ser Ala
 115 120 125
 Gly Pro Asp Gly Glu Ala Asn Thr Ala Asp Asp Ile Thr Asn Trp Ser
 130 135 140
 Leu Asp Lys Lys Glu Lys
 145 150

<210> 9239

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 9239

Lys Thr Met Ala Asn Gly Asn Lys Lys Gln Lys Gly Met Thr Leu Leu
 1 5 10 15
 Glu Val Met Val Ala Leu Val Ile Phe Ser Thr Ala Ala Leu Ala Leu
 20 25 30
 Met Asn Ser Val Ser Leu Asn Val Arg Phe Thr His Gly Leu Ala Asp
 35 40 45
 Thr Leu Gln Ala Ser Trp Val Ala Glu Asn Gln Leu Ala Glu Ala Gln
 50 55 60
 Leu Thr Lys Thr Asp Phe Pro Asp Ala Glu Gln Gln Gly Thr Glu Ile
 65 70 75 80
 Met Gly Gly Arg Arg Trp Asn Trp Arg Lys Gln Arg Val Lys Thr Ala
 85 90 95
 Asp Asn Val Trp Ala Asn Thr Ile Arg Val Tyr Ala Glu Gly Asp Glu
 100 105 110
 Ser Gln Pro Val Ile Ser Leu His Ile Ile Pro Pro Gly Glu Ser Lys
 115 120 125

<210> 9240

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 9240

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Met Lys Glu Arg Ile Ala Gln Leu Lys Ala Arg Tyr Gln Asn Tyr Ser
1      5      10      15
Ala Arg Glu Lys Ile Ile Leu Lys Ile Cys Ala Val Ala Ile Val Gly
20      25      30
Ala Ala Val Tyr Tyr Thr Gly Val Ile Pro Leu Asp Asn Met Ile Lys
35      40      45
Asn Ser Lys Ser Thr Leu Lys Arg Gln Lys Glu Thr Leu Asn Trp Met
50      55      60
Arg Ser Glu Ile Asp Lys Asn His Leu Gln Ile Gln Leu Val Lys Thr
65      70      75      80
Asp Asn Pro Arg Thr Val Val Glu Asn Ser Ala His Glu Ile Asn Leu
85      90      95
Ser Leu Thr Asp Val Arg Gln Glu Gly Gln Thr Leu Ser Phe Val Val
100      105      110
Asn Arg Val Asn Val Tyr Glu Leu Lys Ser Trp Leu Arg Glu Ile Asn
115      120      125
Gln Thr Thr Gly Val Arg Leu Gln Lys Ile Asn Leu Thr Pro Val Asp
130      135      140
His Leu Ser Asp Val Lys Ala Gln Val Gln Leu Thr Trp Ala Lys Asn
145      150      155      160
Ala

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<210> 9241

<211> 907

<212> PRT

<213> Enterobacter cloacae

<400> 9241

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Ile Tyr Gln Glu Ile Lys Met Lys Phe Met Lys Pro Lys Tyr Leu Ala
1      5      10      15
Leu Phe Ile Ala Ala Ala Thr Ser Ser Ala Phe Ala Ala Ala Pro Gly
20      25      30
Ala Pro Thr Ile Gly Tyr Gly Asn Asp Lys Phe Ala Leu Val Glu Val
35      40      45
Asp Gln Ala Ala Gln Asp Tyr Asn Asn Leu Val Lys Val His Asn Asp
50      55      60
Gly Val Asp Val Lys Val Glu Trp Asn Val Trp Ser Gly Asp Ala Pro
65      70      75      80
Thr Ser Ala Lys Val Leu Leu Asp Gly Gln Thr Val Trp Thr Gly Ala
85      90      95
Ala Gly Ala Thr Gly Ser Ala Thr Phe Lys Val Lys Lys Gly Gly Arg
100      105      110
Tyr Gln Glu Gln Val Glu Val Cys Asn Ala Ser Gly Cys Ala Lys Ser
115      120      125
Ala Ser Lys Leu Ile Ile Val Ala Asp Thr Asp Gly Ser His Leu Leu
130      135      140
Pro Leu Asn Thr Ser Leu Gln Glu Asn Asn Lys Ala Phe Ala Lys His
145      150      155      160
Thr Asp Lys Val Val Ala Ala Tyr Phe Pro Glu Trp Gly Val Tyr Asp
165      170      175
Arg Asn Phe Pro Val Asp Lys Ile Pro Ala Ala Asn Leu Asn His Ile
180      185      190
Leu Tyr Gly Phe Ile Pro Ile Cys Gly Gly Asp Gly Ile Asn Asp Gly
195      200      205
Leu Lys Thr Ile Glu Gly Gly Asn Ser Phe Arg Val Leu Gln Asn Asp
210      215      220
Cys Lys Gly Arg Pro Asp Phe Thr Val Ala Ile His Asp Pro Trp Ala

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225 230 235 240
 Ala Leu Gln Lys Pro Gln Ala Gly Val Ser Asn Trp Asp Asp Pro Tyr
 245 250 255
 Lys Gly Asn Phe Gly Gln Leu Met Ala Leu Lys Lys Ala His Pro Gly
 260 265 270
 Leu Lys Val Leu Pro Ser Ile Gly Gly Trp Thr Leu Ser Asp Pro Phe
 275 280 285
 Phe His Met Gly Asp Pro Ala Ile Arg Ala Arg Phe Val Ser Ser Val
 290 295 300
 Lys Asp Phe Leu Gln Thr Trp Lys Phe Phe Asp Gly Val Asp Ile Asp
 305 310 315 320
 Trp Glu Phe Pro Gly Gly Gly Gly Val Thr Glu Asn Leu Gly Asn Pro
 325 330 335
 Gln Gln Asp Lys Ala Thr Tyr Thr Ala Leu Met His Asp Leu Arg Thr
 340 345 350
 Met Leu Asn Glu Leu Ser Ala Gln Thr Gly Arg Thr Tyr Glu Leu Thr
 355 360 365
 Ser Ala Ile Gly Ala Gly Arg Asp Lys Ile Glu Asp Val Asp Tyr Thr
 370 375 380
 Thr Ala Gln Gln Tyr Leu Asp His Ile Phe Leu Met Ser Tyr Asp Phe
 385 390 395 400
 Tyr Gly Gly Trp Ser Asn Thr Val Leu Gly His Gln Ala Ala Leu Arg
 405 410 415
 Ala Pro Ala Trp Arg Pro Asp Thr Asp Tyr Thr Thr Glu Asn Gly Val
 420 425 430
 Asn Ala Leu Leu Ala Gln Gly Val Gln Pro Gly Lys Ile Val Val Gly
 435 440 445
 Ala Gly Met Tyr Gly Arg Gly Trp Thr Gly Val His Gly Tyr Thr Gly
 450 455 460
 Asp Asn Pro Phe Thr Gly Thr Ala Thr Gly Met Val Lys Gly Thr Trp
 465 470 475 480
 Glu Pro Gly Val Val Asp Tyr Arg Gln Ile Val Asn Glu Tyr Lys Gly
 485 490 495
 Lys Pro Gly Trp Glu Tyr Gly Tyr Asp Thr Thr Ala Glu Ala Pro Tyr
 500 505 510
 Val Phe Asn Lys Ser Thr Gly Asp Leu Ile Ser Tyr Glu Asp Ala Arg
 515 520 525
 Ser Thr Thr Ala Lys Gly Lys Tyr Val Leu Ala Asn Lys Leu Gly Gly
 530 535 540
 Leu Phe Ala Trp Ser Ile Asp Ser Asp Thr Gly Asp Ile Leu Asn Ala
 545 550 555 560
 Met Asn Glu Ser Leu Leu Gly Gly Asp Ser Thr Pro Val Asp Pro Val
 565 570 575
 Val Thr Asn His Ala Pro Ile Ala Ser Ser Ala Asp Gln Asn Val Ser
 580 585 590
 Gly Pro Ala Thr Val Thr Leu Asp Gly Ser Ala Ser Ser Asp Pro Asp
 595 600 605
 Gly Asp Ala Ile Thr Tyr Lys Trp Thr Gln Val Ser Gly Pro Ser Val
 610 615 620
 Thr Ile Asn Asn Ser Thr Lys Ala Lys Ala Thr Phe Asn Val Ala Ala
 625 630 635 640
 Ala Thr Thr Asp Gln Thr Met Thr Phe Arg Leu Thr Val Thr Asp Ala
 645 650 655
 Lys Gly Leu Ser Asn Ala Ile Asp Val Gln Val Val Asn Lys Ala Pro
 660 665 670
 Lys Ala Asn Gln Ala Pro Val Leu Asn Pro Met Glu Ala Ile Thr Leu
 675 680 685
 Glu Ser Gly Glu Thr Tyr Ala Leu His Ala Gln Ala Ala Asp Pro Asp
 690 695 700
 Gly Asp Ala Leu Thr Tyr Ala Trp Ser Val Pro Ala Asp Met His Ala
 705 710 715 720

Thr Gly Thr Asp Ser Ala Asn Val Asn Ile Thr Ala Pro Glu Val Ser
 725 730 735
 Ser Thr Ser Thr Tyr Thr Leu Ser Val Val Val Ser Asp Gly Lys Thr
 740 745 750
 Ser Val Gln Ser Asn Val Gln Val Thr Val Asn Pro Lys Ala Ala Pro
 755 760 765
 Ala Pro Val Pro Ala Asp Glu Asp Thr Asn Pro Val Asp Asp Val Thr
 770 775 780
 Pro Pro Ala Asp Asp Val Thr Pro Pro Ser Asp Lys Gly Ser Cys Asp
 785 790 795 800
 Ala Pro Val Asp Ala Asn Ala Ser Lys Tyr Ala Ala Trp Glu Ser Ser
 805 810 815
 Lys Ile Tyr Asn Gly Gly Asp Thr Val Ser Phe Asp His Leu Val Trp
 820 825 830
 Lys Ala Lys Tyr Trp Thr Gln Gly Asn Gln Pro Gly Phe Gly Val Asp
 835 840 845
 Ala Trp Glu Leu Val Ser Asn Val Lys Met Asn Trp Arg Ser Asp Leu
 850 855 860
 Val Tyr Asn Gly Gly Asp Thr Thr Thr Tyr Glu Gly Asn Val Tyr Arg
 865 870 875 880
 Ala Lys Trp Trp Thr Arg Gly Asp Asn Pro Ala Asn Ser Asp Val Trp
 885 890 895
 Val Lys Glu Gly Ala Ser Thr Asp Cys Lys
 900 905

<210> 9242

<211> 563

<212> PRT

<213> Enterobacter cloacae

<400> 9242

Arg Lys Lys Trp Pro Asn Cys Gly Gly Cys Met Leu Leu Glu Arg Val
 1 5 10 15
 Glu Ile Val Gly Phe Arg Gly Ile Asn Arg Leu Ser Leu Gln Leu Glu
 20 25 30
 Gln Asn Asn Val Leu Ile Gly Glu Asn Ala Trp Gly Lys Ser Ser Leu
 35 40 45
 Leu Asp Ala Leu Thr Leu Leu Leu Ser Pro Glu Glu Asn Leu Tyr His
 50 55 60
 Phe Val His Asp Asp Phe Trp Phe Pro Pro Gly Asp Val Asn Gly Arg
 65 70 75 80
 Glu Lys His Leu His Ile Ile Leu Thr Phe Arg Glu Ser Glu Pro Gly
 85 90 95
 Arg His Arg Val Arg Arg Phe Arg Pro Met Ser Ala Cys Trp Val Pro
 100 105 110
 Cys Glu Asp Gly Phe Gln Arg Ile Phe Tyr Arg Leu Glu Gly Glu Met
 115 120 125
 Ala Gln Asn Asp Gly Val Leu Thr Leu Arg Glu Phe Leu Asp Glu Lys
 130 135 140
 Gly Asn Pro Ile Pro Leu Asp Asn Ile Asp Glu Leu Ala Arg His Leu
 145 150 155 160
 Ile Arg Leu Ser Pro Val Leu Arg Leu Arg Asp Ala Arg Phe Met Arg
 165 170 175
 Arg Ile Arg Asn Gly Thr Val Pro Asn Met Pro Glu Val Glu Val Thr
 180 185 190
 Ala Arg Glu Leu Asp Phe Leu Ala Arg Glu Leu Val Ser Arg Pro Gln
 195 200 205
 Asn Leu Thr Asp Gly Gln Ile Arg Gln Gly Leu Ser Ala Met Val Gln
 210 215 220
 Leu Leu Glu His Tyr Phe Ser Glu Gln Gly Thr Gly Gln Ala Arg His
 225 230 235 240

Arg Leu Met Arg Arg Arg Ser His Asp Glu Gln Arg Ser Trp Arg Tyr
 245 250 255
 Leu Asp Ile Ile Asn Arg Met Ile Asp Arg Pro Gly Gly Arg Thr His
 260 265 270
 Arg Val Ile Leu Leu Gly Leu Phe Ser Thr Leu Leu Gln Ala Lys Gly
 275 280 285
 Thr Val Arg Leu Asp Arg Asp Ala Arg Pro Leu Leu Leu Val Glu Asp
 290 295 300
 Pro Glu Thr Arg Leu His Pro Ile Met Leu Ser Val Ala Trp His Leu
 305 310 315 320
 Leu Asn Leu Leu Pro Leu Gln Arg Val Thr Thr Asn Ser Gly Glu
 325 330 335
 Leu Leu Ser Leu Thr Pro Val Glu Tyr Val Cys Arg Leu Val Arg Glu
 340 345 350
 Ser Ser Arg Val Thr Ala Tyr Arg Leu Gly Pro Gly Gly Leu Asn Ala
 355 360 365
 Glu Asp Gly Arg Arg Ile Ala Phe His Ile Arg Phe Asn Arg Ala Ser
 370 375 380
 Ser Leu Phe Ala Arg Cys Trp Leu Leu Val Glu Gly Glu Thr Glu Thr
 385 390 395 400
 Trp Val Ile Asn Glu Leu Ala Arg Gln Cys Gly His His Phe Asp Ala
 405 410 415
 Glu Gly Ile Lys Val Ile Glu Phe Ala Gln Ser Gly Leu Lys Pro Leu
 420 425 430
 Ile Lys Phe Ala Arg Arg Met Gly Ile Glu Trp His Val Leu Val Asp
 435 440 445
 Gly Asp Glu Ala Gly Lys Lys Tyr Ala Ala Thr Val Arg Ser Leu Leu
 450 455 460
 Asn Asn Asp Arg Glu Glu Glu Arg Glu His Leu Thr Ala Leu Pro Ala
 465 470 475 480
 Met Asp Met Glu His Phe Met Tyr Arg Gln Gly Phe Asp Asp Val Phe
 485 490 495
 His Arg Val Ala Met Ile Pro Val Asp Val Pro Met Asn Met Arg Arg
 500 505 510
 Val Ile Ala Lys Ala Ile His Arg Ser Ser Lys Pro Asp Leu Ala Ile
 515 520 525
 Glu Val Ala Thr Glu Ala Gly Arg Arg Gly Val Glu Ser Val Pro Thr
 530 535 540
 Leu Leu Arg Lys Met Phe Ser Arg Val Leu Trp Leu Ala Arg Gly Arg
 545 550 555 560
 Ala Asp

<210> 9243

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 9243

Arg Val Gln Ala Leu Asn Ser Asp Val His Arg Val Gln Ala Gly Val
 1 5 10 15
 Gly Lys Glu Tyr Arg Glu Thr Ile Ile Met Val Asp Ser Lys Lys Arg
 20 25 30
 Pro Gly Lys Asp Leu Asp Arg Ile Asp Arg Asn Ile Leu Asn Glu Leu
 35 40 45
 Gln Lys Asp Gly Arg Ile Ser Asn Leu Glu Leu Ser Tyr Leu His Ser
 50 55 60
 Arg Gly Asn Thr Arg Trp
 65 70

<210> 9244

<211> 303
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9244
 Tyr Arg Leu Arg Asn Gly Arg Glu Arg Cys Gln His Ala Asp Gly Glu
 1 5 10 15
 Arg Lys Arg Tyr Gly Gly Glu Asn Pro Ser Met Lys Arg Ser Leu Ser
 20 25 30
 Thr Leu Leu Leu Ala Ile Leu Leu Ala Gly Cys Ala Ser Glu Glu Gly
 35 40 45
 Ile Val Asp Lys Gly Ala Tyr Glu Leu Asp Thr Arg His Gln Ala Gln
 50 55 60
 Ala Ala Tyr Pro Arg Ile Lys Val Leu Val Ile His Tyr Thr Ala Asp
 65 70 75 80
 Asp Phe Asp Thr Ser Leu Ala Thr Leu Thr Asp Lys Asn Val Ser Ser
 85 90 95
 His Tyr Leu Ile Pro Ala Lys Pro Pro Ala Pro Gln Gly Lys Pro Arg
 100 105 110
 Ile Trp Gln Leu Val Pro Glu Ser Glu Leu Ala Trp His Ala Gly Ile
 115 120 125
 Ser Phe Trp Arg Gly Thr Asn Arg Ile Asn Asp Thr Ser Val Gly Ile
 130 135 140
 Glu Leu Glu Asn Arg Gly Trp Arg Gln Thr Asp Gly Val Lys Thr Phe
 145 150 155 160
 Thr Pro Phe Glu Pro Gly Gln Ile Ala Ala Leu Ile Pro Leu Ala Arg
 165 170 175
 Asp Ile Ile Ala Arg Tyr Asp Ile Lys Pro Gln Asn Val Val Ala His
 180 185 190
 Ser Asp Ile Ala Pro Gln Arg Lys Asp Asp Pro Gly Pro Met Phe Pro
 195 200 205
 Trp Arg Glu Leu Ala Gln Gln Gly Ile Gly Ala Trp Pro Asp Pro Ala
 210 215 220
 Arg Val Asn Phe Tyr Ile Asn Gly Arg Pro His Tyr Gln Gln Val Asp
 225 230 235 240
 Thr Ala Ala Leu Leu Asp Leu Leu Ala Arg Tyr Gly Tyr Glu Val Pro
 245 250 255
 Glu Asn Ser Thr Pro Ala Gln Gln Lys Arg Ile Ile Ile Val Phe Gln
 260 265 270
 Met His Phe Arg Pro Gln Leu Trp Asn Gly Val Ala Asp Val Glu Thr
 275 280 285
 Met Ala Ile Ala Glu Ala Leu Leu Glu Lys Tyr Gly Gln Gly
 290 295 300

<210> 9245
 <211> 259
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9245
 Lys Met Arg Phe Ser Phe Leu Ser Arg Trp Ile Thr Pro Cys Ile Met
 1 5 10 15
 Phe Val Leu Leu Ile Phe Ser Gly Gln Gln Gly Tyr Leu Thr Leu Lys
 20 25 30
 Asp Tyr Lys Lys Val Thr Asn Lys Leu Ala Lys Ala Asp Leu Gln Pro
 35 40 45
 Pro Lys Lys Thr Arg Glu Asp Lys Pro Phe Thr Leu Phe Thr Ala Ala
 50 55 60
 Val Arg Gln Glu Asn Leu Ala Asp Ala Ala Lys Ala Pro Leu Ala Ala
 65 70 75 80
 Glu Ile Glu Gly Ile Val Arg Ser Asp Asp Ala Trp Leu Ser Phe Ala

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<210> 9246
<211> 500
<212> PRT
<213> Enterobacter cloacae
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Arg	Val			Arg	Arg	Asp	Thr	Val	Asp	Glu	Leu	Ser	Lys	Ser	Leu	Cys
1					5				10						15	
Ser	Ser	Asn	Tyr	Ala	Lys	Asp	Asn	Gly	Val	Leu	Leu	Tyr	Asn	Asn	Asp	
		20					25						30			
Val	Tyr	Ile	Arg	Glu	Asp	Thr	Pro	Ala	Leu	Ala	Leu	Leu	Glu	Val	Arg	
		35				40						45				
Arg	Val	Leu	Gly	Arg	Ala	Phe	Val	Pro	Ile	Thr	Leu	Ala	Pro	Glu	Ala	
	50					55					60					
Phe	Asp	Glu	Met	Leu	Ala	Lys	Ile	Trp	Gln	Gln	Ser	Ser	Gly	Val	Ser	
	65				70					75					80	
Gln	Gln	Leu	Val	Asp	Asp	Met	Asp	Ala	Asp	Ile	Asp	Leu	Met	Ala	Leu	
				85					90					95		
Thr	Glu	Glu	Ile	Pro	Asp	Asn	Glu	Asp	Leu	Leu	Asp	Asn	Asp	Glu	Asn	
		100						105					110			
Ser	Pro	Val	Ile	Arg	Leu	Ile	Asn	Ala	Ile	Leu	Gly	Glu	Ala	Val	Lys	
	115						120					125				
Asp	Gly	Ala	Ser	Asp	Ile	His	Ile	Glu	Thr	Phe	Glu	Arg	Thr	Leu	Ser	
	130					135				140						
Ile	Arg	Phe	Arg	Val	Asp	Gly	Val	Leu	Arg	Pro	Val	Leu	Gln	Pro	Ala	
	145				150					155					160	
Arg	Lys	Leu	Ala	Pro	Leu	Leu	Val	Ser	Arg	Ile	Lys	Val	Met	Ser	Lys	
				165					170					175		
Leu	Asp	Ile	Ala	Glu	Lys	Arg	Leu	Pro	Gln	Asp	Gly	Arg	Ile	Ser	Leu	
		180						185						190		
Arg	Ile	Gly	Arg	Lys	Ala	Ile	Asp	Val	Arg	Val	Ser	Thr	Ile	Pro	Ser	
	195											205				
Gln	Tyr	Gly	Glu	Arg	Val	Val	Met	Arg	Leu	Leu	Asp	Lys	Ser	Asn	Leu	
	210					215					220					
Lys	Pro	Asp	Ile	Asn	Lys	Leu	Gly	Leu	Ile	Asp	Glu	Glu	Leu	Glu	Lys	
	225				230					235					240	
Leu	Lys	Gly	Leu	Ile	Asp	Arg	Pro	His	Gly	Ile	Ile	Leu	Val	Thr	Gly	

245 250 255
 Pro Thr Gly Ser Gly Lys Ser Thr Thr Leu Tyr Ala Ile Leu Ser Ala
 260 265 270
 Leu Asn Gly His Glu Arg Asn Ile Leu Thr Val Glu Asp Pro Ile Glu
 275 280 285
 Tyr Glu Leu Glu Gly Val Gly Gln Thr Gln Val Asn Pro Arg Val Asp
 290 295 300
 Met Thr Phe Ala Arg Gly Leu Arg Ala Ile Leu Arg Gln Asp Pro Asp
 305 310 315 320
 Val Val Met Ile Gly Glu Ile Arg Asp Gly Glu Thr Ala Gln Ile Ala
 325 330 335
 Val Gln Ala Ser Leu Thr Gly His Leu Val Met Ser Thr Leu His Thr
 340 345 350
 Asn Ser Ala Ala Gly Ala Ile Thr Arg Leu Arg Asp Met Gly Leu Glu
 355 360 365
 Ser Phe Leu Ile Gly Ser Ser Leu Leu Gly Val Ile Ala Gln Arg Leu
 370 375 380
 Val Arg Arg Leu Cys Thr His Cys Arg Thr Thr Ser Pro Leu Asp Ala
 385 390 395 400
 Asn Glu Lys Ala Leu Phe Ser Phe Met Asp Ala Pro Pro Glu Ala Ile
 405 410 415
 Tyr Arg Ala Val Gly Cys Glu His Cys Arg Gln Ser Gly Tyr Gln Gly
 420 425 430
 Arg Ala Gly Ile His Glu Phe Leu Val Val Asp Ser Ala Met Arg Arg
 435 440 445
 Ala Ile His Glu Asp Lys Asp Glu Met Ser Leu Glu Thr Gln Leu Phe
 450 455 460
 Lys Gln Ala Tyr Ser Leu Arg Glu Asn Gly Leu Leu Lys Val Ile Gly
 465 470 475 480
 Gly Val Thr Ser Leu Glu Glu Val Met Arg Val Thr Ala Glu Arg Gly
 485 490 495
 Gly Asp Ala
 500

<210> 9247

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 9247

Tyr Ala Gly Gly Gly Arg Cys Arg Gly Ala Arg Glu Ser Arg Arg Arg
 1 5 10 15
 Ala Trp Asp Ala Pro Gly Cys Ser Pro Cys Ala Cys Pro Phe Ala Gly
 20 25 30
 Asp Gln Thr Met Lys Arg Ile Arg Gln Gln Gly Val Ala Leu Leu
 35 40 45
 Val Val Leu Ile Leu Leu Val Met Met Ser Ala Leu Ala Ala Lys Ile
 50 55 60
 Ser Gln Gln Phe Cys Arg Asn Leu Gln Lys Thr His Tyr Gln Val Ser
 65 70 75 80
 Gln Gln Gln Leu Arg Trp Ala Met Gln Ala Gln Glu Lys Val Val Lys
 85 90 95
 Asp Arg Leu Gln Thr Asp Ala Ser Gly Glu Ser Lys Pro Leu Ala Leu
 100 105 110
 Asp Gly Asp Trp His Gln Pro Leu Glu Thr Gln Gly Glu Asp Tyr Thr
 115 120 125
 Val Val Ser Gln Val Glu Asp Ala Gln Asp Cys Phe Asn Val Asn Asn
 130 135 140
 Leu Leu Thr Ala Asp Ile Ala Pro Gln Gly Gln Ser Ala Pro Ala Val
 145 150 155 160
 Ala Glu Thr Pro Arg Lys Ala Arg Ile Val Glu Gln Leu Leu Thr Glu

165 170 175
 Ser Gly Leu Ser Pro Gly Thr Ala Glu Ala Val Tyr Phe Gln Leu Val
 180 185 190
 Asp Tyr Leu Asp Gly Asp Ser Thr Thr Ala Lys Glu Gly Ala Glu Ser
 195 200 205
 Asp Ala Trp Ala Gly Val Val Pro Ala Arg Gln Pro Ala Asn Gln Met
 210 215 220
 Met Arg Ser Ile Ala Glu Ile Lys Leu Leu Pro Ala Phe Pro Val Thr
 225 230 235 240
 Ala Tyr Pro Lys Val Ser Lys Leu Leu Cys Ala Leu Pro Asp Ala Ala
 245 250 255
 Ser Lys Val Asp Val Asn Thr Leu Gln Pro Glu Gln Ala Ala Val Leu
 260 265 270
 Ala Ala Met Phe Pro Gly Lys Leu Thr Gln Asp Asp Ala Val Arg Leu
 275 280 285
 Leu Asp Ser Arg Pro Glu Ser Gly Trp Glu Asn Met Glu Ala Phe Ser
 290 295 300
 Lys Ala Leu Glu Gln Ala Phe Pro Gln Leu Lys Asp Asp Leu Gln Gln
 305 310 315 320
 Val Val Asp Gln Phe Ser Ile Asn Ser Arg Tyr Phe Arg Val Asn Tyr
 325 330 335
 Thr Gly Asn Thr Asp Glu Leu Thr Leu Arg Val Val Ser Gln Leu Gln
 340 345 350
 Val Asn Asn Glu Ala Gly Glu Ile Val Thr Trp Gln Arg Arg Tyr Arg
 355 360 365
 Met Ile Glu
 370

<210> 9248

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9248

Asn Val Met Lys Gln Val Leu Phe Val Arg Pro Asp Ser Arg Glu Gly
 1 5 10 15
 Gly Lys Ile Met Trp Cys Glu Ser Gly Ser Glu Arg Val Glu Val Val
 20 25 30
 Asp Ser Leu Glu Met Leu Ser Glu His Pro Leu Ala Thr Arg Val Cys
 35 40 45
 Leu Leu Leu Pro Ala Ser Asp Met Ile Phe Arg His Phe Arg Leu Pro
 50 55 60
 Lys Lys Val Ala Ser Gln Gly Met Ala Phe Ser Trp Met Ala Glu Glu
 65 70 75 80
 Thr Leu Ile Gly Asp Val Asp Asn Leu His Trp Thr Val Leu His Lys
 85 90 95
 Lys Gly Ala Asp Val Asp Ala Val Ala Ile Asp Ala Asp Arg Leu Arg
 100 105 110
 Ala Thr Leu Thr Arg Cys Gln Glu Ala Gly Leu Asn Val Ile Gln Ala
 115 120 125
 Leu Pro Asp Ala Trp Leu Leu Pro Val Thr Ala Gly Ser Thr Leu
 130 135 140
 Val Ala Gln Asp Asp Gly Tyr Trp Leu Arg Leu Ser Pro His Val Ala
 145 150 155 160
 Gly Glu Met Glu Ala Thr Leu Leu Pro Leu Leu Met Gln Lys Ala Gly
 165 170 175
 Val Gly Glu Val Trp Cys Tyr Gly Asp Ala Pro Ala Lys Val His Val
 180 185 190
 Asp Val Gln His Ala Trp Gln His Pro Leu Ala Leu Ile Gln Pro Gln
 195 200 205
 Trp Gln Thr Cys Arg Val Asn Leu Leu His Gly Glu Phe Ser Leu Lys

210	215	220
Ala Gly His Gly Arg	Ala Lys Arg Met Lys	Ala Ala Met Val Ala
225	230	235
Ala Gly Val Leu Ser Val Gly Leu Leu	Leu Gly Pro Arg Ile Ala Met	240
245	250	255
Ala Trp Met Leu Val Gln Gln Glu Asn Arg Val Gln Gln Glu Ile Val	260	265
265	270	275
Gln Val Tyr Gln His His Phe Pro Ser Met Arg Gln Gln Thr Asn Ile	280	285
285	290	295
Lys Tyr His Phe Gly Gln Ser Leu Lys Lys Gln Ser Lys Gly Phe Phe	300	305
310	315	320
Leu Gln Leu Glu Glu Leu Glu Lys Ala Arg Gln Ser Val Pro Ala Met	325	330
330	335	340
Glu Ile Asp Leu Leu Glu Tyr Asp Ala Gln Gln Asn Thr Leu Thr Leu	345	350
350	355	360
Ser Val Ser Ala Gln Asn Gln Pro Ala Leu Gln Ala Phe Val Asn Gln	365	370
370	375	380
Thr Ser Glu Asn Phe Asp Phe Thr Leu Gln Pro Val Ser Thr Thr Glu		
385	390	395
Pro Tyr Thr Ala Met Ile Ala Gly Lys His Lys		
400	405	410

<210> 9249

<211> 615

<212> PRT

<213> Enterobacter cloacae

<400> 9249

Phe Glu Thr Asn Arg Lys Thr Glu Met Asn Lys Arg Thr Leu Leu Ser	1	5	10	15
Val Leu Ile Ala Gly Ala Cys Val Ala Pro Phe Met Ala Gln Ala Ala	20	25	30	35
Asn Leu Lys Glu Thr Ser Ser Glu Pro Tyr Thr Ile Lys Ala Ser Asp	40	45	50	55
Leu Ala Lys Lys Glu Lys Glu Leu Thr Asp Phe Pro Leu Met Ala Ser	60	65	70	75
Val Lys Glu Thr Ile Gln Thr Leu Asp Asn Ala Gln Val Glu Leu Ile	80	85	90	95
Glu Pro Gly Arg Ala Ala Asn Pro Asp Asn Val Lys Arg Val Glu Gly	100	105	110	115
Ile Val Lys Ala Ser Asp Trp Glu Tyr Leu Phe Pro Leu Arg Ala Gln	120	125	130	135
Ala Tyr Thr Tyr Ser Asn Phe Leu Lys Ala Val Gly Lys Phe Pro Ala	140	145	150	155
Leu Cys Lys Thr Tyr Asn Asp Gly Arg Asp Ser Asp Ala Ile Cys Arg	160	165	170	175
Lys Glu Leu Ala Thr Met Phe Ala His Phe Ala Gln Glu Thr Gly Gly	180	185	190	195
His Glu Ser Trp Arg Pro Glu Ala Glu Trp Arg Gln Ala Leu Val His	200	205	210	215
Val Arg Glu Met Gly Trp Ser Glu Gly Gln Lys Gly Tyr Asn Gly	220	225	230	235
Glu Cys Asn Pro Asp Val Trp Gln Gly Gln Thr Trp Pro Cys Gly Lys	240	245	250	255
Asp Lys Asp Gly Asp Phe Leu Ser Tyr Phe Gly Arg Gly Ala Lys Gln	260	265	270	275
Leu Ser Tyr Asn Tyr Asn Tyr Gly Pro Phe Ser Glu Ala Met Tyr Gly	280	285	290	295
Asp Val Arg Thr Leu Leu Asp Lys Pro Glu Leu Val Ala Asp Thr Trp	300	305	310	315
Leu Asn Leu Ala Ser Ala Ile Phe Phe Phe Ala Tyr Pro Gln Pro Pro	320	325	330	335

260 265 270
 Lys Pro Ser Met Leu Gln Val Ile Asp Gly Thr Trp Gln Pro Asn Asp
 275 280 285
 His Asp Lys Ala Asn Gly Leu Val Pro Gly Phe Gly Val Thr Thr Gln
 290 295 300
 Ile Ile Asn Gly Gly Val Glu Cys Gly Gly Pro Thr Glu Ile Ala Gln
 305 310 315 320
 Ser Gln Asn Arg Ile Lys Tyr Tyr Lys Glu Phe Ala Asn Tyr Leu Lys
 325 330 335
 Val Pro Val Pro Ala Asn Glu Val Leu Gly Cys Ala Asn Met Lys Gln
 340 345 350
 Phe Asp Glu Gly Gly Ala Gly Ala Leu Lys Ile Tyr Trp Glu Gln Asp
 355 360 365
 Trp Gly Trp Ser Ala Asp Thr Pro Asp Gly Lys Thr Tyr Ser Cys Gln
 370 375 380
 Leu Val Gly Tyr Gln Thr Pro Phe Ser Ala Phe Lys Glu Gly Asp Tyr
 385 390 395 400
 Ser Lys Cys Val Gln Lys Phe Phe Asn Val Lys Ile Val Asn Asp Asp
 405 410 415
 Gly Ser Ser Val Thr Pro Asp Glu Thr Pro Val Thr Pro Thr Pro Thr
 420 425 430
 Pro Ser Gly Asp Glu Thr Pro Ala Pro Thr Pro Thr Pro Asp Glu Thr
 435 440 445
 Pro Val Glu Pro Val Val Val Asn His Ala Pro Val Ala Gln Ile Ala
 450 455 460
 Gly Pro Ile Gly Ala Val Glu Ala Gly Ala Gln Val Ser Leu Ser Ala
 465 470 475 480
 Glu Gly Ser Thr Asp Pro Asp Gly Asn Lys Leu Thr Tyr Thr Trp Arg
 485 490 495
 Ser Gln Asp Gly Gln Thr Val Thr Gly Gln Asp Lys Ala Val Val Thr
 500 505 510
 Phe Thr Ala Pro Glu Ser Ala Thr Ala Gln Gln Tyr Glu Val Ser Leu
 515 520 525
 Thr Val Ser Asp Gly Glu Leu Ser Ser Thr Thr Ser Tyr Leu Leu Asn
 530 535 540
 Val Lys Ala Lys Ala Ala Thr Pro Ser Gly Glu Asp Thr Ser Tyr Pro
 545 550 555 560
 Ala Trp Ser Ala Asn Ser Lys Tyr Asn Ala Gly Asp Ile Val Asn Asn
 565 570 575
 His Gly Lys Leu Phe Gln Cys Lys Pro Phe Pro Tyr Ser Gly Trp Cys
 580 585 590
 Asn Asn Ser Pro Thr Tyr Tyr Glu Pro Gly Ala Gly Leu Ala Trp Ala
 595 600 605
 Glu Ala Trp Thr Ala Leu
 610 615

<210> 9250

<211> 660

<212> PRT

<213> Enterobacter cloacae

<400> 9250

Arg Ser Gly His Gln Arg Asn Pro Ala Arg Ser Arg Ala Met Thr Ala
 1 5 10 15
 Leu Leu Glu Leu Asn Asp Ile Arg Arg Ser Tyr Pro Ser Gly Asp Gly
 20 25 30
 Pro Val Glu Val Leu Lys Gly Ile Ser Leu Arg Val Glu Ala Gly Glu
 35 40 45
 Met Val Ala Ile Val Gly Ala Ser Gly Ser Gly Lys Ser Thr Leu Met
 50 55 60
 Asn Ile Leu Gly Cys Leu Asp Lys Pro Thr Ser Gly Thr Tyr Arg Val

65					70					75				80
Ala	Gly	Thr	Asp	Val	Ser	Thr	Leu	Asp	Gly	Asp	Ala	Leu	Ala	Lys Leu
				85					90					95
Arg	Arg	Glu	His	Phe	Gly	Phe	Ile	Phe	Gln	Arg	Tyr	His	Leu	Leu Ser
			100					105					110	
His	Leu	Ser	Ala	Ala	Gln	Asn	Val	Glu	Val	Pro	Ala	Val	Tyr	Ala Gly
			115				120					125		
Val	Glu	Arg	Lys	Lys	Arg	Leu	Glu	Arg	Ala	Lys	Ala	Leu	Leu	Thr Arg
			130				135				140			
Leu	Gly	Leu	Ala	Glu	Val	Asp	Tyr	Gln	Pro	Ser	Gln	Leu	Ser	Gly
145				150					155					160
Gly	Gln	Gln	Gln	Arg	Val	Ser	Ile	Ala	Arg	Ala	Leu	Met	Asn	Gly Gly
				165					170					175
Gln	Val	Ile	Leu	Ala	Asp	Glu	Pro	Thr	Gly	Ala	Leu	Asp	Ser	His Ser
			180					185				190		
Gly	Glu	Glu	Val	Met	Ala	Ile	Leu	His	Gln	Leu	Arg	Asp	Gln	Gly His
			195				200					205		
Thr	Val	Ile	Ile	Val	Thr	His	Asp	Pro	Gln	Val	Ala	Ala	Gln	Ala Glu
			210				215				220			
Arg	Ile	Ile	Glu	Ile	His	Asp	Gly	Glu	Leu	Val	Ser	Asn	Pro	Pro Pro
225				230						235				240
Arg	Gln	Ser	Arg	Ala	Ala	Ala	Lys	Glu	Ala	Leu	Pro	Val	Ser	Thr
			245					250					255	
Gly	Trp	Gly	Gln	Phe	Ser	Ser	Gly	Phe	Arg	Glu	Ala	Leu	Thr	Met Ala
			260				265					270		
Trp	Leu	Ala	Met	Ala	Ala	Asn	Lys	Met	Arg	Thr	Leu	Leu	Thr	Met Leu
			275				280					285		
Gly	Ile	Ile	Ile	Gly	Ile	Ala	Ser	Val	Val	Ser	Ile	Val	Val	Val Gly
			290				295				300			
Asp	Ala	Ala	Lys	Gln	Leu	Val	Leu	Ala	Asp	Ile	Arg	Ala	Ile	Gly Thr
305				310						315				320
Asn	Thr	Ile	Asp	Val	Tyr	Pro	Gly	Lys	Asp	Phe	Gly	Asp	Asp	Glu Pro
			325						330					335
Gln	Tyr	Gln	Gln	Ala	Leu	Lys	Tyr	Asp	Asp	Leu	Ala	Ala	Ile	Gln Lys
			340					345					350	
Gln	Pro	Trp	Val	Asn	Ser	Ala	Thr	Pro	Ala	Val	Ser	Gln	Asn	Leu Arg
			355				360					365		
Leu	Arg	Tyr	Gly	Asn	Ile	Asp	Val	Ala	Ala	Ser	Ala	Asn	Gly	Val Ser
			370			375				380				
Gly	Asp	Tyr	Phe	Asn	Val	Tyr	Gly	Met	Thr	Phe	Ser	Glu	Gly	Ala Thr
385				390						395				400
Phe	Asn	Ala	Glu	Gln	Leu	Ala	Gly	Arg	Ala	Gln	Val	Val	Val	Leu Asp
			405					410						415
Ala	Asn	Ser	Arg	Arg	Gln	Leu	Phe	Pro	Asn	Lys	Thr	Arg	Val	Val Gly
			420					425				430		
Glu	Val	Ile	Leu	Val	Gly	Asn	Met	Pro	Ala	Thr	Val	Ile	Gly	Val Ala
			435				440					445		
Glu	Glu	Lys	Gln	Ser	Met	Phe	Gly	Ser	Ser	Lys	Ile	Leu	Arg	Val Trp
			450			455				460				
Leu	Pro	Tyr	Ser	Thr	Ile	Ser	Gly	Arg	Ile	Met	Gly	Gln	Ser	Trp Leu
465				470						475				480
Asn	Ser	Ile	Thr	Val	Arg	Val	Lys	Glu	Gly	Tyr	Asp	Ser	Ala	Leu Ala
			485						490					495
Glu	Gln	Gln	Leu	Glu	Arg	Leu	Leu	Thr	Leu	Arg	His	Gly	Lys	Lys Asp
			500					505				510		
Phe	Phe	Thr	Trp	Asn	Met	Asp	Gly	Leu	Lys	Thr	Ala	Glu	Lys	Thr
			515				520				525			
Thr	Arg	Thr	Leu	Gln	Leu	Phe	Leu	Thr	Leu	Val	Ala	Val	Ile	Ser Leu
			530			535				540				
Val	Val	Gly	Gly	Ile	Gly	Val	Met	Asn	Ile	Met	Leu	Val	Ser	Val Thr
545				550						555				560

Glu Arg Thr Arg Glu Ile Gly Ile Arg Met Ala Val Gly Ala Arg Ala
 565 570 575
 Ser Asp Val Leu Gln Gln Phe Leu Ile Glu Ala Val Leu Val Cys Leu
 580 585 590
 Val Gly Gly Ala Met Gly Ile Ala Leu Ser Met Met Ile Ala Phe Ala
 595 600 605
 Leu Gln Leu Phe Leu Pro Gly Trp Glu Ile Gly Phe Ser Pro Met Ala
 610 615 620
 Ile Leu Thr Ala Phe Leu Cys Ser Thr Phe Thr Gly Ile Leu Phe Gly
 625 630 635 640
 Trp Leu Pro Ala Arg Asn Ala Ala Arg Leu Asp Pro Val Asp Ala Leu
 645 650 655
 Ala Arg Glu
 660

<210> 9251
 <211> 113
 <212> PRT
 <213> Enterobacter cloacae

<400> 9251
 Ile Arg Arg Glu Ser Met Gln Phe Ser Thr Thr Pro Thr Leu Glu Gly
 1 5 10 15
 Gln Pro Ile Thr Glu Tyr Cys Gly Val Val Thr Gly Glu Ala Ile Leu
 20 25 30
 Gly Ala Asn Ile Phe Arg Asp Phe Phe Ala Gly Ile Arg Asp Ile Val
 35 40 45
 Gly Gly Arg Ser Gly Ala Tyr Glu Lys Glu Leu Arg Lys Ala Arg Asp
 50 55 60
 Ile Ala Phe Lys Glu Leu Gly Glu Gln Ala Lys Ala Leu Gly Ala Asp
 65 70 75
 Ala Val Val Gly Ile Asp Ile Asp Tyr Glu Thr Val Gly Lys Asp Ala
 85 90 95
 Ser Met Leu Met Val Ser Val Ser Gly Thr Ala Val Lys Thr Arg Arg
 100 105 110

<210> 9252
 <211> 648
 <212> PRT
 <213> Enterobacter cloacae

<400> 9252
 Thr Ile Asn Lys Cys Ala Asp Met Lys Lys Phe Pro Trp Ala Cys Val
 1 5 10 15
 Ala Leu Thr Ala Leu Ser Leu Tyr Ser Ser Ser Leu Leu Ala Ala Asn
 20 25 30
 Phe Ser Ala Ser Phe Lys Asn Thr Asp Ile Arg Glu Phe Ile Asp Thr
 35 40 45
 Val Gly Arg Asn Leu Asn Lys Thr Ile Leu Val Asp Pro Ser Val Gln
 50 55 60
 Gly Thr Val Ser Val Arg Thr Tyr Asn Val Leu Thr Glu Asp Glu Tyr
 65 70 75 80
 Tyr Gln Phe Phe Leu Ser Val Leu Asp Leu Tyr Gly Leu Ser Val Ile
 85 90 95
 Pro Leu Asp Asn Gly Met Val Lys Val Val Arg Ser Ser Val Ala Arg
 100 105 110
 Thr Ala Gly Ala Pro Leu Ala Asp Ser Lys Asn Pro Gly Lys Gly Asp
 115 120 125
 Glu Ile Ile Thr Arg Val Val Arg Met Glu Asn Val Pro Val Arg Glu

130		135		140	
Leu Ala Pro Leu Leu Arg	Gln Leu Asn Asp Ala Thr Gly Ile Gly Asn				
145	150	155	160		
Val Val His Phe Glu Pro Ser Asn Val Leu Leu Thr Gly Lys Ala					
	165	170	175		
Ser Val Val Asn Arg Leu Val Asp Leu Val Gln Arg Val Asp Lys Asp					
	180	185	190		
Gly Ile Gln Arg Arg Glu Ile Ile Pro Leu Arg Phe Ala Ser Ala Lys					
	195	200	205		
Glu Leu Ser Asp Met Leu Asn Asn Leu Asn Asn Glu Glu Gln Lys Gly					
	210	215	220		
Gln Asn Ala Pro Gln Leu Ala Thr Lys Val Val Ala Asp Asp Glu Thr					
	225	230	235	240	
Asn Ser Leu Val Ile Ser Gly Ser Glu Asp Ala Arg Ala Arg Thr Arg					
	245	250	255		
Ser Leu Ile His Gln Leu Asp Arg Glu Gln Asn Asn Glu Gly Asn Thr					
	260	265	270		
Arg Val Phe Tyr Leu Lys Tyr Ala Ser Ala Thr Lys Val Val Pro Val					
	275	280	285		
Leu Thr Gly Ile Gly Glu Gln Leu Lys Asp Lys Pro Gly Ala Ala Lys					
	290	295	300		
Ala Lys Thr Ala Ser Ala Ser Thr Asp Leu Asn Ile Thr Ala Asp Glu					
	305	310	315	320	
Ser Thr Asn Ser Leu Val Ile Thr Ala Gln Pro Asn Val Met Asn Ser					
	325	330	335		
Leu Glu Lys Val Ile Asp Lys Leu Asp Ile Arg Arg Pro Gln Val Leu					
	340	345	350		
Val Glu Ala Ile Ile Ala Glu Val Gln Asp Gly Asn Gly Leu Asp Leu					
	355	360	365		
Gly Val Gln Trp Thr Ser Lys His Gly Gly Val Gln Phe Gly Ser Thr					
	370	375	380		
Gly Leu Pro Ile Ser Gln Ile Lys Asn Gly Thr Met Lys Gly Ala Ser					
	385	390	395	400	
Phe Thr Gly Leu Ala Thr Gly Phe Phe Asn Gly Asp Phe Gly Ala Leu					
	405	410	415		
Val Thr Ala Leu Ser Thr Asn Gly Lys Asn Asp Ile Leu Ser Thr Pro					
	420	425	430		
Ser Val Val Thr Leu Asp Asn Lys Glu Ala Ser Phe Asn Val Gly Gln					
	435	440	445		
Asp Val Pro Val Leu Ser Gly Ser Gln Thr Thr Ser Gly Asp Asn Val					
	450	455	460		
Phe Asn Ser Val Glu Arg Lys Thr Val Gly Thr Lys Leu Lys Ile Val					
	465	470	475	480	
Pro Gln Ile Asn Asp Gly Asp Met Ile His Leu Lys Ile Glu Gln Glu					
	485	490	495		
Val Ser Ser Val Asp Asn Ser Ala Thr Glu Asp Ser Ser Leu Gly Pro					
	500	505	510		
Thr Phe Asn Thr Arg Thr Ile Asn Asn Glu Val Met Val His Ser Gly					
	515	520	525		
Gln Thr Val Val Leu Gly Gly Leu Met Glu Asn Val Thr Lys Gln Ser					
	530	535	540		
Val Ser Lys Val Pro Leu Leu Gly Asp Ile Pro Leu Val Gly Gln Leu					
	545	550	555	560	
Phe Arg Tyr Thr Ser Gln Asp Thr Ser Lys Arg Asn Leu Met Val Phe					
	565	570	575		
Ile His Thr Thr Val Leu Arg Asp Asp Asn Tyr Ser Ala Ala Ser					
	580	585	590		
Lys Glu Lys Tyr Asp Gln Ile Arg Val Arg Gln Met Gln Arg Val Glu					
	595	600	605		
Glu Lys Lys Leu Gly Ile Val Glu Pro Ser Asp Asn Ala Val Leu Pro					
	610	615	620		

Ala Phe Pro Ser Ala Ser Pro His Val Ala Pro Val Lys Thr Ser Ala
 625 630 635 640
 Ala Arg Asn Pro Phe Lys Glu
 645

<210> 9253

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 9253

Glu Arg Glu Ile Met Lys Asn Gln Arg Gly Phe Thr Leu Leu Glu Ile
 1 5 10 15
 Ile Leu Ala Leu Val Ile Phe Ala Ser Cys Ala Met Met Val Val Ser
 20 25 30
 Thr Ile Pro Ser Arg Ser Gly Ala Asp Ile Phe Gly Gln Gln Leu Lys
 35 40 45
 Ala Leu Val Asp Tyr Gly Ser Asp Arg Ala Val Met Asp Gly Asn Ile
 50 55 60
 Val Gly Leu Val Ile Ala Thr Asp Lys Tyr Gln Leu Val Thr Ile Ala
 65 70 75 80
 Asp Glu Asn Gly Glu Arg His Trp Val Pro Leu Ser Ala Gly Arg Ile
 85 90 95
 Ser Thr Lys Gly Asp Phe Pro Glu Glu Met His Val Ser Leu Ser Pro
 100 105 110
 Gln Arg Leu Ala Ala Thr Val Thr Ser Glu Pro Gln Val Ile Phe Leu
 115 120 125
 Pro Asp Gly Glu Ile Ser Arg Phe Thr Leu Thr Leu Gln Ser Tyr Asp
 130 135 140
 Lys Gln His His Phe Arg Val Val Ser Gln Gly Ala Ala Pro Val Ser
 145 150 155 160
 Val Glu Asn Asp Gly
 165

<210> 9254

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 9254

Glu Pro Ala Gly Tyr Phe Pro Ala Tyr His Ser Ala Gly Arg Glu Gln
 1 5 10 15
 Val Lys Lys Met Arg Arg Gln Arg Gly Phe Thr Leu Leu Glu Ile Met
 20 25 30
 Ile Ala Leu Thr Ile Phe Ala Val Ile Ser Thr Leu Ala Trp Gln Ile
 35 40 45
 Leu Asp Gly Ala Met Arg Thr Ser Ser Ala Thr Asp Ala Ser Ala Ala
 50 55 60
 Lys Leu Asn Gln Leu Gln Arg Ala Trp Ser Leu Met Glu Arg Asp Phe
 65 70 75 80
 Phe Gln Leu Gln Ala Arg Ala Pro Arg Asn Glu Pro Glu Leu Phe Arg
 85 90 95
 Gln Ala Gly Asp Ala Leu Glu Leu Thr Thr Leu Asn Gly Val Ser Gly
 100 105 110
 Thr Val Gln Leu Glu Arg Glu Arg Trp Arg Leu Glu Glu Gly Arg Leu
 115 120 125
 Tyr Arg Asp Val Trp Pro Val Ile Asp Gly Pro Ala Glu Val Lys Pro
 130 135 140
 Asp Glu Val Pro Ile Val Ser Gly Val Lys Ser Leu Gln Trp Arg Phe
 145 150 155 160
 Tyr Arg Gln Gly Trp Leu Lys Ser Trp Ser Asp Ala Ala His Leu Pro

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          165          170          175
Asp Gly Val Glu Val Thr Leu Thr Met Glu Asn Gly Asp Thr Trp Arg
          180          185          190
Trp Val Phe Thr Thr Pro Gly Asp Met Pro Glu Val Ala Ala Ala
          195          200          205
Ala Pro Glu Lys Ala Ala Asp Ala Pro Gly Thr Pro Pro Asp Ala Ala
          210          215          220
Pro Ala Pro Ala Pro Ser Pro Glu Thr Arg Pro
          225          230          235

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<210> 9255

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 9255

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Pro Pro Gln Arg Cys Glu Ser Ala Gly Ala Thr His Leu Gly Lys Lys
1          5          10          15
Arg Met Asn Thr Phe Ala Leu Met Arg Asp Ala Phe Pro Val Gly Phe
          20          25          30
Pro Ile Met Ser Ala Ile Leu Gly Gly Ile Val Gly Ser Phe Leu Gly
          35          40          45
Val Val Ala Glu Arg Val Pro Gly Met Val Met Asp Glu Glu Gly Ser
          50          55          60
Gly Asn Leu Leu Ile Pro Ala Ser His Cys Pro Val Cys Gln His Ala
65          70          75          80
Leu Ala Ala Trp Glu Asn Ile Pro Leu Leu Ser Trp Leu Leu Leu Arg
          85          90          95
Gly Arg Cys His Gln Cys Gly Ser Ala Ile Pro Leu Arg Leu Phe Leu
          100          105          110
Val Glu Leu Ile Ser Ala Leu Phe Gly Ile Thr Ala Trp Cys Met
          115          120          125
Pro Asp Val Gln Ala Leu Phe Ser Leu Trp Leu Leu Ala Ala Phe Leu
130          135          140
Leu Pro Leu Ala Met Ile Asp Trp Gln His Gln Leu Leu Pro Asp Cys
145          150          155          160
Leu Thr Gln Pro Leu Leu Trp Ala Gly Leu Leu Leu His Val Phe Asp
          165          170          175
His Thr Leu Pro Leu Arg Asp Ala Leu Phe Gly Ala Val Ala Gly Tyr
          180          185          190
Leu Ser Leu Trp Leu Leu Tyr Trp Ala Phe Arg Leu Ile Thr Gly Arg
          195          200          205
Glu Gly Leu Gly Tyr Gly Asp Phe Lys Leu Leu Ala Ala Leu Gly Ala
          210          215          220
Trp Cys Gly Trp Gln Ala Leu Pro Ser Ile Glu Leu Ala Ala Ala Leu
225          230          235          240
Ser Gly Ile Val Gly Tyr Phe Ala Val Asn Asn Leu Asn Lys Asn Asn
          245          250          255
Leu Ser Ile Ser Phe Gly Pro Tyr Leu Ala Phe Ala Gly Ile Gly Val
          260          265          270
Phe Ile Ser Gln Gln Ile Ala Phe Thr Phe
          275          280

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<210> 9256

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9256

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Pro Ile Asn His Ser Pro Phe Arg Gly Gly Val Ile Gln Asn Ser Phe
1          5          10          15

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Tyr Arg Met Leu Val Arg Arg Asn Asn Arg Asn Cys Gln Gln Val Lys
 20 25 30
 Met Lys Lys Leu Ile Leu Leu Leu Ile Ile Ser Gln Ser Ala Leu
 35 40 45
 Ala Asn Cys Trp Asp Lys Ala Ala His Tyr Tyr His Val Asp Pro Tyr
 50 55 60
 Leu Leu Tyr Ala Ile Ala Asn Val Glu Ser Gly Met Asn Pro Tyr Ala
 65 70 75 80
 Val Gly Gln Asn Arg Asp Gly Thr Arg Asp Val Gly Leu Met Gln Ile
 85 90 95
 Asn Ser Ser His Phe Thr Ala Leu Glu Ser Arg Gly Ile Asp Glu Tyr
 100 105 110
 Arg Leu Ile Thr Glu Pro Cys Thr Ser Ile Met Val Gly Ala Ser Ile
 115 120 125
 Leu Ser Gly Met Ile Arg Val Tyr Gly Tyr Asn Trp Glu Ala Val Gly
 130 135 140
 Ala Tyr Asn Ala Gly Leu Lys Lys Glu Asn Tyr Pro Gln Arg Met Lys
 145 150 155 160
 Tyr Ala His Lys Val Trp Ala Lys Tyr Gln Gln Leu Lys Leu Ala Ala
 165 170 175
 Arg Tyr

<210> 9257

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9257

Pro Glu Gln Leu Phe Gly Ile Phe Met Asn Leu Lys Gly Lys Arg Arg
 1 5 10 15
 Lys Leu Phe Leu Leu Leu Ala Val Val Val Leu Ala Gly Gly Phe Trp
 20 25 30
 Leu Trp Lys Val Leu Asn Ala Pro Val Pro Gln Tyr Gln Thr Leu Ile
 35 40 45
 Val Arg Pro Gly Glu Leu Gln Gln Asn Val Leu Ala Thr Gly Lys Leu
 50 55 60
 Asp Ala Leu Arg Lys Val Asp Val Gly Ala Gln Val Ser Gly Gln Leu
 65 70 75 80
 Lys Thr Leu Ser Val Glu Ile Gly Asp Lys Val Lys Lys Gly Gln Leu
 85 90 95
 Leu Gly Val Ile Asp Pro Glu Gln Ala Gln Asn Gln Ile Arg Glu Val
 100 105 110
 Glu Ala Thr Leu Met Glu Leu Arg Ala Gln Arg Ala Gln Ala Gln Ala
 115 120 125
 Glu Arg Asn Leu Ala Gln Val Thr Leu Thr Arg Gln Gln Ala Leu Ala
 130 135 140
 Lys Thr Gln Ala Ile Ser Lys Gln Asp Leu Asp Thr Ala Ala Thr Glu
 145 150 155 160
 Leu Ala Val Lys Gln Ala Gln Ile Gly Thr Ile Asp Ala Gln Ile Lys
 165 170 175
 Arg Asn Gln Ala Ser Leu Asp Thr Ala Lys Thr Asn Leu Asp Tyr Thr
 180 185 190
 Gln Ile Val Ala Pro Met Ala Gly Glu Val Thr Gln Ile Thr Thr Leu
 195 200 205
 Gln Gly Gln Thr Val Ile Ala Ala Gln Gln Ala Pro Asn Ile Leu Thr
 210 215 220
 Leu Ala Asp Met Ser Thr Met Leu Val Lys Ala Gln Val Ser Glu Ala
 225 230 235 240
 Asp Val Ile His Leu Lys Pro Gly Gln Lys Ala Trp Phe Thr Val Leu
 245 250 255

Gly Asp Pro Gln Thr Arg Tyr Glu Gly Val Leu Lys Asp Ile Leu Pro
 260 265 270
 Thr Pro Glu Lys Val Asn Asp Ala Ile Phe Tyr Tyr Ala Arg Phe Glu
 275 280 285
 Val Pro Asn Pro Gln Gly Val Leu Arg Leu Asp Met Thr Ala Gln Val
 290 295 300
 His Ile Gln Leu Thr Gly Val Lys Asn Val Leu Thr Val Pro Leu Ser
 305 310 315 320
 Ala Leu Gly Glu Ser Ala Gly Asp Asn Arg Tyr Lys Val Lys Val Leu
 325 330 335
 Arg Asn Gly Glu Thr Arg Glu Arg Glu Val Val Ile Gly Ala Arg Asn
 340 345 350
 Asp Thr Asp Val Val Val Lys Gly Leu Glu Glu Gly Glu Glu Val
 355 360 365
 Val Thr Ser Glu Thr Leu Pro Gly Ala Ala Gln 380
 370 375

<210> 9258

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 9258

Gln Thr Ser Arg Met Thr Val Ile Asp Asp Cys Tyr Leu Thr Ser Glu
 1 5 10 15
 Val Asp Ser Lys Trp Leu Cys Ile Met Gly Lys Thr Asn Asp Trp Leu
 20 25 30
 Asp Phe Asp Gln Leu Ala Glu Asp Lys Val Arg Asp Ala Leu Lys Pro
 35 40 45
 Pro Ser Met Tyr Lys Val Met Leu Met Asn Asp Asp Tyr Thr Pro Met
 50 55 60
 Glu Phe Val Ile Asp Val Leu Gln Lys Phe Phe Ser Tyr Asp Val Glu
 65 70 75 80
 Arg Ala Thr Gln Leu Met Leu Thr Val His Tyr Arg Gly Lys Ala Ile
 85 90 95
 Cys Gly Ile Phe Thr Ala Glu Val Ala Glu Thr Lys Val Ala Met Val
 100 105 110
 Asn Asp Tyr Ala Arg Glu Asn Glu His Pro Leu Leu Cys Thr Leu Glu
 115 120 125
 Lys Ala
 130

<210> 9259

<211> 768

<212> PRT

<213> Enterobacter cloacae

<400> 9259

Gly Ile Lys Leu Gly Glu Val Pro Met Leu Asn Gln Glu Leu Glu Leu
 1 5 10 15
 Ser Leu Asn Met Ala Phe Ala Arg Ala Arg Glu His Arg His Glu Phe
 20 25 30
 Met Thr Val Glu His Leu Leu Leu Ala Leu Leu Ser Asn Pro Ser Ala
 35 40 45
 Arg Glu Ala Leu Glu Ala Cys Ser Val Asp Leu Val Ala Leu Arg Gln
 50 55 60
 Glu Leu Glu Ala Phe Ile Glu Gln Thr Thr Pro Val Leu Pro Ala Ser
 65 70 75 80
 Glu Glu Glu Arg Asp Thr Gln Pro Thr Leu Ser Phe Gln Arg Val Leu
 85 90 95
 Gln Arg Ala Val Phe His Val Gln Ser Ser Gly Arg Ser Glu Val Thr

	100		105		110
Gly Ala Asn Val Leu Val Ala Ile	115	Phe Ser Glu Gln Glu Ser Gln Ala	120	125	
Ala Tyr Leu Leu Arg Lys His Glu Val Ser Arg Leu Asp Val Val Asn	130		135	140	
Phe Ile Ser His Gly Thr Arg Lys Asp Glu Pro Asn Gln Ala Ser Asp	145		150	155	160
Pro Ser Gly Gln Ile Asn Ser Asn Glu Glu Gln Ala Gly Gly Glu Asp	165		170	175	
Arg Met Glu Asn Phe Thr Thr Asn Leu Asn Gln Leu Ala Arg Val Gly	180		185	190	
Gly Ile Asp Pro Leu Ile Gly Arg Asp Lys Glu Leu Glu Arg Ala Ile	195		200	205	
Gln Val Leu Cys Arg Arg Arg Lys Asn Asn Pro Leu Leu Val Gly Glu	210		215	220	
Ser Gly Val Gly Lys Thr Ala Ile Ala Glu Gly Leu Ala Trp Arg Ile	225		230	235	240
Val Gln Gly Asp Val Pro Glu Val Ile Ala Asp Cys Thr Ile Tyr Ser	245		250	255	
Leu Asp Ile Gly Ser Leu Leu Ala Gly Thr Lys Tyr Arg Gly Asp Phe	260		265	270	
Glu Lys Arg Phe Lys Ala Leu Leu Lys Gln Leu Glu Gln Asp Thr Asn	275		280	285	
Ser Ile Leu Phe Ile Asp Glu Ile His Thr Ile Ile Gly Ala Gly Ala	290		295	300	
Ala Ser Gly Gly Gln Val Asp Ala Ala Asn Leu Ile Lys Pro Leu Leu	305		310	315	320
Ser Ser Gly Lys Ile Arg Val Met Gly Ser Thr Thr Tyr Gln Glu Phe	325		330	335	
Ser Asn Ile Phe Glu Lys Asp Arg Ala Leu Ala Arg Arg Phe Gln Lys	340		345	350	
Ile Asp Val Thr Glu Pro Ser Val Asp Glu Thr Val Gln Ile Ile Asn	355		360	365	
Gly Leu Lys Thr Lys Tyr Glu Ala His His Asp Val Arg Tyr Thr Ala	370		375	380	
Lys Ala Val Arg Ala Ala Val Glu Leu Ala Val Lys Tyr Ile Asn Asp	385		390	395	400
Arg His Leu Pro Asp Lys Ala Ile Asp Val Ile Asp Glu Ala Gly Ala	405		410	415	
Arg Ala Arg Leu Met Pro Ala Ser Lys Arg Lys Lys Thr Val Asn Val	420		425	430	
Ala Asp Ile Glu Ser Val Val Ala Arg Ile Ala Arg Ile Pro Glu Lys	435		440	445	
Ser Val Ser Gln Ser Asp Arg Asp Thr Leu Arg Thr Leu Gly Asn Arg	450		455	460	
Leu Lys Met Leu Val Phe Gly Gln Asp Lys Ala Ile Glu Ala Leu Thr	465		470	475	480
Glu Ala Ile Lys Met Ala Arg Ala Gly Leu Gly His Asp His Lys Pro	485		490	495	
Val Gly Ser Phe Leu Phe Ala Gly Pro Thr Gly Val Gly Lys Thr Glu	500		505	510	
Val Thr Val Gln Leu Ser Lys Ala Leu Gly Ile Glu Leu Leu Arg Phe	515		520	525	
Asp Met Ser Glu Tyr Met Glu Arg His Thr Val Ser Arg Leu Ile Gly	530		535	540	
Ala Pro Pro Gly Tyr Val Gly Phe Asp Gln Gly Gly Leu Leu Thr Asp	545		550	555	560
Ala Val Ile Lys His Pro His Ala Val Leu Leu Leu Asp Glu Ile Glu	565		570	575	
Lys Ala His Pro Asp Val Phe Asn Ile Leu Leu Gln Val Met Asp Asn	580		585	590	

Gly Thr Leu Thr Asp Asn Asn Gly Arg Lys Ala Asp Phe Arg Asn Val
 595 600
 Val Leu Val Met Thr Thr Asn Ala Gly Val Arg Glu Thr Glu Arg Lys
 610 615
 Ser Ile Gly Leu Ile His Gln Asp Asn Ser Thr Asp Ala Met Glu Glu
 625 630
 Ile Lys Lys Ile Phe Thr Pro Glu Phe Arg Asn Arg Leu Asp Asn Ile
 645 650
 Ile Trp Phe Asp His Leu Ser Thr Glu Val Ile His Gln Val Val Asp
 660 665
 Lys Phe Ile Val Glu Leu Gln Val Gln Leu Asp Gln Lys Gly Val Ser
 675 680
 Leu Glu Val Ser Gln Glu Ala Arg Asn Trp Leu Ala Glu Lys Gly Tyr
 690 695
 Asp Arg Ala Met Gly Ala Arg Pro Met Ala Arg Val Ile Gln Asp Asn
 705 710
 Leu Lys Lys Pro Leu Ala Asn Glu Leu Leu Phe Gly Ser Leu Val Asp
 725 730
 Gly Gly Gln Val Thr Val Gly Leu Asp Gln Ala Lys Asn Glu Leu Thr
 740 745
 Tyr Asp Phe Gln Ser Ala Ala Lys His Lys Pro Glu Ala Ala His
 755 760 765

<210> 9260

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 9260

Gln Ser Phe Pro Glu Met Lys Lys Pro Thr Arg Ala Pro Ala Gly Gln
 1 5 10 15
 Ile Arg Ile Ile Gly Gly Gln Trp Arg Gly Arg Lys Leu Pro Val Pro
 20 25 30
 Asp Ser Pro Gly Leu Arg Pro Thr Thr Asp Arg Val Arg Glu Thr Leu
 35 40 45
 Phe Asn Trp Leu Ala Pro Ser Met Val Asp Ala Asn Cys Leu Asp Cys
 50 55 60
 Phe Ala Gly Ser Gly Ala Leu Gly Leu Glu Ala Leu Ser Arg Tyr Ala
 65 70 75 80
 Ala Ser Ala Thr Leu Leu Glu Met Glu Arg Gly Val Ala Gln Thr Leu
 85 90 95
 Gln Gln Asn Leu Ala Thr Leu Lys Ala Thr Asn Ala Lys Val Val Asn
 100 105 110
 Thr Asn Thr Leu Ser Phe Leu Ala Gln Gln Gly Thr Pro Tyr Asn Val
 115 120 125
 Val Phe Val Asp Pro Pro Phe Arg Lys Gly Leu Leu Glu Glu Thr Leu
 130 135 140
 Ser Leu Leu Glu Gln Asn Gly Trp Leu Ala Asp Asp Ala Leu Ile Tyr
 145 150 155 160
 Val Glu Ser Glu Val Glu Asn Gly Leu Pro Pro Val Pro Val His Trp
 165 170 175
 Asp Leu His Arg Glu Lys Val Ala Gly Gln Val Ala Tyr Arg Leu Tyr
 180 185 190
 His Arg Gln Ala Gln Gly Gly Ser Asp Ala Ser Thr Asp
 195 200 205

<210> 9261

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 9261

Ser Lys Arg Tyr Asn Met Asn Ser Phe Thr Gln Ser Gln Arg Val Lys
 1 5 10 15
 Ala Leu Phe Trp Leu Ser Leu Phe His Leu Leu Val Ile Ile Ser Ser
 20 25 30
 Asn Tyr Leu Val Gln Leu Pro Ile Ser Ile Phe Gly Phe His Thr Thr
 35 40 45
 Trp Gly Ala Phe Ser Phe Pro Phe Ile Phe Leu Ala Thr Asp Leu Thr
 50 55 60
 Val Arg Ile Phe Gly Ala Pro Leu Ala Arg Arg Ile Ile Phe Ala Val
 65 70 75 80
 Met Ile Pro Ala Leu Phe Val Ser Tyr Ala Ile Ser Ser Leu Phe Tyr
 85 90 95
 Met Gly Ser Trp Gln Gly Phe Glu Ala Leu Thr His Phe Asn Leu Phe
 100 105 110
 Val Ala Arg Ile Ala Thr Ala Ser Phe Met Ala Tyr Ala Leu Gly Gln
 115 120 125
 Ile Leu Asp Val His Val Phe Asn Arg Leu Arg Gln Asn His Arg Trp
 130 135 140
 Trp Met Ala Pro Thr Ala Ser Thr Leu Phe Gly Asn Val Ser Asp Thr
 145 150 155 160
 Leu Ala Phe Phe Phe Ile Ala Phe Trp Arg Ser Pro Asp Ala Phe Met
 165 170 175
 Ala Glu His Trp Met Glu Ile Ala Leu Val Asp Tyr Ala Phe Lys Val
 180 185 190
 Leu Ile Ser Leu Val Phe Phe Leu Pro Met Tyr Gly Val Leu Leu Asn
 195 200 205
 Met Leu Leu Lys Arg Leu Ala Asp Lys Ser Glu Ile Ser Ala Leu Gln
 210 215 220
 Ala Gly
 225

<210> 9262

<211> 200

<212> PRT

<213> *Enterobacter cloacae*

<400> 9262

Thr Asn Glu Pro Leu Trp Pro Phe Ile Glu Arg Lys Lys Ser Met Arg
 1 5 10 15
 Asn Leu Val Lys Tyr Val Gly Ile Gly Leu Leu Val Val Gly Leu Ala
 20 25 30
 Ala Cys Asp Asn Ser Asp Thr Lys Thr Pro Ala Gln Gly Ala Ser Ala
 35 40 45
 Glu Ser Asn Ala Thr Gly Gln Pro Val Ser Leu Met Asp Gly Lys Leu
 50 55 60
 Ser Phe Ser Leu Pro Ala Asp Met Thr Asp Gln Ser Gly Lys Leu Gly
 65 70 75 80
 Thr Gln Ala Asn Asn Met His Val Tyr Ser Asp Ala Thr Gly Gln Lys
 85 90 95
 Ala Val Ile Val Ile Val Gly Asp Asp Thr Ser Glu Asp Leu Gly Val
 100 105 110
 Leu Ala Lys Arg Leu Glu Asp Gln Gln Arg Ser Arg Asp Pro Gln Leu
 115 120 125
 Gln Val Val Thr Asn Lys Ser Val Glu Leu Lys Gly His Thr Leu Gln
 130 135 140
 Gln Leu Asp Ser Ile Ile Ser Ala Lys Gly Gln Thr Ala Tyr Ser Ser
 145 150 155 160
 Val Val Leu Gly Lys Val Asp Asn Lys Leu Leu Thr Met Gln Ile Thr
 165 170 175
 Leu Pro Ala Asp Asn Gln Gln Lys Ala Gln Thr Ala Ala Glu Asn Ile

180 185 190
 Ile Asn Thr Leu Val Ile Gln
 195 200

<210> 9263
 <211> 371
 <212> PRT
 <213> Enterobacter cloacae

<400> 9263
 Arg Ser Arg Arg Ser Pro Ser Gly Ala Leu Gln Leu Thr Arg Pro Pro
 1 5 10 15
 Glu Lys Gly Ile Leu Met Thr Ala Ser Pro Pro Asp Lys Ala Gly Leu
 20 25 30
 His Ile Leu Leu Lys Leu Ala Cys Leu Val Val Ile Leu Ala Gly Ile
 35 40 45
 His Ala Ala Ala Asp Ile Ile Val Gln Leu Leu Leu Ala Leu Phe Phe
 50 55 60
 Ala Ile Val Leu Asn Pro Leu Val Thr Trp Phe Leu Arg Arg Gly Ile
 65 70 75 80
 Ser Arg Pro Val Ala Ile Thr Ile Val Val Met Val Met Leu Val Val
 85 90 95
 Leu Thr Ala Leu Phe Gly Val Leu Ala Ala Ser Leu Ser Glu Phe Ser
 100 105 110
 Thr Met Leu Pro Gln Tyr Asn Lys Glu Leu Thr Arg Lys Leu Val Asp
 115 120 125
 Leu Gln Arg Met Leu Pro Phe Val Asn Leu His Ile Ser Pro Glu Arg
 130 135 140
 Met Leu Arg Arg Met Asp Ser Glu Lys Val Met Thr Tyr Ala Thr Thr
 145 150 155 160
 Leu Met Thr Gly Leu Ser Gly Ala Met Ala Ser Ile Leu Leu Leu Val
 165 170 175
 Met Thr Val Val Phe Met Leu Phe Glu Val Arg His Val Pro Tyr Lys
 180 185 190
 Leu Arg Phe Ala Leu Asn Asn Pro Gln Ile His Ile Ala Gly Leu His
 195 200 205
 Arg Ala Leu Lys Gly Val Ser Lys Tyr Leu Ala Leu Lys Thr Leu Leu
 210 215 220
 Ser Leu Trp Thr Gly Val Ile Val Trp Leu Gly Leu Val Leu Leu Asp
 225 230 235 240
 Val Gln Phe Ala Leu Met Trp Gly Val Leu Ala Phe Leu Leu Asn Tyr
 245 250 255
 Val Pro Asn Ile Gly Ala Val Leu Ser Ala Val Pro Pro Met Ile Gln
 260 265 270
 Ala Phe Leu Phe Asn Gly Phe Tyr Glu Cys Met Leu Val Gly Ala Leu
 275 280 285
 Phe Leu Ile Val His Met Val Leu Gly Asn Ile Leu Glu Pro Arg Met
 290 295 300
 Met Gly His Arg Leu Gly Met Ser Thr Met Val Val Phe Leu Ser Leu
 305 310 315 320
 Leu Ile Trp Gly Trp Leu Leu Gly Pro Val Gly Met Leu Leu Ser Val
 325 330 335
 Pro Leu Thr Ser Val Cys Lys Ile Trp Met Glu Thr Thr Lys Gly Gly
 340 345 350
 Ser Lys Leu Ala Ile Leu Leu Gly Pro Gly Arg Pro Lys Ser Arg Leu
 355 360 365
 Pro Gly
 370

<210> 9264
 <211> 452

<212> PRT

<213> *Enterobacter cloacae*

<400> 9264

Arg Lys Thr Met Leu Asn Pro Leu Pro Leu Ser Gln Trp Leu Ser Ala
 1 5 10 15
 Pro Arg Pro Asp Asp Thr Pro Val Ala Trp Gln Asp Asp His Leu Trp
 20 25 30
 Thr Leu Gly Asp Leu Arg His Asp Val Thr Gln Leu Val Asp Thr Leu
 35 40 45
 Arg Arg Glu Asp Gly Glu Arg Trp Ala Leu Cys Ile Glu Asn Gly Tyr
 50 55 60
 Leu Phe Ile Val Ala Leu Leu Ala Thr Leu His Ala Gly Lys Thr Pro
 65 70 75 80
 Val Leu Pro Gly His Ser Arg Ala Ala Gln Leu Asn Glu Gln Arg Ala
 85 90 95
 Leu Phe Ser Gly Val Leu Ser Asp Thr Thr Leu Asp Phe Gln Gly Gln
 100 105 110
 Gln Leu Arg Val Ala Ser Ala Gln Arg Ala Gly His Pro Phe Ser Pro
 115 120 125
 Leu Pro Ala Ile Gly Glu Met Arg Thr Ile Glu Leu Tyr Thr Ser Gly
 130 135 140
 Ser Thr Gly Thr Pro Gln Arg Val Ser Lys Pro Val Val Ser Leu Asp
 145 150 155 160
 Arg Glu Ala Arg Leu Leu Ala Ala His Phe Gly Glu Arg Leu Ala Gly
 165 170 175
 Cys His Val Val Ala Ser Val Val Leu His His Leu Tyr Gly Leu Thr
 180 185 190
 Phe Arg Val Val Leu Pro Leu Ala Leu Gly Leu Pro Leu His Ala Ser
 195 200 205
 Leu Leu Asn Tyr Ala Glu Gln Leu Ser Ala Leu Pro Asp Asp Lys Arg
 210 215 220
 Tyr Leu Phe Ile Ser Ser Pro Ala Phe Leu Lys Arg Leu Asp Ala Ser
 225 230 235 240
 Leu Thr Pro Pro Pro Val Asn Leu Leu Phe Ser Ala Gly Gly Ala Leu
 245 250 255
 Pro Trp Gln Glu Val Ala Ala Val Gln Ala Trp Leu Asn Val Trp Pro
 260 265 270
 Asp Glu Ile Tyr Gly Ser Thr Glu Thr Gly Val Met Ala Trp Arg Tyr
 275 280 285
 Arg Gln Glu Glu Ser Thr Arg Trp Gln Pro Phe Pro Gly Val Thr Phe
 290 295 300
 His Gly Asp Arg Val Met Ser Pro Leu Ile Pro Glu Val Glu Gly Val
 305 310 315 320
 Val Leu Asp Asp Ile Leu His Phe Thr Ala Asp Gly Gln Phe Ser Leu
 325 330 335
 Val Gly Arg Arg Gly Arg Val Val Lys Ile Glu Asp Lys Arg Ile Ser
 340 345 350
 Leu Asp Asp Ile Glu Arg Arg Leu Leu Ala Leu Asp Gly Ile Arg Glu
 355 360 365
 Ala Ala Ala Leu Thr Val Thr Arg Gly Gly Arg Gln Gly Ile Gly Val
 370 375 380
 Leu Leu Val Leu Asn Glu Ala Val Arg Gln Gln His Glu Gln Gly Lys
 385 390 395 400
 Lys Ala Gln Glu Leu Ala Trp Arg Arg Ala Leu Arg Pro Trp Leu Glu
 405 410 415
 Pro Val Ala Val Pro Arg Tyr Trp Arg Ile Val Asp Glu Ile Pro Val
 420 425 430
 Asn Ser Met Asn Lys Arg Val Thr Ala Gln Leu Gln Glu Leu Phe His
 435 440 445
 Glu Asp Pro

450

<210> 9265

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 9265

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Arg Ala Pro His Arg Gln Gln Arg Glu Asp Ser Leu Met Ser Val Thr
1      5      10
Phe Arg Pro Cys Val Leu Ile Pro Cys Tyr Asn His Gly Ala Met Met
20     25     30
Ala Ser Val Leu Ala Arg Leu Ala Pro Phe Asp Leu Pro Cys Leu Val
35     40     45
Val Asp Asp Gly Ser Asp Glu Thr Thr Arg Arg Thr Leu Glu Ala Leu
50     55     60
Ala Ala Asp Arg Pro Gln Val Thr Leu Leu Arg Leu Ala Glu Asn Ser
65     70     75
Gly Lys Gly Ala Ala Val Met Gln Gly Leu Lys Asp Cys Ala Asp Arg
85     90     95
Gly Phe Thr His Ala Val Gln Val Asp Ala Asp Gly Gln His Ala Ile
100    105    110
Glu Asp Ile Pro Lys Leu Leu Ala Leu Ala Glu Arg His Pro Asp Ala
115    120    125
Leu Ile Ser Gly Gln Pro Val Tyr Asp Asp Ser Ile Pro Arg Ser Arg
130    135    140
Leu Tyr Gly Arg Trp Ile Thr His Val Trp Val Trp Ile Glu Thr Leu
145    150    155
Ser Leu Gln Leu Lys Asp Ser Met Cys Gly Phe Arg Val Tyr Pro Ile
165    170    175
Ala Pro Val Leu Arg Leu Ala Ala Thr Thr Pro Leu Gly Arg Arg Met
180    185    190
Asp Phe Asp Thr Glu Val Met Val Arg Leu Tyr Trp Gln Gly Asn Asn
195    200    205
Ser Tyr Phe Leu Pro Thr Arg Val Thr Tyr Pro Pro Asp Gly Val Ser
210    215    220
His Phe Asp Ala Leu Lys Asp Asn Val Arg Ile Ser Leu Met His Thr
225    230    235
Arg Leu Phe Leu Ser Met Leu Pro Arg Ile Pro Ser Leu Leu Met Arg
245    250    255
Arg Arg Ser Gln His Trp Ala Gln Gln Gln Glu Val Lys Gly Leu Trp
260    265    270
Gly Met Arg Leu Met Leu Arg Val Cys Gln Leu Leu Gly Arg Lys Ala
275    280    285
Phe Thr Ala Leu Leu Trp Pro Val Thr Ala Val Tyr Trp Leu Thr Ala
290    295    300
Arg Ala Ala Arg Gln Ala Ser Gln Gln Trp Leu Thr Arg Val Lys Thr
305    310    315
Val Met Ala Gln Arg Gln Met Pro Gln Pro Ala Arg Leu Asn Ser Phe
325    330    335
Ser His Phe Leu Arg Phe Gly His Ala Met Leu Asn Lys Val Ala Ser
340    345    350
Trp Arg Gly Glu Met Lys Leu His Arg Asp Leu Val Phe Ala Pro Gly
355    360    365
Ala Gln Glu Ala Leu Gly Leu Asp Asp Pro Gln Gly Lys Leu Leu Leu
370    375    380
Ala Ser His Leu Gly Asp Val Glu Ala Cys Arg Ala Leu Ala Gln Arg
385    390    395
Glu Gly Ala Lys Thr Ile Asn Ala Leu Val Phe Ser Asp Asn Ala Arg
405    410    415
Arg Phe Lys Gln Val Met Glu Glu Met Ala Pro Gln Ala Gly Ile His

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420	425	430
Leu Met Pro Val Thr Asp Ile Gly	Pro Glu Thr Ala Ile	Leu Ile Lys
435	440	445
Glu Lys Leu Asp Arg Gly Glu Trp	Val Ala Ile Val	Gly Asp Arg Ile
450	455	460
Ala Val Thr Pro Gln Arg Gly Gly	Ser Trp Arg Val	Ile Trp Ser Glu
465	470	475
Phe Met Gly Gln Pro Ala Pro Phe	Pro Gln Gly	Pro Phe Ile Leu Ala
485	490	495
Ser Ile Leu Arg Cys Pro Val Val	Leu Ile Phe Ala	Leu Cys Gln Gln
500	505	510
Gly Lys Leu Thr Leu His Cys Glu	Pro Phe Ala Asp	Pro Leu Leu Leu
515	520	525
Pro Arg Gly Glu Arg Gln Gln Ala	Leu Gln Gln Thr	Val Asp Arg Tyr
530	535	540
Ala Glu Arg Leu Glu His Tyr Ala	Leu Leu Ser	Pro Leu Asp Trp Phe
545	550	555
Asn Phe Phe Asp Phe Trp Gln	Leu Pro Glu	Ile Asn Glu Lys Glu
565	570	575

<210> 9266

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 9266

Arg Val Leu Thr Asp Pro Arg Phe Thr	Ala Glu Val Glu Ile Thr Val
1	5 10 15
Pro Phe His Asp Val Asp Met Met Gly	Val Val Trp His Gly Asn Tyr
20	25 30
Phe Arg Tyr Phe Glu Ile Ala Arg Glu	Ala Leu Leu Asn Gln Phe Asp
35	40 45
Tyr Gly Tyr Arg Gln Met Lys Ala Ser	Gly Tyr Val Trp Pro Val Val
50	55 60
Asp Thr Arg Val Lys Tyr Arg Asp Ala	Val Thr Phe Glu Gln Arg Ile
65	70 75 80
Arg Ile Arg Ala His Ile Glu Glu Val	Glu Asn Arg Leu Arg Ile Ala
85	90 95
Tyr Gln Ile Phe Asp Ala Gln Thr Gly	Lys Arg Thr Thr Thr Gly Tyr
100	105 110
Thr Ile Gln Val Ala Val Glu Glu Ala	Ser Arg Glu Met Cys Phe Val
115	120 125
Ser Pro Ala Ile Leu Phe Glu Arg Met	Gly Ile Ala Pro
130	135 140

<210> 9267

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 9267

Thr Val Thr Ala Gly Ala Asn Arg Leu	Ala Leu Cys Ser Thr Leu Phe
1	5 10 15
Thr Thr Thr Ser Pro Phe Asn Ile Trp	Val Thr Glu Met Ile Tyr Leu
20	25 30
Ser Ala Val Gly Met Val Asn Ala Leu	Gly Asn Ser Ala Asp Glu Ile
35	40 45
Ala Ala Asn Leu Ile Ala Gly Val Ala	Pro Gly Met Arg Gln Arg Ala
50	55 60
Gly Trp Leu Gln Gly Leu Pro Glu Ala	Val Leu Gly Gly Val Glu Gly
65	70 75 80

Glu Leu Pro Pro Val Pro Glu Ser Phe Ser Ala His Arg Ser Arg Asn
 85 90 95
 Asn Gln Leu Leu Leu Ala Ala Leu Ala Gln Ile Trp Pro Ala Val Asp
 100 105 110
 Ala Ala Ile Ala Arg Val Gly Arg Asp Arg Val Ala Val Val Leu Gly
 115 120 125
 Thr Ser Thr Ser Gly Leu Asp Glu Gly Asp Glu Tyr Val Arg Arg Ala
 130 135 140
 Gln Asn Gly Glu Arg Ser Pro Gln Trp Gln Tyr Pro Gln Gln Glu Leu
 145 150 155 160
 Gly Asp Pro Ser Arg Phe Leu Ala Ser Trp Leu Ala Leu Asp Gly Pro
 165 170 175
 Ala Tyr Thr Ile Ser Thr Ala Cys Ser Ser Ser Ala Arg Ala Ile Ile
 180 185 190
 Ser Gly Arg Arg Leu Ile Asp Ala Gly Leu Val Asp Val Ala Ile Val
 195 200 205
 Gly Gly Ala Asp Ser Leu Ser Arg Met Pro Val Asn Gly Phe Asn Ser
 210 215 220
 Leu Glu Ser Phe Ser Pro Thr Leu Cys Glu Pro Phe Gly Arg Asn Arg
 225 230 235 240
 Arg Gly Ile Thr Ile Gly Glu Ala Ala Ala Leu Met Val Leu Thr Arg
 245 250 255
 Glu Pro Gly Glu Val Ala Leu Leu Gly Ala Gly Glu Ser Ser Asp Ala
 260 265 270
 Tyr His Ile Ser Ala Pro His Pro Gln Gly Glu Gly Ala Ile Arg Ala
 275 280 285
 Ile Asn Gln Ala Leu Asn Glu Ala Gly Ile Thr Ala Ala Asp Val Gly
 290 295 300
 Tyr Ile Asn Leu His Gly Thr Ala Thr Pro Leu Asn Asp Arg Ile Glu
 305 310 315 320
 Ala Gln Val Ile His Asp Leu Phe Gly Asp Arg Val Pro Cys Ser Ser
 325 330 335
 Thr Lys His Leu Thr Gly His Thr Leu Gly Ala Ala Gly Ile Thr Glu
 340 345 350
 Ala Ala Leu Ser Trp Leu Ile Leu Thr Arg Ser Leu Pro Leu Pro Pro
 355 360 365
 Gln Asp Phe Ser Arg Tyr Ala Pro Asp Asp Thr Leu Pro Ala Phe Gly
 370 375 380
 Leu Leu His Gln Ser Ala Pro Leu Asn Lys Pro Val Ile Leu Ser Asn
 385 390 395 400
 Ser Phe Ala Phe Gly Gly Asn Asn Ala Ser Leu Leu Leu Gly Arg Val
 405 410 415

<210> 9268

<211> 110

<212> PRT

<213> *Enterobacter cloacae*

<400> 9268

Arg His Ser Ser Leu His Tyr Ala Asp Asp Arg His Pro Gln Gly Arg
 1 5 10 15
 Ala Asp His His Pro Val Val Gly Val Arg His Tyr Gly Gln Pro Trp
 20 25 30
 Ala Gly Glu Leu Gln Arg Gly Glu Ser Arg Asp His Arg Arg His Gln
 35 40 45
 Ser Ala Arg His Arg Ala Gly Lys Thr Gln Asn His Arg Gln Leu His
 50 55 60
 Arg Ala Gly Ala Asp Arg Tyr Arg His Asp Arg Asp Gly Arg Ser Cys
 65 70 75 80

Ala Ala Arg Gly Asp Val Asp Tyr Pro Asp Ala Ala Tyr Gly Pro Gly
 85 90 95
 Arg Gly Gly Arg Gly Ala Gly Glu Leu Pro Asp Val Gly
 100 105 110

<210> 9269

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 9269

Arg Arg His Ala Met Thr Arg Arg Val Val Ile Thr Gly Met Gly Gly
 1 5 10 15
 Val Thr Ala Phe Gly Glu Asp Trp Pro Thr Ile Ser Arg Arg Leu Arg
 20 25 30
 Glu Tyr Glu Asn Ala Val Arg Thr Met Thr Glu Trp Gln Ala Tyr Asp
 35 40 45
 Gly Leu Gln Thr Leu Leu Ala Ala Pro Ile Glu Asp Phe Thr Leu Pro
 50 55 60
 Ala His Tyr Thr Arg Lys Arg Ile Arg Ala Met Gly Arg Val Ser Leu
 65 70 75 80
 Leu Ser Thr Arg Ala Thr Glu Leu Ala Leu Glu Gln Ala Gly Leu Ile
 85 90 95
 Asp Asp Ala Val Leu Thr Asn Gly Gln Thr Gly Ile Ala Tyr Gly Ser
 100 105 110
 Ser Thr Gly Ser Thr Gly Pro Val Ser Glu Phe Ala Ser Met Leu Thr
 115 120 125
 Glu Lys His Thr His Asn Ile Thr Gly Thr Thr Tyr Val Gln Met Met
 130 135 140
 Pro His Thr Thr Ala Val Asn Thr Gly Leu Phe Phe Gly Leu Arg Gly
 145 150 155 160
 Arg Val Ile Pro Thr Ser Ser Ala Cys Thr Ser Gly Ser Gln Ala Ile
 165 170 175
 Gly Tyr Ala Trp Glu Thr Ile Arg His Gly Tyr Gln Thr Val Met Val
 180 185 190
 Ala Gly Gly Ala Glu Glu Leu Cys Pro Ser Glu Ala Ala Val Phe Asp
 195 200 205
 Thr Leu Phe Ala Thr Ser Gln Arg Asn Asp Ala Pro Lys Thr Thr Pro
 210 215 220
 Ser Pro Phe Asp Val Gln Arg Asp Gly Leu Val Ile Gly Glu Gly Ala
 225 230 235 240
 Gly Thr Leu Val Leu Glu Ala Leu Asp His Ala Arg Ala Arg Gly Ala
 245 250 255
 Thr Ile Tyr Gly Glu Ile Val Gly Phe Ala Thr Asn Cys Asp Ala Ala
 260 265 270
 His Ile Thr Gln Pro Gln Arg Glu Thr Met Gln Val Cys Met Glu Gln
 275 280 285
 Ser Leu Ala Met Ala Gly Leu Gly Pro Gln Asp Ile Gly Tyr Ile Ser
 290 295 300
 Ala His Gly Thr Ala Thr Asp Arg Gly Asp Ile Ala Glu Ser Gln Ala
 305 310 315 320
 Thr Ala Ala Ile Phe Gly Asp Ser Val Pro Ile Ser Ser Leu Lys Ser
 325 330 335
 Tyr Phe Gly His Thr Leu Gly Ala Cys Gly Ala Leu Glu Ala Leu Leu
 340 345 350
 Ser Leu His Met Met Arg Glu Gly Trp Phe Thr Pro Thr Leu Asn Leu
 355 360 365
 Arg Gln Pro Asp Glu Gln Cys Gly Ala Leu Asp Tyr Ile Met Gly Glu
 370 375 380
 Thr Arg Pro Ile Asp Cys Glu Phe Ile Gln Ser Asn Asn Phe Ala Phe
 385 390 395 400

Gly Gly Ile Asn Thr Ser Ile Ile Ile Lys Arg Trp Ala
 405 410

<210> 9270

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 9270

Ile Glu Tyr Thr Gly Pro Thr Leu Phe Asp Leu Asp Lys Gln Leu Met
 1 5 10 15
 Lys Leu Thr Ile Val Arg Leu Val Thr Phe Ser Asp Gln Asp His Ile
 20 25 30
 Asp Leu Gly Lys Ile Trp Pro Glu Tyr Ser Pro Ser Ser Leu Ala Val
 35 40 45
 Asp Glu Asn His Arg Ile Tyr Ala Ala Arg Phe Asn Glu Arg Leu Leu
 50 55 60
 Ala Ala Val Arg Val Thr Leu Ser Gly Thr Glu Gly Ala Leu Asp Ser
 65 70 75 80
 Leu Arg Val Arg Asp Val Thr Arg Arg Arg Gly Val Gly Gln Tyr Leu
 85 90 95
 Ile Glu Glu Val Ile Arg Glu Asn Pro Ser Val Thr Ser Trp Trp Met
 100 105 110
 Ala Asp Val Gly Val Glu Asp Arg Gly Val Met Ala Ala Phe Met Gln
 115 120 125
 Ala Leu Gly Phe Thr Ala Gln Ala Asn Gly Trp Glu Lys Arg Cys
 130 135 140

<210> 9271

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 9271

Phe Thr Leu Lys Ala Lys Trp Lys Met Val Cys Arg Pro Phe Pro Phe
 1 5 10 15
 Thr Gly Ile Cys Thr Ala Arg Arg Ser Pro Ala Arg Trp Leu Ile Val
 20 25 30
 Cys Ile Thr Val Arg His Lys Glu Asp Pro Met Pro Val Leu Ile Asn
 35 40 45
 Val Gly Arg Leu Leu Met Leu Gly Val Trp Ala Phe Leu Ile Leu Asn
 50 55 60
 Leu Val His Pro Phe Pro Arg Pro Leu Asn Ile Phe Ile Asn Val Ala
 65 70 75 80
 Leu Ile Phe Thr Ala Phe Met His Ala Leu Gln Met Val Met Leu Lys
 85 90 95
 Asn Gly Leu Pro Lys Asp Ser Pro Pro Met Thr Gly Trp Gln Gln Leu
 100 105 110
 Arg Val Phe Ile Phe Gly Val Phe Glu Leu Leu Val Trp Met Lys Lys
 115 120 125
 Phe Lys Ala Gln Val Lys Lys
 130 135

<210> 9272

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 9272

Lys Ile Pro Ser Asp Tyr Ala Glu Phe Arg Ile Pro Arg Leu Pro Arg
 1 5 10 15

His Cys Gln Thr Thr Ala Arg Val Thr Thr Leu Asp Gln Glu Leu Ile
 20 25 30
 Ile Gln Pro Gln Gln Leu Gln Gly Val Asn Met Leu Trp Ser Phe Ile
 35 40 45
 Ala Val Cys Phe Ser Ala Trp Leu Tyr Val Asp Ala Ser Tyr Arg Gly
 50 55 60
 Pro Ala Trp Gln Arg Trp Leu Phe Lys Pro Val Thr Leu Leu Leu Leu
 65 70 75 80
 Leu Leu Leu Ala Trp Gln Ala Pro Met Phe Asn Ala Val Ser Tyr Leu
 85 90 95
 Val Leu Ala Gly Leu Cys Ala Ser Leu Ile Gly Asp Ala Leu Thr Leu
 100 105 110
 Leu Pro Arg Gln Arg Leu Leu Tyr Ala Val Gly Ala Phe Leu Ser
 115 120 125
 His Leu Leu Tyr Thr Ile Tyr Phe Ala Ser Gln Met Thr Leu Ser Phe
 130 135 140
 Phe Trp Pro Leu Pro Leu Val Leu Leu Val Ile Gly Ala Leu Leu Ile
 145 150 155 160
 Ala Val Ile Trp Ser Arg Leu Glu Glu Met Arg Leu Pro Val Cys Thr
 165 170 175
 Phe Ile Ala Met Thr Leu Val Met Val Trp Leu Ala Gly Glu Leu Trp
 180 185 190
 Phe Phe Arg Pro Thr Ala Pro Ala Met Ser Ala Phe Phe Gly Ala Ala
 195 200 205
 Leu Leu Leu Leu Gly Asn Ile Val Trp Leu Gly Ser His Tyr Arg Arg
 210 215 220
 Arg Phe Arg Ala Asp Asn Ala Ile Ser Ala Ala Cys Tyr Phe Ala Gly
 225 230 235 240
 His Phe Leu Ile Val Arg Ser Leu Tyr Ile
 245 250

<210> 9273

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 9273

Arg Ala Arg Ala Ala Ala Lys Pro Pro Val Pro Ala Pro Leu Pro Ala
 1 5 10 15
 Gly Arg Ala Pro Val His Pro Ala Gly Arg Ala Pro Ala Val Ala Met
 20 25 30
 Asp Ala Pro Met Arg Gly Leu Arg Ser Arg Leu Asp Arg Leu Trp Arg
 35 40 45
 Met Leu Met Thr Gly Leu Cys Phe Ala Leu Phe Gly Leu Gly Gly Leu
 50 55 60
 Thr Leu Ser Leu Val Trp Phe Asn Leu Leu Leu Ile Phe Gln Arg Asp
 65 70 75 80
 Arg Thr Gln Arg Arg Arg Leu Ala Arg Arg Thr Ile Ser Ala Ser Phe
 85 90 95
 Arg Leu Phe Leu Ala Val Val Arg Gly Ala Gly Val Leu Asp Tyr Arg
 100 105 110
 Phe Asn Asn Leu Asp Val Leu Arg Ala Glu Arg Gly Cys Leu Val Ile
 115 120 125
 Ala Asn His Pro Ser Leu Leu Asp Tyr Val Leu Leu Ala Ser Val Met
 130 135 140
 Asn Glu Thr Asp Cys Leu Val Lys Ser Ala Leu Leu Arg Asn Pro Phe
 145 150 155 160
 Val Ser Gly Val Ile Arg Ala Ala Asp Tyr Leu Ile Asn Ser Glu Ala
 165 170 175
 Asp Thr Leu Leu Ala Ala Ser Gln Gln Arg Leu Ser Gln Gly Asp Thr
 180 185 190

Leu Leu Ile Phe Pro Glu Gly Thr Arg Thr Arg Val Gly Glu Ala Met
 195 200 205
 Thr Leu Gln Arg Gly Ala Ala Asn Ile Ala Val Arg Cys Asn Ser Ala
 210 215 220
 Val Arg Val Val Val Ile His Cys Ser Glu Arg Met Leu Asp Lys Gln
 225 230 235 240
 Ser Ser Trp Tyr Asn Val Pro Pro Asn Lys Pro Val Phe Thr Val Asp
 245 250 255
 Val Arg Glu Arg Ile Asn Ile His Asp Phe Tyr Asp Ala Ser Gln His
 260 265 270
 Glu Pro Ala Leu Ala Ala Arg Gln Leu Asn Arg His Met Gln His Gln
 275 280 285
 Leu Thr Thr Gly Leu Gln Ser Leu Ser Gly Thr Lys Asp Ala Ser Ala
 290 295 300
 Leu Ser
 305

<210> 9274

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 9274

Arg Asp Ala Ser Ala Leu Leu Phe Arg Cys His Ala Arg Gly Phe Tyr
 1 5 10 15
 Pro Ser Thr Thr Arg Leu Arg Met Thr Ala Met Thr Glu Gln Gln Thr
 20 25 30
 Ile Tyr Gln Glu Val Ser Ala Leu Leu Ile Thr Leu Phe Glu Ile Ala
 35 40 45
 Pro Glu Asp Ile Thr Pro Glu Ala Arg Leu Tyr Glu Asp Leu Asp Leu
 50 55 60
 Asp Ser Ile Asp Ala Val Asp Met Val Val His Leu Gln Lys Lys Thr
 65 70 75 80
 Gly His Lys Ile Lys Pro Glu Thr Phe Lys Ala Val Arg Thr Val Gln
 85 90 95
 Asp Val Val Asp Val Val Glu Gln Leu Gln Arg Asp Ala
 100 105 110

<210> 9275

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 9275

Cys Leu Pro Arg His Gly Pro Arg Glu His Leu Pro Ala Glu Arg Gly
 1 5 10 15
 Arg Ile Asn His Thr Phe Gln Pro Gly Asn Thr Ile Met Arg Ser Val
 20 25 30
 Leu Val Thr Gly Ala Ser Lys Gly Ile Gly Arg Ala Ile Ala Leu Gln
 35 40 45
 Leu Ala Ala Asp Gly Phe Thr Val Gly Val His Tyr His Arg Asp Glu
 50 55 60
 Ala Gly Ala Gln Glu Thr Leu Glu Ala Ile Val Gln Ala Gly Gly Ala
 65 70 75 80
 Gly Arg Leu Leu Thr Phe Asp Val Gly Asn Arg Glu Gln Cys Arg Thr
 85 90 95
 Val Leu Glu Gln Glu Ile Ala Asp His Gly Ala Trp Tyr Gly Val Val
 100 105 110
 Ser Asn Ala Gly Ile Thr Arg Asp Gly Ala Phe Pro Ala Leu Ser Asp
 115 120 125
 Asp Asp Trp Asp Ser Val Ile His Thr Asn Leu Asp Ser Phe Tyr Asn

130	135	140
Val Ile His Pro Cys Ile Met Pro Met Ile Gly Thr Arg Lys Gly Gly		
145	150	155
Arg Ile Ile Thr Leu Ser Ser Val Ser Gly Ile Met Gly Asn Arg Gly		160
	165	170
Gln Val Asn Tyr Ser Ala Ala Lys Ala Gly Ile Ile Gly Ala Thr Lys		175
	180	185
Ala Leu Ala Thr Glu Leu Ala Lys Arg Lys Ile Thr Val Asn Cys Ile		190
	195	200
Ala Pro Gly Leu Ile Asp Thr Gly Met Ile Glu Met Asp Glu Ala Ala		205
	210	215
Leu His Ala Ala Met Ser Ile Ile Pro Met Gln Arg Met Gly Gln Ala		220
225	230	235
Glu Glu Val Ala Gly Leu Ala Ser Tyr Leu Met Ser Asp Lys Ala Gly		240
	245	250
Tyr Val Thr Arg Gln Val Ile Ser Ile Asn Gly Gly Met Leu		255
	260	265
		270

<210> 9276

<211> 266

<212> PRT

<213> *Enterobacter cloacae*

<400> 9276

Thr Met Lys Ile Asp Leu Thr Gly Lys Val Ala Leu Val Thr Ala Ser		
1	5	10
Thr Gly Gly Ile Gly Phe Ala Ile Ala Arg Gly Leu Ala Glu Ser Gly		15
	20	25
Ala Glu Val Ile Val Asn Gly Arg Ser Val Asp Ser Val Asn Lys Gly		30
	35	40
Ile Gln Ala Leu Gln Gln Val Val Pro Gly Val Gln Val Arg Ala Ala		45
50	55	60
Ile Ala Asp Leu Ser Ser Gln Glu Gly Val Asp Glu Leu Leu Arg Val		65
	70	75
Ala Thr His Val Asp Ile Leu Val Asn Asn Ala Gly Ile Tyr Gly Gln		80
	85	90
Gln Asp Phe Tyr Ser Thr Asp Asp Glu Thr Trp Glu Arg Tyr Trp Gln		95
	100	105
Thr Asn Val Met Ser Gly Val Arg Leu Ser Arg Ala Leu Leu Pro Gly		110
	115	120
Met Val Gln Lys Gly Trp Gly Arg Val Val Phe Ile Ser Ser Glu Ser		125
	130	135
Ala Cys Asn Ile Pro Ala Asp Met Ile His Tyr Gly Val Thr Lys Thr		140
145	150	155
Ala Gln Leu Ser Leu Ala Arg Gly Leu Ala Lys Phe Val Ala Gly Ser		160
	165	170
Gly Val Thr Val Asn Ser Val Leu Pro Gly Pro Thr Met Ser Asp Gly		175
	180	185
Phe Ala Ala Met Met Lys Asp Glu Ile Glu Arg Thr Gly Lys Ser Leu		190
	195	200
Glu Gln Leu Ala Lys Ala Phe Val Met Glu Asn Arg Pro Ser Ser Val		205
	210	215
Ile Gln Arg Ala Ala Thr Val Glu Glu Val Ala Asn Met Val Val Tyr		220
225	230	235
Val Cys Ser Met Gln Ala Ser Ala Thr Ser Gly Ala Ala Leu Arg Val		240
	245	250
Asp Gly Gly Val Val Asp Asp Ile Val		255
	260	265

<210> 9277

<211> 748

<212> PRT

<213> *Enterobacter cloacae*

<400> 9277

```

Arg Leu Thr Leu Glu Ser Thr Pro Glu Cys Met Leu Arg Leu Met Arg
1      5      10      15
Lys Leu Ser Leu Pro Glu Thr Ala Met Ser Thr Pro Glu Thr Pro Lys
20      25      30
Lys Val Pro Gln Phe Ser Ala Leu Lys Leu Ser Pro Val Pro Pro Lys
35      40      45
Glu Asp Cys Cys Glu Gly Ala Cys Glu Thr Gln Thr Glu Ala Leu
50      55      60
Pro Glu Ser Gly Asn Arg Tyr Ser Trp Val Val Asn Gly Met Asp Cys
65      70      75      80
Ala Ala Cys Ala Arg Lys Val Glu Asn Ala Val Lys Gln Val Pro Gly
85      90      95
Val Asn His Val Gln Val Leu Phe Ala Thr Glu Lys Leu Leu Val Ser
100      105      110
Ala Glu Asn Asp Val Ser Arg Gln Val Glu Ala Ala Val Ser Lys Ala
115      120      125
Gly Tyr Thr Leu Arg Ser Glu Thr Ala Pro Ala Glu Lys Thr Ser Pro
130      135      140
Leu Lys Glu Asn Leu Pro Leu Ile Thr Leu Ile Ile Met Met Ala Leu
145      150      155      160
Ser Trp Gly Leu Glu Gln Ile Asn His Pro Phe Gly Asn Leu Ala Phe
165      170      175
Ile Ala Thr Thr Leu Val Gly Leu Phe Pro Ile Ala Arg Gln Ala Leu
180      185      190
Arg Leu Met Arg Ser Gly Ser Trp Phe Ala Ile Glu Thr Leu Met Ser
195      200      205
Val Ala Ala Ile Gly Ala Leu Phe Ile Gly Ala Thr Ala Glu Ala Ala
210      215      220
Met Val Leu Leu Leu Phe Leu Ile Gly Glu Arg Leu Glu Gly Trp Ala
225      230      235      240
Ala Ser Arg Ala Arg Lys Gly Val Ser Ala Leu Met Ala Leu Lys Pro
245      250      255
Glu Thr Ala Thr Arg Val Ile Asp Gly Gln Arg Glu Thr Val Ala Ile
260      265      270
Asn Thr Leu Arg Pro Gly Asp Val Ile Glu Val Pro Ala Gly Gly Arg
275      280      285
Leu Pro Ala Asp Gly Ala Leu Val Thr Ala Thr Ala Ser Phe Asp Glu
290      295      300
Ser Ala Leu Thr Gly Glu Ser Ile Pro Val Ala Arg Ala Ala Gly Glu
305      310      315      320
Lys Val Pro Ala Gly Ala Thr Ser Val Asp Arg Leu Val Gln Leu Thr
325      330      335
Val Leu Ser Glu Pro Gly Asp Ser Ala Ile Asp Arg Ile Leu Arg Leu
340      345      350
Ile Glu Glu Ala Glu Glu Arg Arg Ala Pro Val Glu Arg Phe Ile Asp
355      360      365
Arg Phe Ser Arg Ile Tyr Thr Pro Ala Ile Met Leu Val Ala Leu Leu
370      375      380
Val Thr Val Val Pro Pro Leu Cys Phe Gly Ala Pro Trp Glu Gly Trp
385      390      395      400
Ile Tyr Lys Gly Leu Thr Leu Leu Leu Ile Gly Cys Pro Cys Ala Leu
405      410      415
Val Ile Ser Thr Pro Ala Ala Ile Thr Ser Gly Leu Ala Ala Ala Ala
420      425      430
Arg Arg Gly Ala Leu Ile Lys Gly Gly Ala Ala Leu Glu Gln Leu Ser
435      440      445
Gln Ile Arg His Val Ala Phe Asp Lys Thr Gly Thr Leu Thr Val Gly

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      450              455              460
Lys Pro Gln Val Thr Gly Val Tyr Pro Gln Asp Val Ser Glu Asp Asp
465              470              475              480
Leu Leu Thr Leu Ala Ala Val Glu Gln Gly Ser Thr His Pro Leu
      485              490              495
Ala Gln Ala Ile Val Arg Glu Ala Gln Ser Arg Gly Leu Asn Ile Pro
      500              505              510
Pro Ala Thr Ala Gln Arg Ala Leu Val Gly Ser Gly Ile Glu Ala Val
      515              520              525
Val Glu Gly Lys Lys Val Leu Ile Ala Ala Asp Ser Arg Ser Thr
      530              535              540
Pro Gln Val Glu Ala Leu Glu Gln Ala Gly Gln Thr Val Val Ala Val
545              550              555              560
Met Gln Asp Gly Val Pro Met Gly Met Leu Ala Leu Arg Asp Thr Leu
      565              570              575
Arg Asp Asp Ala Lys Asp Ala Val Asp Ala Leu His Arg Leu Gly Val
      580              585              590
Gln Gly Val Ile Leu Thr Gly Asp Asn Pro Arg Ala Ala Ala Ile
      595              600              605
Ala Gly Glu Leu Gly Leu Ala Phe Lys Ala Gly Leu Leu Pro Ala Asp
      610              615              620
Lys Val Ser Ala Val Thr Glu Leu Asn Ser Asn Ala Pro Leu Ala Met
625              630              635              640
Val Gly Asp Gly Ile Asn Asp Ala Pro Ala Met Lys Ala Ser Thr Ile
      645              650              655
Gly Ile Ala Met Gly Ser Gly Thr Asp Val Ala Leu Glu Thr Ala Asp
      660              665              670
Ala Ala Leu Thr His Asn Arg Leu Thr Gly Leu Ala Gln Met Ile Asp
      675              680              685
Leu Ala Arg Ala Thr Arg Ala Asn Ile Arg Gln Asn Ile Gly Ile Ala
690              695              700
Leu Gly Leu Lys Gly Ile Phe Leu Val Thr Thr Leu Leu Gly Met Thr
705              710              715              720
Gly Leu Trp Leu Ala Val Leu Ala Asp Thr Gly Ala Thr Val Leu Val
      725              730              735
Thr Ala Asn Ala Leu Arg Leu Leu Arg Gln Arg
      740              745

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<210> 9278

<211> 97

<212> PRT

<213> *Enterobacter cloacae*

<400> 9278

```

Gln Pro Val Phe Asn Leu Cys Gln Glu Arg Lys Met Gln Ala Leu Tyr
1              5              10              15
Leu Glu Ile Lys Asn Leu Ile Ile Ser Thr Leu Asn Leu Glu Glu Leu
      20              25              30
Thr Pro Glu Asp Ile Asp Thr Asp Ala Ala Leu Phe Gly Asp Gly Leu
      35              40              45
Gly Leu Asp Ser Ile Asp Ala Leu Glu Leu Gly Leu Ala Val Lys Asn
50              55              60
Gln Tyr Gly Val Val Leu Ser Ala Glu Ser Asp Glu Met Arg Gln His
65              70              75              80
Phe Tyr Ser Val Ala Thr Leu Ala Ala Phe Ile His Gln Gln Arg Ala
      85              90              95

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<210> 9279

<211> 128

<212> PRT

<213> *Enterobacter cloacae*

<400> 9279

```

Arg Pro Ala Pro Gly Ala Ala Val Gly Arg Gly Met Pro Asp Pro Ala
1      5      10      15
Gly Arg Ala Ala Val Ala Ala Ala Trp Arg Ala Ala Glu Gln Gln Arg
      20      25      30
Ala Arg His Ala Ala Glu Thr Asp Ala Arg Arg Asp Pro Ser Arg Ser
      35      40      45
Gln Arg Arg Ile Tyr Ala Ala Pro Arg Pro Pro Ala His Leu Ala Gly
      50      55      60
Gln Pro Arg Gln Thr Ala Gly Pro Ala Arg Gly Ala Ala Val Val Asn
65      70      75
Pro Ala Ala Thr Gln Pro Gly Ala Glu Cys Arg Lys Arg Ser Ala Gly
      85      90      95
Cys Arg Arg Ala Thr Gly Leu Gly Arg Phe Leu Leu Ala Ala Pro Gln
      100      105      110
Trp Pro Gly Arg Ser Gly His Pro Arg Pro Pro Ala Lys Arg Arg
      115      120      125

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<210> 9280

<211> 181

<212> PRT

<213> *Enterobacter cloacae*

<400> 9280

```

Thr Gly Asp Pro Val Lys Leu Leu Arg Val Trp Arg Gln Gln Arg Gln
1      5      10      15
Pro Ser Ala Gly Glu Ser Met Met His Tyr Leu Pro Pro Gly Asp Tyr
      20      25      30
Leu Pro His Asp Thr Pro Met Leu Leu Leu Glu Ser Val Glu Ser Val
      35      40      45
Thr Asp Asp Arg Ala Val Cys Ser Val Thr Val Asn Glu Arg Gly Val
      50      55      60
Leu Ala Pro Phe Leu Asp Ala Asp Gly Asn Leu Pro Gly Trp Phe Ala
65      70      75
Leu Glu Leu Met Ala Gln Thr Val Gly Val Trp Ser Glu Trp His Arg
      85      90      95
Met Gln Lys Gly Leu Pro His Cys Ala Leu Gly Met Val Leu Gly Ala
      100      105      110
Arg Glu Leu Val Cys Asp Ala Gly His Phe Ala Ala Gly Ser Thr Leu
      115      120      125
Thr Ile Thr Ile Glu Arg Leu Met Gln Asp Glu Arg Phe Gly Ser Phe
      130      135      140
Glu Cys Thr Ile His Ala Asp Ser Val Ser Leu Ala Thr Gly Arg Val
      145      150      155
Asn Thr Phe Gln Pro Ser Glu Glu Glu Leu Thr Thr Leu Phe Asn Gln
      165      170      175
Gly Thr Pro Ser
      180

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<210> 9281

<211> 203

<212> PRT

<213> *Enterobacter cloacae*

<400> 9281

```

Thr Leu Gly Val Thr Met Tyr Gln Phe Val Leu Gly Lys Ile Ser Thr
1      5      10      15
Leu Ser Ala Asp Pro Leu Ala Ser Thr Leu Ala Asp Met Ala Pro Gln

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245 250 255
 Gln Gly Ile Leu Lys Thr Leu Pro Leu Ser His Gly Val Arg Arg Ala
 260 265 270
 Thr Pro Leu His Leu Ile Val Lys Arg Ser Leu Ser Pro Leu Asp Glu
 275 280 285
 Gln Val Glu Thr Leu Leu Arg Leu Phe Lys Gln Glu Pro Ser Ser Ser
 290 295 300
 Thr Ala Thr Leu
 305

<210> 9283
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 9283
 Gly Glu Ala Phe Ala Tyr Ala Leu Asn Gln Trp Asp Ala Leu Cys Tyr
 1 5 10 15
 Tyr Cys Asp Asp Gly Leu Ala Glu Pro Asp Asn Asn Ala Ala Glu Arg
 20 25 30
 Ala Leu Arg Ala Val Cys Leu Gly Lys Lys Asn Tyr Ile Phe Phe Gly
 35 40 45
 Ser Asp His Gly Gly Glu Arg Gly Ala Leu Leu Tyr Gly Leu Ile Gly
 50 55 60
 Thr Cys Arg Leu Asn Gly Ile Asp Pro Glu Gly Tyr Leu Arg His Ile
 65 70 75 80
 Leu Ser Val Leu Pro Glu Trp Pro Ile Asn Lys Val Ala Glu Leu Leu
 85 90 95
 Pro Trp Asn Val Asp Leu Thr Asn Lys
 100 105

<210> 9284
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 9284
 Leu Phe Gly Tyr Val Asn Thr Gly Asp Pro Thr Met Lys Lys Ile Leu
 1 5 10 15
 Val Ser Phe Val Ala Ile Met Ala Ala Ser Ser Ala Met Ala Ala
 20 25 30
 Glu Thr Met Asn Met His Asp Gln Val Asn Asn Ala Gln Ala Pro Ala
 35 40 45
 His Gln Met Gln Ser Ser Ala Glu Lys Ser Ala Ile Gln Gly Asp Ser
 50 55 60
 Met Thr Met Met Asp Met Ser Ser His Asp Gln Ala Ala Met Ser His
 65 70 75 80
 Asp Met Met Gln Asn Ser Asn Ser Ala Ala His Gln Asp Met Ala Glu
 85 90 95
 Met His Lys Lys Met Met Lys Ala Lys Pro Gly Ala Thr Asn Glu Thr
 100 105 110
 Ala Lys Ser Phe Ser Glu Met Ser Glu His Glu Lys Ala Ala Ala Val
 115 120 125
 His Glu Lys Ala Asn Asn Gly Gln Ser Ser Val Val His Gln Gln Gln
 130 135 140
 Ala Asp Lys His Arg Ser Gln Ile Thr Gln Asn
 145 150 155

<210> 9285
 <211> 233
 <212> PRT

<213> Enterobacter cloacae

<400> 9285

Gly Thr Ile Cys Pro Arg Gly Leu Thr Met Ile Arg Phe Glu His Val
 1 5 10 15
 Ser Lys Ala Tyr Leu Gly Gly Arg Gln Ala Leu Gln Gly Val Thr Phe
 20 25 30
 His Leu Gln Pro Gly Glu Met Ala Phe Leu Thr Gly His Ser Gly Ala
 35 40 45
 Gly Lys Ser Thr Leu Leu Lys Leu Ile Cys Gly Ile Glu Arg Pro Ser
 50 55 60
 Ala Gly Lys Ile Trp Phe Ser Gly His Glu Ile Ser Arg Leu Lys Asn
 65 70 75 80
 Arg Glu Val Pro Phe Leu Arg Arg Gln Ile Gly Met Ile Phe Gln Asp
 85 90 95
 His His Leu Leu Met Asp Arg Thr Val Phe Asp Asn Val Ala Ile Pro
 100 105 110
 Leu Ile Ile Ala Gly Ala Ser Tyr Asp Asp Ile Arg Arg Val Ser
 115 120 125
 Ala Ala Leu Asp Lys Val Gly Leu Leu Asp Lys Ala Lys Asn Phe Pro
 130 135 140
 Ile Gln Leu Ser Gly Gly Glu Gln Gln Arg Val Gly Ile Ala Arg Ala
 145 150 155 160
 Val Val Asn Lys Pro Ala Val Leu Leu Ala Asp Glu Pro Thr Gly Asn
 165 170 175
 Leu Asp Asp Ala Leu Ser Glu Gly Ile Leu Arg Leu Phe Glu Glu Phe
 180 185 190
 Asn Arg Val Gly Val Thr Val Leu Met Ala Thr His Asp Met Gly Leu
 195 200 205
 Ile Ser Arg Arg Ser Tyr Arg Met Leu Thr Leu Ser Asp Gly His Leu
 210 215 220
 His Gly Gly His Gly Glu Gln Ala
 225 230

<210> 9286

<211> 448

<212> FRT

<213> Enterobacter cloacae

<400> 9286

Arg Pro Leu Trp Arg Ile Pro Cys Pro Trp Gln Thr Leu Thr Asp Ala
 1 5 10 15
 Leu Ser Arg Arg Leu Ser Glu Gly Asp Arg Val Lys Asn Asn Glu Leu
 20 25 30
 Asn Asp Arg Arg Leu Gln Ala Thr Pro Arg Gly Ile Gly Val Met Cys
 35 40 45
 Asn Phe Tyr Ala Asp Lys Ala Glu Asn Ala Thr Val Trp Asp Val Glu
 50 55 60
 Gly Asn Glu Tyr Ile Asp Phe Ala Ala Gly Ile Ala Val Leu Asn Thr
 65 70 75 80
 Gly His Arg His Pro Lys Val Ile Ala Ala Val Glu Lys Gln Leu His
 85 90 95
 Ala Phe Thr His Thr Ala Tyr Gln Ile Val Pro Tyr Glu Gly Tyr Val
 100 105 110
 Ser Leu Ala Glu Arg Ile Asn Gln Arg Val Pro Ile Glu Gly Pro Ala
 115 120 125
 Lys Thr Ala Phe Phe Ser Thr Gly Ala Glu Ala Val Glu Asn Ala Val
 130 135 140
 Lys Ile Ala Arg Ala Tyr Thr Arg Arg Ser Gly Leu Ile Thr Phe Gly
 145 150 155 160
 Gly Ala Phe His Gly Arg Thr Phe Met Thr Met Ala Leu Thr Gly Lys

165 170 175
 Val Ala Pro Tyr Lys Leu Gly Phe Gly Pro Phe Pro Gly Ser Val Tyr
 180 185 190
 His Ala Gln Phe Pro Asn Ser Leu His Gly Val Ser Thr Ala Glu Ala
 195 200 205
 Leu Lys Ser Leu Glu Arg Ile Phe Lys Ala Asp Ile Ala Pro Asp Gln
 210 215 220
 Val Ala Ala Ile Ile Ile Glu Pro Val Gln Gly Glu Gly Gly Phe Asn
 225 230 235 240
 Val Ala Pro Ala Asp Phe Met Gln Ala Leu Arg Ala Leu Cys Asp Thr
 245 250 255
 His Gly Ile Leu Leu Ile Ala Asp Glu Val Gln Thr Gly Phe Ala Arg
 260 265 270
 Thr Gly Lys Leu Phe Ser Met Glu Asn His Cys Val Lys Pro Asp Leu
 275 280 285
 Ile Thr Met Ala Lys Ser Leu Ala Gly Gly Met Pro Leu Ser Ala Val
 290 295 300
 Ser Gly Arg Ala Glu Val Met Asp Ala Pro Ala Pro Gly Gly Leu Gly
 305 310 315 320
 Gly Thr Tyr Ala Gly Asn Pro Leu Ala Ile Ala Ala His Ala Val
 325 330 335
 Leu Asp Val Ile Asp Glu Asp Asp Leu Cys Thr Arg Ala Ala His Leu
 340 345 350
 Gly His His Leu Val Glu Val Leu Asn Lys Ala Lys Asp Gly Cys Pro
 355 360 365
 Tyr Ile Ala Asp Ile Arg Gly Gln Gly Ser Met Val Ala Val Glu Phe
 370 375 380
 Thr Asp Pro Gln Thr Gly Gln Pro Ser Pro Glu Phe Thr Arg Gln Val
 385 390 395 400
 Gln Glu Arg Ala Leu Asn Glu Gly Leu Leu Leu Leu Ser Cys Gly Val
 405 410 415
 Tyr Gly Asn Val Ile Arg Phe Leu Tyr Pro Leu Thr Ile Pro Glu Ala
 420 425 430
 Gln Phe Arg Lys Ala Leu Asp Ile Ile Ser Ala Ser Leu Thr Arg
 435 440 445

<210> 9287

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 9287

Lys Tyr Arg Met Leu Phe Asn His Asn Lys Thr Lys Tyr Lys His Asp
 1 5 10 15
 Ile Thr Asn Gly Asp Ser Glu Met Lys Arg Asn Ala Lys Thr Leu Ile
 20 25 30
 Ala Gly Met Val Ala Leu Ser Ile Ser His Ala Ala Met Ala Asp Asp
 35 40 45
 Ile Lys Val Ala Val Val Gly Ala Met Ser Gly Pro Val Ala Gln Trp
 50 55 60
 Gly Asp Met Glu Phe Asn Gly Ala Arg Gln Ala Ile Lys Asp Ile Asn
 65 70 75 80
 Ala Lys Gly Gly Ile Lys Gly Asp Lys Leu Val Gly Val Glu Tyr Asp
 85 90 95
 Asp Ala Cys Asp Pro Val Leu Thr Pro Gly Ala Arg Ile Asn Ala Ser
 100 105 110

<210> 9288

<211> 366

<212> PRT

<213> Enterobacter cloacae

<400> 9288

```

Arg Asp Ala Ser Leu Thr Gly Pro Arg Phe Leu Leu Cys Ala Trp Cys
1      5      10      15
Phe Val Phe Leu Lys Gly Leu Ser Met Ser Ala Ala His Leu Gly Phe
20      25      30
Pro Thr Glu Thr Val Val Val Phe Val Val Met Ala Val Gly Ala Met
35      40      45
Phe Ile Asp Leu Phe Met His Arg His Asp Lys Pro Ile Ser Leu Lys
50      55      60
Ser Ala Val Met Trp Ser Ile Phe Trp Val Met Met Ala Met Ala Phe
65      70      75      80
Ala Gly Phe Leu Tyr Val His His Gly Ala Glu Met Ala Ser Leu Phe
85      90      95
Leu Thr Gly Tyr Ala Leu Glu Glu Val Leu Ser Val Asp Asn Leu Phe
100     105     110
Val Met Met Ala Ile Phe Ala Trp Phe Gly Val Pro Asp Arg Tyr Arg
115     120     125
His Arg Val Leu Tyr Trp Gly Val Leu Gly Ala Ile Val Phe Arg Gly
130     135     140
Ile Phe Val Ala Ile Gly Thr Ser Leu Leu Ser Leu Gly Pro Tyr Val
145     150     155     160
Glu Val Ile Phe Ala Leu Val Val Gly Trp Thr Ala Val Met Met Leu
165     170     175
Lys Arg Asn Glu Glu Ser Asp Glu Val Glu Asp Tyr Ser Asn His Leu
180     185     190
Ala Tyr Arg Leu Val Lys Arg Phe Tyr Pro Val Trp Pro Lys Ile Ser
195     200     205
Ser His Ala Phe Ile Leu Thr Gln Lys Glu Val Asp Ala Glu Leu Glu
210     215     220
Lys Pro Glu Asn Lys Asp Val Met Val Gly Arg Val Lys Lys Ala Lys
225     230     235     240
Arg Tyr Ala Thr Pro Leu Leu Leu Cys Val Ala Val Val Glu Leu Ser
245     250     255
Asp Val Met Phe Ala Phe Asp Ser Val Pro Ala Ile Ile Ala Val Ser
260     265     270
Arg Glu Pro Leu Ile Ile Tyr Ser Ala Met Met Phe Ala Ile Leu Gly
275     280     285
Leu Arg Thr Leu Tyr Phe Val Leu Glu Ala Leu Lys Gln Tyr Leu Val
290     295     300
His Leu Glu Lys Ala Val Val Leu Leu Leu Phe Phe Val Ala Phe Lys
305     310     315     320
Leu Gly Leu Asn Ala Thr Asp His Phe Trp His His Gly Tyr Asn Ile
325     330     335
Gly Ala Thr Ala Ser Leu Phe Val Val Leu Gly Val Leu Ala Leu Gly
340     345     350
Ile Ile Ala Ser Val Met Phe Pro Gly Lys Arg Glu Ala
355     360     365

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<210> 9289

<211> 182

<212> PRT

<213> *Enterobacter cloacae*

<400> 9289

```

Arg Gly Thr Ile Val Ser Ser Lys Gln Arg Arg His Arg Met Ser Thr
1      5      10      15
Phe Asp Lys His Asp Leu Ser Gly Phe Val Gly Lys His Leu Val Tyr
20      25      30
Thr Tyr Asp Asn Gly Trp Asn Tyr Glu Ile Tyr Val Lys Asn Glu Asn
35      40      45

```

Thr Leu Asp Tyr Arg Ile His Ser Gly Leu Val Gly Asn Arg Trp Val
 50 55 60
 Lys Asp Gln Gln Ala Tyr Ile Val Arg Val Gly Glu Ser Ile Tyr Lys
 65 70 75 80
 Ile Ser Trp Thr Glu Pro Thr Gly Thr Asp Val Ser Leu Ile Val Asn
 85 90 95
 Leu Gly Asp Arg Leu Phe His Gly Thr Ile Phe Phe Pro Arg Trp Val
 100 105 110
 Met Asn Asn Pro Glu Lys Thr Val Cys Phe Gln Asn Asp His Ile Pro
 115 120 125
 Leu Met Asn Ser Tyr Arg Asp Ala Gly Pro Ala Tyr Pro Thr Glu Val
 130 135 140
 Ile Asp Glu Phe Ala Ala Ile Thr Phe Val Arg Asp Cys Gly Ala Asn
 145 150 155 160
 Asp Asp Ser Val Ile Asn Cys Ala Ala Ser Glu Leu Pro Ala Asn Phe
 165 170 175
 Pro Glu Asn Leu Lys
 180

<210> 9290
 <211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 9290
 Thr Ala Val Thr Gly His Ser Arg Ala Val Asn Ala Leu Arg Pro Ser
 1 5 10 15
 Ser Trp Gln Thr Arg Ser Ile Arg Arg Met Pro His Asn Pro Phe Thr
 20 25 30
 Ser Cys Cys Cys Ala Gln Cys Cys Glu Arg Arg Arg Ile Ser Arg Glu
 35 40 45
 Gly Met Arg Gly Ser Met Leu Arg Asn Arg Arg Val Cys Ile Asn Glu
 50 55 60
 Met Arg Thr Leu Ser Phe Arg Ala Ser Lys Trp Asp Thr Pro Ser Gly
 65 70 75 80
 Gly

<210> 9291
 <211> 95
 <212> PRT
 <213> Enterobacter cloacae

<400> 9291
 Arg Gly Val Asn Tyr Ser Arg Phe Tyr Leu Asn Glu Lys Lys Met Thr
 1 5 10 15
 Asp Leu Phe Ser Ser Pro Asp His Thr Leu Asp Ala Gln Gly Leu Arg
 20 25 30
 Cys Pro Glu Pro Val Met Met Val Arg Lys Thr Val Arg Asn Met Gln
 35 40 45
 Ser Gly Glu Thr Leu Leu Ile Val Ala Asp Asp Pro Ala Thr Thr Arg
 50 55 60
 Asp Ile Pro Gly Phe Cys Thr Phe Met Glu His Glu Leu Val Ala Gln
 65 70 75 80
 Gln Thr Glu Thr Leu Pro Tyr Arg Tyr Leu Ile Arg Lys Gly
 85 90 95

<210> 9292
 <211> 334
 <212> PRT
 <213> Enterobacter cloacae

<400> 9292

Arg Leu Ser His Tyr Pro Gly Val Asp Leu Met Lys Thr Thr Leu Lys
 1 5 10 15
 Pro Leu Leu Ala Ala Leu Cys Leu Thr Ala Phe Ala Cys Thr Val Ser
 20 25 30
 Ala Gln Thr Ile Lys Ala Ala Asp Val His Pro Glu Gly Tyr Pro Asn
 35 40 45
 Val Val Ala Val Gln His Met Gly Glu Lys Leu Lys Gln Thr Asp
 50 55 60
 Gly Lys Leu Glu Ile Lys Val Phe Pro Gly Gly Val Leu Gly Asp Glu
 65 70 75 80
 Lys Gln Met Ile Glu Gln Ala Gln Met Gly Ala Ile Asp Met Ile Arg
 85 90 95
 Val Ser Met Ala Pro Val Ala Ala Ile Leu Pro Asp Ile Glu Val Phe
 100 105 110
 Thr Leu Pro Tyr Val Phe Arg Asp Glu Asp His Met His Lys Val Ile
 115 120 125
 Asp Gly Asp Ile Gly Lys Gln Ile Gly Asp Lys Leu Thr Ala Asn Pro
 130 135 140
 Lys Ser Arg Leu Val Phe Leu Gly Trp Met Asp Ser Gly Thr Arg Asn
 145 150 155 160
 Leu Ile Thr Lys Glu Pro Ile Val Lys Pro Asp Asp Leu Lys Gly Lys
 165 170 175
 Lys Ile Arg Val Gln Gly Ser Pro Val Ala Leu Ala Thr Leu Lys Ala
 180 185 190
 Met Gly Ala Asn Ser Val Ala Met Gly Val Ser Glu Val Tyr Ser Gly
 195 200 205
 Met Gln Thr Gly Val Ile Asp Gly Ala Glu Asn Asn Pro Pro Thr Phe
 210 215 220
 Ile Ala His Asn Tyr Met Pro Val Ala Lys Asn Tyr Thr Leu Ser Gly
 225 230 235 240
 His Phe Ile Thr Pro Glu Met Leu Leu Tyr Ser Lys Val Lys Trp Asp
 245 250 255
 Lys Leu Ser Ala Asp Glu Gln Gln Lys Ile Leu Thr Leu Ala Arg Glu
 260 265 270
 Ala Gln Phe Glu Gln Arg Lys Leu Trp Asn Ala Tyr Asn Asp Gln Ala
 275 280 285
 Leu Ala Lys Met Lys Ala Gly Gly Val Gln Phe His Asp Ile Asp Lys
 290 295 300
 Thr Val Phe Ile Lys Ala Thr Glu Pro Val Arg Ala Gln Tyr Gly Asp
 305 310 315 320
 Lys His Gln Asp Leu Met Lys Ala Ile Ala Asp Val Gln
 325 330

<210> 9293

<211> 174

<212> PRT

<213> *Enterobacter cloacae*

<400> 9293

Ala Gly Val Arg Met Ser Glu Leu Tyr Leu Lys Trp Met Asp Arg Leu
 1 5 10 15
 Tyr Leu Leu Ala Met Val Val Ala Gly Leu Ser Leu Leu Val Met Thr
 20 25 30
 Ile Val Ile Pro Ile Gly Ile Phe Ser Arg Tyr Val Leu Asn Arg Gly
 35 40 45
 Glu Ser Trp Pro Glu Pro Ile Ala Ile Ile Cys Met Val Thr Phe Thr
 50 55 60
 Phe Ile Gly Ala Ala Val Ser Tyr Arg Ala Gly Ser His Ile Ala Val
 65 70 75 80

Asn Met Leu Thr Asp Arg Leu Pro Ala Ser Leu Gln Arg Val Cys Ala
 85 90 95
 Arg Val Val Asp Leu Leu Met Leu Leu Ile Ser Gly Leu Met Cys Trp
 100 105 110
 Tyr Ser Tyr Trp Leu Cys Val Glu Leu Trp Glu Gln Pro Val Ala Glu
 115 120 125
 Phe Pro Leu Leu Thr Ser Gly Glu Ser Tyr Leu Pro Leu Pro Val Gly
 130 135 140
 Ser Ala Ile Leu Ile Leu Phe Val Leu Glu Arg Leu Leu Phe Gly Ser
 145 150 155 160
 Gln Glu Asn Arg Pro Val Val Leu Ile Gly Asn His Ser
 165 170

<210> 9294

<211> 489

<212> PRT

<213> Enterobacter cloacae

<400> 9294

Ser Gln Met Ala Lys Gln Lys Lys Arg Gly Phe Phe Ser Trp Leu Gly
 1 5 10 15
 Phe Gly Glu Lys Glu Gln Glu Thr Glu Gln Lys Thr Glu Glu Gln Gln
 20 25 30
 Val Val Glu Glu Gln Ser Gln Pro Glu Thr Pro Val Glu Thr Ala Ala
 35 40 45
 Val Val Glu Ala Glu Glu Pro Ala His Ser Lys Glu Glu Ile Glu Ser
 50 55 60
 Phe Ala Glu Glu Val Val Glu Val Thr Glu Gln Val Gln Glu Ser Glu
 65 70 75 80
 Lys Pro Glu Pro Val Ile Val Glu Thr Leu Thr Glu Ala Pro Gln Ala
 85 90 95
 Ala Ile Glu His Glu Ala Leu Pro Leu Pro Glu Glu Val Lys Ala Glu
 100 105 110
 Glu Val Ser Ala Glu Glu Trp Gln Ala Glu Ala Glu Thr Val Glu Ile
 115 120 125
 Val Glu Ala Val Glu Glu Glu Ala Ala Leu Glu Pro Glu Leu Thr Asp
 130 135 140
 Glu Glu Leu Glu Ala Gln Ala Leu Ala Ala Glu Ala Ala Glu Glu Ala
 145 150 155 160
 Val Ile Val Val Pro Val Glu Glu Gln Ala Glu Glu Glu Ile Val Gln
 165 170 175
 Glu Gln Glu Lys Pro Thr Lys Glu Gly Phe Phe Ala Arg Leu Lys Arg
 180 185 190
 Ser Leu Leu Lys Thr Lys Glu Asn Leu Gly Ser Gly Phe Ile Ser Leu
 195 200 205
 Phe Arg Gly Lys Lys Ile Asp Asp Asp Leu Phe Glu Glu Leu Glu Glu
 210 215 220
 Gln Leu Leu Ile Ala Asp Val Gly Val Glu Thr Thr Arg Lys Ile Ile
 225 230 235 240
 Ala Asn Leu Thr Glu Gly Ala Ser Arg Lys Gln Leu Arg Asp Ala Glu
 245 250 255
 Ala Leu Tyr Gly Leu Leu Lys Asp Glu Met Gly Glu Ile Leu Ala Lys
 260 265 270
 Val Asp Glu Pro Leu Asn Ile Glu Gly Lys Met Pro Phe Val Ile Leu
 275 280 285
 Met Val Gly Val Asn Gly Val Gly Lys Thr Thr Thr Ile Gly Lys Leu
 290 295 300
 Ala Arg Gln Phe Glu Gln Gln Gly Lys Ser Val Met Leu Ala Ala Gly
 305 310 315 320
 Asp Thr Phe Arg Ala Ala Val Glu Gln Leu Gln Val Trp Gly Gln
 325 330 335

Arg Asn Asn Ile Pro Val Ile Ala Gln His Thr Gly Ala Asp Ser Ala
 340 345 350
 Ser Val Ile Phe Asp Ala Ile Gln Ala Ala Lys Ser Arg Asn Val Asp
 355 360 365
 Val Leu Ile Ala Asp Thr Ala Gly Arg Leu Gln Asn Lys Ser His Leu
 370 375 380
 Met Glu Glu Leu Lys Lys Ile Val Arg Val Met Lys Lys Leu Asp Glu
 385 390 395 400
 Asp Ala Pro His Glu Ile Met Leu Thr Ile Asp Ala Ser Thr Gly Gln
 405 410 415
 Asn Ala Ile Ser Gln Ala Lys Leu Phe His Glu Ala Val Gly Leu Thr
 420 425 430
 Gly Ile Thr Leu Thr Lys Leu Asp Gly Thr Ala Lys Gly Val Ile
 435 440 445
 Phe Ser Val Ala Asp Gln Phe Gly Ile Pro Ile Arg Tyr Ile Gly Val
 450 455 460
 Gly Glu Arg Ile Glu Asp Leu Arg Pro Phe Lys Ala Asp Asp Phe Ile
 465 470 475 480
 Glu Ala Leu Phe Ala Arg Glu Asp
 485

<210> 9295

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 9295

Ala Met Gly Ile Cys Thr Glu Ala Thr Val Asn Lys Arg Asp Ala Met
 1 5 10 15
 Asn Gln Ile Arg Gln Phe Ser Asn Arg Phe Asp Arg Phe Arg Lys Pro
 20 25 30
 Gln Gly Gly Gly Asp Gly Asn Arg Asn Ala Pro Lys Arg Ala Lys Ala
 35 40 45
 Thr Pro Lys Pro Asn Ser Arg Lys Thr Asn Val Phe Asn Glu Gln Val
 50 55 60
 Arg Tyr Ala Phe Gln Gly Ala Leu Gln Asp Leu Lys Ser Lys Pro Leu
 65 70 75 80
 Ala Thr Phe Leu Thr Val Met Val Ile Ala Ile Ser Leu Thr Leu Pro
 85 90 95
 Ser Val Cys Tyr Met Val Tyr Lys Asn Val Asn Gln Ala Ala Ser Gln
 100 105 110
 Tyr Tyr Pro Ser Pro Gln Ile Thr Val Tyr Leu Asp Lys Ala Leu Asp
 115 120 125
 Asp Asn Ala Ala Ala Gln Val Val Gly Gln Ile Gln Ala Glu Gln Gly
 130 135 140
 Val Glu Lys Val Asn Tyr Leu Ser Arg Asp Glu Ala Leu Gly Glu Phe
 145 150 155 160
 Arg Asn Trp Ser Gly Phe Gly Gly Ala Leu Asp Met Leu Glu Glu Asn
 165 170 175
 Pro Leu Pro Ala Val Ala Val Val Ile Pro Lys Leu Asp Phe Gln Gly
 180 185 190
 Thr Asp Ser Leu Asn Thr Leu Arg Asp Arg Ile Thr Arg Ile Asn Gly
 195 200 205
 Ile Asp Glu Val Arg Met Asp Asp Ser Trp Phe Ala Arg Leu Ala Ala
 210 215 220
 Leu Thr Gly Leu Val Gly Arg Val Ser Ala Met Ile Gly Val Leu Met
 225 230 235 240
 Val Ala Ala Val Phe Leu Val Ile Gly Asn Ser Val Arg Leu Ser Ile
 245 250 255
 Phe Ala Arg Arg Asp Thr Ile Asn Val Gln Lys Leu Ile Gly Ala Thr
 260 265 270

Asp Gly Phe Ile Leu Arg Pro Phe Leu Tyr Gly Gly Ala Leu Leu Gly
 275 280 285
 Phe Ser Gly Ala Phe Leu Ser Leu Ile Leu Ser Glu Ile Leu Val Met
 290 295 300
 Arg Leu Ser Ser Ala Val Thr Glu Val Ala Gln Val Phe Gly Thr Lys
 305 310 315 320
 Phe Asp Ile Ser Gly Leu Gly Phe Asp Glu Cys Leu Leu Leu Leu Leu
 325 330 335
 Val Cys Ser Met Ile Gly Trp Val Ala Ala Trp Leu Ala Thr Val Gln
 340 345 350
 His Leu Arg His Phe Thr Pro Asp
 355 360

<210> 9296

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 9296

Thr Met Asp Ala Phe Val Leu Leu Phe Thr Leu Ala Ile Leu Leu Ala
 1 5 10 15
 Leu Gly Met Pro Val Ala Phe Ala Val Gly Leu Ser Ala Val Ala Gly
 20 25 30
 Ala Leu Trp Ile Asp Leu Pro Leu Glu Ala Leu Met Ile Gln Ile Thr
 35 40 45
 Ser Gly Val Asn Lys Phe Thr Leu Leu Ala Ile Pro Phe Phe Ile Leu
 50 55 60
 Ala Gly Ala Ile Met Ala Glu Gly Gly Ile Ala Arg Arg Leu Val Asn
 65 70 75 80
 Phe Ala Tyr Val Phe Val Gly Phe Ile Arg Gly Gly Leu Ser Leu Val
 85 90 95
 Asn Ile Val Ala Ser Thr Phe Phe Gly Ala Ile Ser Gly Ser Ser Val
 100 105 110
 Ala Asp Thr Ala Ser Ile Gly Ser Val Met Ile Pro Glu Met Glu Lys
 115 120 125
 Lys Gly Tyr Pro Arg Glu Tyr Ala Ala Val Thr Ala Ser Gly Ser
 130 135 140
 Val Gln Ala Ile Leu Ile Pro Pro Ser His Asn Ser Val Ile Tyr Ser
 145 150 155 160
 Leu Ala Ala Gly Gly Thr Val Ser Ile Ala Thr Leu Phe Ile Ala Gly
 165 170 175
 Val Leu Pro Gly Leu Leu Leu Gly Val Ser Leu Met Val Leu Cys Leu
 180 185 190
 Cys Phe Ala Arg Lys Arg Gly Tyr Pro Lys Gly Asp Lys Ile Pro Phe
 195 200 205
 Arg Gln Ala Leu Lys Ile Met Leu Asp Ala Leu Trp Gly Leu Met Thr
 210 215 220
 Val Val Ile Ile Leu Gly Gly Ile Leu Ser Gly Ile Phe Thr Ala Thr
 225 230 235 240
 Glu Ser Ala Ala Val Ala Cys Leu Trp Ala Phe Phe Val Thr Met Phe
 245 250 255
 Ile Tyr Arg Asp Tyr Lys Trp Ser Glu Leu Pro Lys Leu Met Cys Arg
 260 265 270
 Thr Val Lys Thr Val Thr Ile Val Met Ile Leu Ile Gly Phe Ala Ala
 275 280 285
 Ala Phe Gly Ala Val Met Thr Tyr Met Gln Leu Pro Met Arg Ile Thr
 290 295 300
 Glu Phe Phe Thr Ser Leu Ser Asp Asn Lys Tyr Val Ile Leu Met Tyr
 305 310 315 320
 Leu Asn Ile Met Leu Leu Leu Ile Gly Thr Leu Met Asp Met Ala Pro
 325 330 335

Ile Ile Leu Ile Leu Thr Pro Val Leu Leu Pro Val Thr Asn Ser Leu
 340 345 350
 Gly Ile Asp Pro Val His Phe Gly Met Ile Met Met Val Asn Leu Gly
 355 360 365
 Ile Gly Leu Ile Thr Pro Pro Val Phe Gly Ser Val Leu Phe Val Ala Ser
 370 375 380
 Ala Val Ser Lys Gln Lys Ile Glu His Val Val Arg Ala Met Leu Pro
 385 390 395 400
 Phe Tyr Gly Met Leu Leu Val Val Leu Gly Met Val Thr Tyr Ile Pro
 405 410 415
 Ala Ile Ser Leu Trp Leu Pro Gly Leu Leu Gly Met Gln
 420 425 430

<210> 9297

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9297

Trp Asp Phe Ser Met Ser Lys Met Pro Leu Phe Phe Ile Ile Val Val
 1 5 10 15
 Ala Ile Ile Val Ile Ala Ala Ser Phe Arg Phe Val Gln Gln Arg Arg
 20 25 30
 Glu Lys Ala Asp Asn Asp Ala Ala Pro Leu Met Gln Lys Arg Val Val
 35 40 45
 Val Thr Asn Lys Arg Glu Lys Pro Leu Asn Asp Arg Arg Ser Arg Gln
 50 55 60
 Gln Gln Val Thr Pro Ala Gly Thr Thr Met Arg Tyr Glu Ala Ser Phe
 65 70 75 80
 Lys Pro Glu Thr Gly Gly Leu Glu Met Thr Phe Arg Leu Glu Ala Gln
 85 90 95
 Gln Tyr His Gln Leu Thr Val Gly Glu Lys Gly Thr Leu Ser Tyr Lys
 100 105 110
 Gly Ser Arg Phe Val Gly Phe Arg Ala Glu
 115 120

<210> 9298

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 9298

Met Thr Lys Glu Met Gln Thr Leu Ala Leu Ala Pro Val Gly Asn Leu
 1 5 10 15
 Glu Ser Tyr Ile Arg Ala Ala Asn Thr Trp Pro Met Leu Thr Ala Glu
 20 25 30
 Glu Glu Lys Glu Leu Ala Glu Lys Leu His Tyr Gln Gly Asp Leu Glu
 35 40 45
 Ala Ala Lys Thr Leu Ile Leu Ser His Leu Arg Phe Val Val His Val
 50 55 60
 Ala Arg Asn Tyr Ala Gly Tyr Gly Leu Pro Gln Ala Asp Leu Ile Gln
 65 70 75 80
 Glu Gly Asn Ile Gly Leu Met Lys Ala Val Arg Arg Phe Asn Pro Glu
 85 90 95
 Val Gly Val Arg Leu Val Ser Phe Ala Val His Trp Ile Lys Ala Glu
 100 105 110
 Ile His Glu Tyr Val Leu Arg Asn Trp Arg Ile Val Lys Val Ala Thr
 115 120 125
 Thr Lys Ala Gln Arg Lys Leu Phe Phe Asn Leu Arg Lys Thr Lys Gln
 130 135 140
 Arg Leu Gly Trp Phe Asn Gln Asp Glu Val Glu Met Val Ala Arg Glu

145		150		155		160
Leu Gly Val Ser Ser	Lys Asp Val Arg	Glu Met Glu Ser Arg Met Ala				
	165	170	175			
Ala Gln Asp Met Thr Phe Asp Met Ser Ala Asp Asp Ala Ser Asp						
	180	185	190			
Ser Gln Pro Met Ala Pro Val Leu Tyr Leu Gln Asp Lys Thr Ser Asn						
	195	200	205			
Phe Ala Asp Gly Ile Glu Glu Asp Asn Trp Glu Asp Gln Ala Ala Asn						
	210	215	220			
Lys Leu Thr Phe Ala Met Glu Gly Leu Asp Glu Arg Ser Gln Asp Ile						
	225	230	235			
Ile Arg Ala Arg Trp Leu Asp Glu Asp Asn Lys Ser Thr Leu Gln Glu						
	245	250	255			
Leu Ala Asp Arg Tyr Gly Val Ser Ala Glu Arg Val Arg Gln Leu Glu						
	260	265	270			
Lys Asn Ala Met Lys Lys Leu Arg Ala Ala Ile Glu Ala						
	275	280	285			

<210> 9299

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 9299

Asn Lys Ala Leu His Asn Asn Ile Thr Thr Ile Val Ile Thr Ile Ile			
1	5	10	15
Met Gly Asn Leu Arg Met Asn Met Lys Gly Lys Ala Leu Leu Ala Gly			
	20	25	30
Cys Ile Ala Leu Ala Phe Ser Ala Met Ala Gln Ala Asp Ile Lys Val			
	35	40	45
Ala Val Val Gly Ala Met Ser Gly Pro Val Ala Gln Tyr Gly Asp Gln			
	50	55	60
Glu Phe Thr Gly Ala Glu Gln Ala Val Ala Asp Ile Asn Ala Lys Gly			
	65	70	75
Gly Ile Lys Gly Glu Lys Leu Gln Ile Val Lys Tyr Asp Asp Ala Cys			
	85	90	95
Asp Pro Lys Gln Ala Val Ala Val Ala Asn Lys Val Val Asn Asp Gly			
	100	105	110
Ile Lys Tyr Val Ile Gly His Leu Cys Ser Ser Ser Thr Gln Pro Ala			
	115	120	125
Ser Asp Ile Tyr Glu Asp Glu Gly Ile Leu Met Ile Thr Pro Ala Ala			
	130	135	140
Thr Ala Pro Glu Leu Thr Ala Arg Gly Tyr Lys Leu Ile Leu Arg Thr			
	145	150	155
Thr Gly Leu Asp Ser Asp Gln Gly Pro Thr Ala Ala Lys Tyr Ile Val			
	165	170	175
Glu Lys Val Lys Pro Gln Arg Ile Ala Ile Val His Asp Lys Gln Gln			
	180	185	190
Tyr Gly Glu Gly Leu Ala Arg Ala Val Gln Asp Asn Leu Lys Lys Ala			
	195	200	205
Asn Ala Asn Val Val Phe Phe Asp Gly Ile Thr Ala Gly Glu Lys Asp			
	210	215	220
Phe Ser Thr Leu Val Ala Arg Leu Lys Lys Glu Asn Ile Asp Phe Val			
	225	230	235
Tyr Tyr Gly Gly Tyr His Pro Glu Met Gly Gln Ile Leu Arg Gln Ala			
	245	250	255
Arg Ala Ala Gly Leu Lys Thr Gln Phe Met Gly Pro Glu Gly Val Ala			
	260	265	270
Asn Val Ser Leu Ser Asn Ile Ala Gly Glu Ser Ala Glu Gly Leu Leu			
	275	280	285
Val Thr Lys Pro Lys Asn Tyr Asp Gln Val Pro Ala Asn Lys Pro Val			

290 295 300
 Val Asp Ala Ile Lys Ala Lys Lys Gln Asp Pro Ser Gly Ala Phe Val
 305 310 315 320
 Trp Thr Thr Tyr Ala Ala Leu Gln Ser Leu Gln Ala Gly Leu Asn Gln
 325 330 335
 Ser Ala Asp Pro Ala Glu Ile Ala Thr Trp Leu Lys Ala Asn Ser Val
 340 345 350
 Glu Thr Val Met Gly Pro Leu Ser Trp Asp Glu Lys Gly Asp Leu Lys
 355 360 365
 Gly Phe Glu Phe Gly Val Phe Asp Trp His Ala Asn Gly Thr Ala Thr
 370 375 380
 Asp Ala Lys
 385

<210> 9300

<211> 798

<212> PRT

<213> *Enterobacter cloacae*

<400> 9300

Gly Thr Phe Met Leu Arg Tyr Ser Leu Leu Thr Ala Gly Leu Met Leu
 1 5 10 15
 Gly Ala Ser Ala Phe Ala Ala Pro Ala Gly Asp Leu Pro Leu Met Pro
 20 25 30
 Trp Pro Ala Lys Val Glu Arg Pro Thr Thr Gln Gly Ala Leu Glu Leu
 35 40 45
 Asn Asn Gln Leu Thr Val Ser Val Ser Gly Asp Asp Leu Gly Asp Ala
 50 55 60
 Val Asn Arg Leu Arg Gln Arg Ile Ala Leu Gln Thr Gly Trp Thr Leu
 65 70 75 80
 Gln Pro Gln Ala Glu Lys Pro Asp Lys Pro Thr Ile Arg Ile Ala Ile
 85 90 95
 Ala Lys Lys Val Lys Pro Gln Pro Leu Pro Asp Ser Asp Glu Ser Tyr
 100 105 110
 Lys Leu Thr Val Asp Ala Asn Gly Val Asn Ile Ser Ala Asn Thr Arg
 115 120 125
 Phe Gly Ala Leu Arg Ala Met Glu Thr Leu Leu Gln Leu Met Gln Asn
 130 135 140
 Gly Ala Glu Asn Thr Ser Ile Pro Trp Val Thr Ile Glu Asp Ser Pro
 145 150 155 160
 Arg Phe Pro Trp Arg Gly Leu Leu Leu Asp Ser Ala Arg His Phe Leu
 165 170 175
 Pro Ile Pro Asp Ile Lys Arg Gln Ile Asp Gly Met Ala Ala Ala Lys
 180 185 190
 Leu Asn Val Leu His Trp His Leu Thr Asp Asp Gln Gly Trp Arg Phe
 195 200 205
 Ser Ser Lys Arg Tyr Pro Lys Leu Thr Gln Leu Ala Ser Asp Gly Leu
 210 215 220
 Phe Tyr Thr Pro Glu Gln Met Arg Glu Ile Val Arg Tyr Ala Ala Glu
 225 230 235 240
 Arg Gly Ile Arg Val Val Pro Glu Ile Asp Met Pro Gly His Ala Ser
 245 250 255
 Ala Ile Ala Val Ala Tyr Pro Glu Leu Met Ser Ala Leu Gly Pro Tyr
 260 265 270
 Ala Met Glu Arg His Trp Gly Val Leu Lys Pro Val Leu Asp Pro Thr
 275 280 285
 Lys Glu Ala Thr Tyr Thr Phe Ala Asp Ala Met Val Ser Glu Leu Ala
 290 295 300
 Ala Ile Phe Pro Asp Pro Tyr Leu His Ile Gly Gly Asp Glu Val Asp
 305 310 315 320
 Asp Ser Gln Trp Lys Ala Asn Ala Ala Ile Gln Arg Phe Leu Arg Asp

<210> 9301

<211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 9301
 Ser Glu Gly Cys Ile Met Ile Ile Gly Asn Ile His His Leu Gln Ser
 1 5 10 15
 Trp Leu Pro Glu Glu Leu Arg Gln Ala Ile Glu His Val Lys Ala His
 20 25 30
 Val Thr Asp Ala Thr Pro Thr Gly Lys His Asp Ile Asn Gly Asn Ser
 35 40 45
 Leu Phe Tyr Leu Val Ser Glu Asp Met Thr Gln Pro Phe Ala Glu Arg
 50 55 60
 Arg Ala Glu Tyr His Ala Arg Tyr Leu Asp Ile Gln Ile Val Leu Lys
 65 70 75 80
 Gly Gln Glu Gly Met Thr Phe Ser Thr Leu Pro His Gly Thr Pro Asp
 85 90 95
 Thr Asp Trp Leu Ala Asp Lys Asp Ile Ala Phe Leu Pro Glu Gly Glu
 100 105 110
 Gln Glu Lys Thr Val Val Leu Ser Glu Gly Asp Phe Val Val Phe Trp
 115 120 125
 Pro Gly Glu Val His Lys Pro Leu Cys Ala Val Gly Ala Pro Ala Lys
 130 135 140
 Val Arg Lys Val Val Val Lys Met Leu Val Glu
 145 150 155

<210> 9302
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 9302
 Ala Met Ala Asn Pro Glu Leu Leu Glu Glu Gln Arg Glu Glu Thr Arg
 1 5 10 15
 Leu Ile Ile Glu Glu Leu Leu Glu Asp Gly Ser Asp Pro Asp Ala Leu
 20 25 30
 Tyr Thr Ile Glu His His Phe Ser Ala Asp Asp Phe Asp Ala Leu Glu
 35 40 45
 Lys Met Ala Val Glu Ala Phe Lys Leu Gly Tyr Glu Val Thr Glu Pro
 50 55 60
 Glu Glu Leu Glu Val Glu Glu Gly Asp Thr Val Ile Cys Cys Asp Ile
 65 70 75 80
 Leu Ser Glu Gly Ala Leu Lys Ala Glu Leu Ile Asp Ala Gln Val Glu
 85 90 95
 Gln Leu Met Asn Leu Ala Glu Lys Phe Glu Val Glu Tyr Asp Gly Trp
 100 105 110
 Gly Thr Tyr Phe Glu Asp Pro Asn Gly Glu Asp Gly Glu Glu Gly Asp
 115 120 125
 Asp Glu Asp Tyr Val Asp Glu Asp Asp Asp Gly Val Arg His
 130 135 140

<210> 9303
 <211> 1110
 <212> PRT
 <213> Enterobacter cloacae

<400> 9303
 Val Thr Gly Trp Gly Met Asp Ser Asn Thr Gln Gly Phe Thr Ser Tyr
 1 5 10 15
 Trp Arg Asn Thr Leu Ala Asp Ala Glu Ser Gly Lys Gly Ala Phe Glu
 20 25 30

Arg Lys Asp Glu Glu Ser Phe Thr Gln Trp Met Asn Val Asp Arg Gly
 35 40 45
 Arg Leu Asp Glu Glu Ile Val Gln Ala Phe Phe Glu Gly Glu Asp Glu
 50 55 60
 Gln Val Lys Thr Val Glu Val Met Leu Arg Pro Gln Val Trp Ile Arg
 65 70 75 80
 Leu Leu Lys His Gly Lys Glu Arg Thr Ala Gly Ala Pro Gly Ile Val
 85 90 95
 Thr Pro Leu Val Thr Ser Ala Leu Leu Asn Arg Glu Gly Phe Leu Phe
 100 105 110
 Pro Ala Ser Pro Ala Thr Ile Pro Arg Asp Leu Leu Glu Pro Leu Pro
 115 120 125
 Lys Gly Thr Phe Ser Ile Gly Glu Met Thr Glu Tyr Asp Arg Tyr Lys
 130 135 140
 Thr Thr His Asp Ser Val Thr Phe Gly Pro Gly Asp Glu Asp Glu Lys
 145 150 155 160
 Arg Glu Glu Thr Asp Glu Gln Arg Ala Glu Arg Tyr Ala Arg Tyr Lys
 165 170 175
 Gln Leu Trp Gln Thr Tyr Leu Lys Glu Thr Asn Glu Leu Leu Lys Ser
 180 185 190
 Val Ala Gly Lys Trp Leu Asp Ala Pro Glu Gln Tyr Glu Pro Ala Gly
 195 200 205
 Tyr Gly Tyr Val Ile Lys Ala Asn Gln Ser Gly Gly Ala Ser Ile His
 210 215 220
 Ile Leu Pro Met Tyr Asp His Leu Leu Ser Cys Lys Lys Glu Val Pro
 225 230 235 240
 Leu Leu Ala Arg Phe Ala Ser Lys Asp Lys Ser Pro Val Glu Pro Leu
 245 250 255
 Leu Ala Ser Asn Ala Met Phe Thr Glu Arg Leu Gly His Ser Gly Asp
 260 265 270
 Lys Phe Pro Leu Ala Val Ala Gln Arg Asp Ala Leu Ser His Tyr Leu
 275 280 285
 Thr Gln Gln Pro Gly Asp Ile Leu Ala Val Asn Gly Pro Pro Gly Thr
 290 295 300
 Gly Lys Thr Thr Leu Val Leu Ser Ile Ile Ala Thr Glu Trp Ala Arg
 305 310 315 320
 Ala Ala Leu Asn Lys Thr Glu Pro Pro Val Val Ile Ala Thr Ser Thr
 325 330 335
 Asn Asn Gln Ala Val Thr Asn Ile Ile Glu Ala Phe Gly Lys Asp Phe
 340 345 350
 Ala Thr Gly Ser Gly Pro Met Ala Gly Arg Trp Leu Pro Asp Val Lys
 355 360 365
 Ser Phe Gly Ala Tyr Phe Pro Ser Ser Ser Arg Lys Ala Glu Ala Ala
 370 375 380
 Lys Lys Tyr Gln Thr Glu Asp Phe Phe Asn Arg Val Glu Ser Leu Glu
 385 390 395 400
 Tyr Val Glu Asp Ala Arg Phe Phe Phe Leu Glu Lys Ala Ser Ala Ala
 405 410 415
 Phe Pro Thr Val Glu Cys His Ser Pro Glu Gln Val Val Asp Leu Leu
 420 425 430
 His Gln Arg Leu Val Glu Leu Ser Ala Glu Leu Glu Gln Ile Glu Pro
 435 440 445
 Ala Trp Asp Ala Leu Asn Ala Ile Arg Glu Glu Arg Ser Ala Val Ser
 450 455 460
 Asp Asp Leu Glu Gln Tyr Ile Glu Asp Lys Arg Thr Ser Leu Leu Asn
 465 470 475 480
 Ser Thr Asn Glu Ile Ser Leu Leu Thr Gln Gly Lys Lys Gln Trp Glu
 485 490 495
 Gln Tyr Arg Ala Gly Glu Ser Phe Met Phe Ala Leu Phe Ser Trp Leu
 500 505 510
 Pro Ala Val Arg Thr Lys Arg His Tyr Gln Met Lys Leu Phe Leu Glu

515					520					525					
Ala	Thr	Phe	Gly	Glu	Arg	Met	Thr	Ala	Phe	Gln	Gly	Ala	Leu	Pro	Asp
530						535					540				
Gly	Ile	Asp	Ala	Phe	Ile	Asn	Gly	Leu	Ile	Glu	Gln	Ala	Arg	Lys	Glu
545					550					555					560
Gln	Ala	Gly	Tyr	Gln	Gln	Gln	Met	Asp	Leu	Ala	Glu	Asp	Ile	Ser	Arg
				565					570					575	
Arg	Glu	Ser	Glu	Ala	Ala	Met	Arg	Trp	His	His	Ile	Thr	His	Ser	Leu
			580					585						590	
Gly	Asn	Pro	Gly	Glu	Thr	Glu	Leu	Ser	Leu	His	Glu	Ala	Asp	Glu	Leu
		595				600						605			
Ala	Asp	Thr	Gln	Leu	Arg	Phe	Pro	Met	Phe	Leu	Leu	Ala	Thr	His	Tyr
	610					615					620				
Trp	Glu	Gly	Arg	Trp	Leu	Met	Asp	Met	Ala	Ala	Ile	Asp	Asn	Ile	Gln
625					630					635					640
Lys	Glu	Lys	Gly	Arg	Thr	Gly	Ala	Lys	Ser	Thr	Lys	Ala	Arg	Trp	Gln
				645					650					655	
Arg	Arg	Met	Lys	Leu	Thr	Pro	Cys	Val	Val	Met	Thr	Cys	Phe	Met	Phe
			660					665					670		
Pro	Tyr	His	Met	Lys	Thr	Ser	Glu	Phe	Val	Gly	Gly	Asn	Lys	Lys	Phe
		675					680					685			
Asp	Asp	Asn	Tyr	Leu	Tyr	Asn	Phe	Ala	Asp	Leu	Leu	Ile	Val	Asp	Glu
	690					695					700				
Ala	Gly	Gln	Val	Leu	Pro	Glu	Val	Ala	Ala	Ala	Ser	Phe	Ala	Leu	Ala
705					710				715						720
Lys	Lys	Ala	Leu	Val	Ile	Gly	Asp	Thr	Glu	Gln	Ile	Ala	Pro	Ile	Trp
				725					730					735	
Asn	Ser	Leu	Pro	Gly	Ile	Asp	Ile	Gly	Asn	Met	Val	Glu	Glu	Asn	Ile
			740					745					750		
Leu	Pro	Gly	Gly	Thr	Gln	Glu	Glu	Leu	Thr	Glu	Ser	Tyr	Ala	Leu	Val
		755				760						765			
Cys	Asp	Ser	Gly	Lys	Ser	Ala	Ala	Ser	Gly	Ser	Val	Met	Lys	Ile	Ala
	770					775					780				
Gln	Phe	Asn	Ser	Arg	Tyr	Gln	Tyr	Asp	Pro	Asp	Phe	Ala	Arg	Gly	Met
785					790				795						800
Tyr	Leu	Tyr	Glu	His	Arg	Arg	Cys	Phe	Asp	Asn	Ile	Ile	Gly	Tyr	Cys
				805					810					815	
Asn	Thr	Leu	Cys	Tyr	His	Gly	Lys	Leu	Gln	Pro	Lys	Arg	Gly	Glu	Glu
			820					825					830		
Lys	Glu	Thr	Ile	Phe	Pro	Ala	Met	Gly	Tyr	Leu	His	Ile	Asp	Gly	Lys
			835				840					845			
Gly	Met	Gln	Ala	Ser	Gly	Gly	Ser	Arg	Tyr	Asn	Ala	Phe	Glu	Ala	Glu
	850					855					860				
Thr	Ile	Ala	Ala	Trp	Leu	Ala	Ala	His	Lys	Gly	Glu	Ile	Glu	Arg	His
865					870				875						

Arg Gln Asp Leu Ser Thr Ser Gln Thr Gln Ile Ser Thr Leu His Gly
 1010 1015 1020
 Val Glu Gln His Asp Ala Phe Leu Asn Gln Thr Phe Asp Ala Ile Asn
 1025 1030 1035 1040
 Gln Ser Ile Thr Ile Val Ser Pro Trp Leu Thr Trp Gln Lys Leu Glu
 1045 1050 1055
 Gln Thr Gly Phe Leu Ala Ser Met Ser Gln Ala Arg Ala Arg Gly Ile
 1060 1065 1070
 Asp Ile Thr Val Val Thr Asp Lys Thr Phe Asn Thr Glu His Thr Asp
 1075 1080 1085
 Phe Glu Lys Arg Lys Glu Lys His Gln Leu Thr Cys Ser Pro Leu Ile
 1090 1095 1100
 Ser Thr Pro Arg Cys
 1105 1110

<210> 9304

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 9304

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95
 Tyr

<210> 9305

<211> 925

<212> PRT

<213> Enterobacter cloacae

<400> 9305

Gln Val Arg Leu Cys His Ala Cys Gly Lys Asp Cys Val Arg Leu Cys
 1 5 10 15
 Gly Cys Gly Gly Met Thr Met Leu Lys Asn Ile Thr Arg Gln Leu Gln
 20 25 30
 Ala Leu Leu Ser Arg His Leu Pro His Arg Leu Ile Ala Arg Asp Pro
 35 40 45
 Leu Pro Asn Ala Asn Thr Met Ala Gly Ala Ala Ile Pro Ala Ser Leu
 50 55 60
 Thr Glu Arg Cys Leu Asn Val Ala Ala Met Asp Glu Asn Glu Val Trp
 65 70 75 80
 Arg Ala Phe Gly Gly His Pro Glu Gly Leu Asn Ala Gln Glu Val Ser
 85 90 95
 Lys Ile Arg Ala Glu His Gly Asp Asn Gln Ile Pro Ala Gln Lys Pro
 100 105 110
 Ser Pro Trp Trp Val His Leu Trp Leu Cys Tyr Arg Asn Pro Phe Asn
 115 120 125
 Leu Leu Leu Thr Val Leu Gly Ile Ile Ser Tyr Ala Thr Glu Asp Leu
 130 135 140
 Phe Ala Ala Gly Val Ile Ala Leu Met Val Gly Ile Ser Thr Leu Leu

145 150 155 160
 Asn Phe Ile Gln Glu Ala Arg Ser Thr Lys Ala Ala Asp Ala Leu Lys
 165 170 175
 Ala Met Val Ser Asn Thr Ala Thr Val Ser Arg Val Ile Asn Asp Leu
 180 185 190
 Gly Glu Asn Ala Trp Ile Glu Leu Pro Ile Asp Gln Leu Val Pro Gly
 195 200 205
 Asp Leu Val Lys Leu Ala Ala Gly Asp Met Ile Pro Ala Asp Leu Arg
 210 215 220
 Ile Ile Gln Ala Arg Asp Leu Phe Val Ala Gln Ala Ser Leu Thr Gly
 225 230 235 240
 Glu Ser Leu Pro Val Glu Lys Val Ala Arg Thr Arg Asp Pro Gln Gln
 245 250 255
 Met Asn Pro Leu Glu Cys Asp Thr Leu Cys Phe Met Gly Thr Thr Val
 260 265 270
 Val Ser Gly Thr Ala Gln Ala Ile Val Thr Ala Thr Gly Gly Asn Thr
 275 280 285
 Trp Phe Gly Gln Leu Ala Gly Arg Val Ser Glu Gln Glu Ser Glu Pro
 290 295 300
 Asn Ala Phe Gln Lys Gly Ile Gly Arg Val Ser Met Leu Leu Ile Arg
 305 310 315 320
 Phe Met Met Val Met Thr Pro Ile Val Leu Leu Ile Asn Gly Tyr Thr
 325 330 335
 Lys Gly Asp Trp Trp Glu Ala Ala Leu Phe Ala Leu Ser Val Ala Val
 340 345 350
 Gly Leu Thr Pro Glu Met Leu Pro Met Ile Val Thr Ser Thr Leu Ala
 355 360 365
 Arg Gly Ala Val Lys Leu Ser Lys Gln Lys Val Ile Val Lys His Leu
 370 375 380
 Asp Ala Ile Gln Asn Phe Gly Ala Met Asp Ile Leu Cys Thr Asp Lys
 385 390 395 400
 Thr Gly Thr Leu Thr Gln Asp Lys Ile Val Leu Glu Asn His Thr Asp
 405 410 415
 Ile Ala Gly Lys Thr Ser Glu Arg Val Leu Tyr Ser Ala Trp Leu Asn
 420 425 430
 Ser His Tyr Gln Thr Gly Leu Lys Asn Leu Leu Asp Val Ala Val Leu
 435 440 445
 Glu Gly Val Asp Glu Glu Ser Ala Arg Met Leu Ser Gly Arg Trp Gln
 450 455 460
 Lys Val Asp Glu Ile Pro Phe Asp Phe Glu Arg Arg Arg Met Ser Val
 465 470 475 480
 Val Val Ser Glu Gln Pro Asp Val His Gln Leu Ile Cys Lys Gly Ala
 485 490 495
 Leu Gln Glu Ile Leu Asn Val Ser Thr Gln Val Arg His Asn Gly Glu
 500 505 510
 Ile Val Leu Leu Asp Glu Thr Met Leu Arg Arg Ile Lys Arg Val Thr
 515 520 525
 Asp Asn Leu Asn Arg Gln Gly Leu Arg Val Val Ala Val Ala Ser Lys
 530 535 540
 Phe Leu Pro Ala Arg Glu Gly Asp Tyr Gln Arg Ile Asp Glu Ser Asp
 545 550 555 560
 Leu Ile Leu Glu Gly Tyr Ile Ala Phe Leu Asp Pro Pro Lys Glu Thr
 565 570 575
 Thr Ala Pro Ala Leu Lys Ala Leu Lys Ala Ser Gly Ile Thr Val Lys
 580 585 590
 Ile Leu Thr Gly Asp Ser Glu Leu Val Ala Ala Lys Val Cys His Glu
 595 600 605
 Val Gly Leu Asp Ala Gly Asp Val Val Val Gly Ser Asp Ile Glu Leu
 610 615 620
 Leu Ser Asp Asp Glu Leu Ala Asp Leu Ala Gln Arg Thr Thr Leu Phe
 625 630 635 640

Ala Arg Leu Thr Pro Met His Lys Glu Arg Ile Val Thr Leu Leu Arg
 645 650 655
 Arg Glu Gly His Val Val Gly Phe Met Gly Asp Gly Ile Asn Asp Ala
 660 665 670
 Pro Ala Leu Arg Ala Ala Asp Ile Gly Ile Ser Val Asp Gly Ala Val
 675 680 685
 Asp Ile Ala Arg Glu Glu Ala Ala Asp Ile Ile Leu Leu Glu Lys Ser Leu
 690 695 700
 Met Val Leu Glu Glu Gly Val Ile Glu Gly Arg Arg Thr Phe Ala Asn
 705 710 715 720
 Met Leu Lys Tyr Ile Lys Met Thr Ala Ser Ser Asn Phe Gly Asn Val
 725 730 735
 Phe Ser Val Leu Val Ala Ser Ala Phe Leu Pro Phe Leu Pro Met Leu
 740 745 750
 Pro Leu His Leu Leu Ile Gln Asn Leu Met Tyr Asp Val Ser Gln Val
 755 760 765
 Ala Ile Pro Phe Asp Asn Val Asp Asp Glu Gln Ile Gln Lys Pro Gln
 770 775 780
 Arg Trp Asn Pro Ala Asp Leu Gly Arg Phe Met Leu Phe Phe Gly Pro
 785 790 795 800
 Ile Ser Ser Ile Phe Asp Ile Leu Thr Phe Cys Leu Met Trp Phe Val
 805 810 815
 Phe His Ala Asn Thr Pro Glu His Gln Thr Leu Phe Gln Ser Gly Trp
 820 825 830
 Phe Val Val Gly Leu Leu Ser Gln Thr Leu Ile Val His Met Ile Arg
 835 840 845
 Thr Arg Arg Ile Pro Phe Ile Gln Ser Arg Ala Ala Trp Pro Leu Ile
 850 855 860
 Val Met Thr Gly Ile Val Met Ala Leu Gly Ile Ala Leu Pro Phe Ser
 865 870 875 880
 Pro Leu Ala Ser Tyr Leu Gln Leu Gln Ala Leu Pro Leu Ser Tyr Phe
 885 890 895
 Pro Trp Leu Val Ala Ile Leu Ala Gly Tyr Met Val Leu Thr Gln Met
 900 905 910
 Val Lys Gly Phe Tyr Ser Arg Arg Tyr Gly Trp Gln 915 920 925

<210> 9306

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 9306

Gly Ala Ala Glu Asn Pro Ala Ala Thr Ala Gln Ala Leu Leu Ser Trp
 1 5 10 15
 Thr Ile Thr Met Thr Ile Glu Lys Ile Phe Thr Pro Gln Asp Asp Ala
 20 25 30
 Phe Tyr Ala Val Ile Thr His Ala Ala Gly Pro Gln Gly Thr Leu Pro
 35 40 45
 Leu Thr Pro Gln Met Leu Met Glu Ser Pro Ser Gly Asn Leu Phe Gly
 50 55 60
 Met Thr Gln Asn Ala Gly Met Gly Trp Asp Ala Asn Lys Leu Thr Gly
 65 70 75 80
 Lys Glu Val Leu Ile Ile Gly Thr Gln Gly Gly Ile Arg Ala Gly Asp
 85 90 95
 Gly Arg Pro Val Ala Leu Gly Tyr His Thr Gly His Trp Glu Ile Gly
 100 105 110
 Met Gln Met Gln Ala Ala Ala Lys Glu Ile Thr Arg Asn Gly Gly Ile
 115 120 125
 Pro Phe Ala Ala Phe Val Ser Asp Pro Cys Asp Gly Arg Ser Gln Gly
 130 135 140

Thr His Gly Met Phe Asp Ser Leu Pro Tyr Arg Asn Asp Ala Ala Ile
 145 150 155 160
 Val Phe Arg Arg Leu Ile Arg Ser Leu Pro Thr Arg Arg Ala Val Ile
 165 170 175
 Gly Val Ala Thr Cys Asp Lys Gly Leu Pro Ala Thr Met Ile Ala Leu
 180 185 190
 Ala Ser Met His Asp Leu Pro Thr Ile Leu Val Pro Gly Gly Ala Thr
 195 200 205
 Leu Pro Pro Thr Val Gly Glu Asp Ala Gly Lys Val Gln Thr Ile Gly
 210 215 220
 Ala Arg Phe Ala Asn His Glu Leu Ser Leu Gln Glu Ala Ala Glu Leu
 225 230 235 240
 Gly Cys Arg Ala Cys Ala Ser Pro Gly Gly Cys Gln Phe Leu Gly
 245 250 255
 Thr Ala Gly Thr Ser Gln Val Val Ala Glu Ala Leu Gly Leu Ala Leu
 260 265 270
 Pro His Ser Ala Leu Ala Pro Ser Gly Gln Ala Val Trp Leu Glu Ile
 275 280 285
 Ala Arg Gln Ser Ala Arg Ala Val Ser Glu Leu Asp Asn Arg Gly Ile
 290 295 300
 Thr Thr Arg Asp Ile Leu Thr Asp Lys Ala Ile Glu Asn Ala Met Val
 305 310 315 320
 Ile His Ala Ala Phe Gly Gly Ser Thr Asn Leu Leu His Ile Pro
 325 330 335
 Ala Ile Ala His Ala Ala Gly Cys Thr Ile Pro Asp Val Glu His Trp
 340 345 350
 Thr Arg Val Asn Arg Arg Val Pro Arg Leu Val Ser Val Leu Pro Asn
 355 360 365
 Gly Pro Asp Tyr His Pro Thr Val Arg Ala Phe Leu Ala Gly Gly Val
 370 375 380
 Pro Glu Val Met Leu His Leu Arg Asp Leu Gly Leu Leu His Leu Asp
 385 390 395 400
 Ala Met Thr Val Thr Gly Gln Thr Val Gly Glu Asn Leu Asp Trp Trp
 405 410 415
 Gln Ala Ser Glu Arg Arg Lys Arg Phe Arg Gln Cys Leu Arg Glu Gln
 420 425 430
 Asp Gly Val Asp Pro Asp Asp Val Ile Leu Pro Pro Glu Lys Ala Lys
 435 440 445
 Ala Lys Gly Leu Thr Ser Thr Val Cys Phe Pro Thr Gly Asn Ile Ala
 450 455 460
 Pro Glu Gly Ser Val Ile Lys Ala Thr Ala Ile Asp Pro Ser Val Val
 465 470 475 480
 Gly Glu Asp Gly Val Tyr Arg His Thr Gly Arg Ala Arg Val Phe Val
 485 490 495
 Ser Glu Ala Gln Ala Ile Lys Ala Ile Lys Arg Glu Glu Ile Lys Gln
 500 505 510
 Gly Asp Ile Met Val Val Ile Gly Gly Gly Pro Ser Gly Thr Gly Met
 515 520 525
 Glu Glu Thr Tyr Gln Leu Thr Ser Ala Leu Lys His Ile Ser Trp Gly
 530 535 540
 Lys Thr Val Ser Leu Ile Thr Asp Ala Arg Phe Ser Gly Val Ser Thr
 545 550 555 560
 Gly Ala Cys Phe Gly His Val Ser Pro Glu Ala Leu Ala Gly Gly Pro
 565 570 575
 Ile Gly Lys Leu Arg Asp Asn Asp Ile Ile Glu Ile Ala Val Asp Arg
 580 585 590
 Leu Thr Leu Thr Gly Ser Val Asn Phe Ile Gly Thr Ala Asp Asn Pro
 595 600 605
 Leu Thr Pro Glu Glu Gly Ala Arg Glu Leu Ala Met Arg Gln Thr His
 610 615 620
 Pro Asp Leu His Ala His Asp Phe Leu Pro Asp Asp Thr Arg Leu Trp

625 630 635 640
 Ala Ala Leu Gln Ser Val Ser Gly Gly Thr Trp Lys Gly Cys Ile Tyr
 645 650 655
 Asp Thr Asp Lys Ile Ile Glu Val Ile Asn Ala Gly Lys Lys Ala Leu
 660 665 670
 Gly Ile

675

<210> 9307

<211> 575

<212> PRT

<213> Enterobacter cloacae

<400> 9307

Ala His Arg Cys Pro Arg Gly Gly His Gln Pro Ala Ala Asp Gln Ala
 1 5 10 15
 Pro Arg Gly Ala Gly Arg Gly Arg Ser Arg Arg Cys Asp Ser Arg Ile
 20 25 30
 Pro Leu Thr Gly Gly Thr Met Glu Ile Thr Asn Pro Ile Leu Thr Gly
 35 40 45
 Phe Asn Pro Asp Pro Ser Leu Cys Arg Gln Gly Glu Asp Tyr Tyr Ile
 50 55 60
 Ala Thr Ser Thr Phe Glu Trp Phe Pro Gly Val Arg Ile Tyr His Ser
 65 70 75 80
 Arg Asp Leu Lys Asn Trp Ser Leu Val Ser Thr Pro Leu Asp Arg Val
 85 90 95
 Ser Met Leu Asp Met Lys Gly Asn Pro Asp Ser Gly Gly Ile Trp Ala
 100 105 110
 Pro Cys Leu Ser Tyr Ala Asp Gly Lys Phe Trp Leu Leu Tyr Thr Asp
 115 120 125
 Val Lys Ile Val Asp Ser Pro Trp Lys Asn Gly Arg Asn Phe Leu Val
 130 135 140
 Thr Ala Pro Ser Ile Glu Gly Pro Trp Ser Glu Pro Ile Pro Met Gly
 145 150 155 160
 Asn Gly Gly Phe Asp Pro Ser Leu Phe His Asp Asp Asp Gly Arg Lys
 165 170 175
 Tyr Tyr Leu Tyr Arg Pro Trp Gly Pro Arg His His Ser Asn Pro His
 180 185 190
 Asn Thr Ile Val Met Gln Ala Phe Asp Pro Gln Thr Gly Thr Leu Ser
 195 200 205
 Pro Glu Arg Lys Thr Leu Phe Thr Gly Thr Pro Leu Cys Tyr Thr Glu
 210 215 220
 Gly Ala His Leu Tyr Arg His Ala Gly Trp Tyr Tyr Leu Met Val Ala
 225 230 235 240
 Glu Gly Gly Thr Ser Tyr Glu His Ala Val Val Leu Arg Ser Lys
 245 250 255
 Thr Ile Asp Gly Pro Tyr Glu Leu His Pro Asp Val Thr Met Met Thr
 260 265 270
 Ser Trp His Leu Pro Glu Asn Pro Leu Gln Lys Ser Gly His Gly Ser
 275 280 285
 Leu Leu Gln Thr His Thr Gly Glu Trp Tyr Met Ala Tyr Leu Thr Ser
 290 295 300
 Arg Pro Leu Arg Leu Pro Gly Val Pro Leu Leu Ala Ser Gly Gly Arg
 305 310 315 320
 Gly Tyr Cys Pro Leu Gly Arg Glu Thr Gly Ile Ala Arg Ile Glu Trp
 325 330 335
 Arg Asp Gly Trp Pro Tyr Val Glu Gly Gly Lys His Ala Gln Leu Thr
 340 345 350
 Val Lys Gly Pro Gln Met Ala Glu Gln Pro Val Ser Ile Gln Gly Asn
 355 360 365
 Trp Arg Glu Asp Phe Asp Gly Ser Thr Leu Asp Pro Glu Leu Gln Thr

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370          375          380
Leu Arg Ile Pro Phe Asp Thr Leu Gly Ser Leu Thr Ala Arg Pro
385          390          395
Gly Tyr Leu Arg Leu Tyr Gly Asn Asp Ser Leu Asn Ser Thr Phe Thr
405          410          415
Gln Ser Thr Val Ala Arg Arg Trp Gln His Phe Ala Phe Arg Ala Gln
420          425          430
Thr Arg Met Gln Phe Ser Pro Val His Phe Gln Gln Ser Ala Gly Leu
435          440          445
Thr Cys Tyr Tyr Asn Ser Lys Asn Trp Ser Tyr Cys Phe Val Asp Tyr
450          455          460
Glu Glu Gly Gln Gly Arg Thr Ile Lys Val Ile Gln Leu Asp His Asn
465          470          475
Val Pro Ser Trp Pro Leu His Glu Gln Pro Ile Pro Val Pro Glu His
485          490          495
Ala Glu Ser Val Trp Leu Arg Val Asp Val Asp Arg Leu Val Tyr Arg
500          505          510
Tyr Ser Tyr Ser Phe Asp Gly Glu Thr Trp His Ala Val Pro Val Thr
515          520          525
Tyr Glu Ala Trp Lys Leu Ser Asp Asp Tyr Ile Gly Gly Arg Gly Phe
530          535          540
Phe Thr Gly Ala Phe Val Gly Leu His Cys Glu Asp Ile Ser Gly Asp
545          550          555
Gly Cys His Ala Asp Phe Asp Tyr Phe Thr Tyr Glu Pro Ala
565          570          575

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<210> 9308

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 9308

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Thr Trp Pro Arg Ser Leu Arg Trp Asn Thr Thr Ala Gly Glu Pro Thr
1          5          10          15
Ser Lys Ile Arg Thr Val Lys Thr Ala Lys Arg Ala Thr Thr Lys Ile
20          25          30
Thr Ser Thr Lys Thr Thr Thr Ala Cys Val Thr Lys Arg Phe Arg Arg
35          40          45
Trp Arg Ala Pro Pro Leu Phe Gln Gly Arg Thr Met Asp Tyr Pro Gln
50          55          60
Ile Leu Ala Pro Val Leu Asn Phe Leu Gln Cys Pro Thr Pro Gln Ala
65          70          75          80
Trp Ile Asp Lys Ala Arg Asp Pro Ala Asn Leu Pro Leu Leu Leu Thr
85          90          95
Asp His Met Val Cys Glu Leu Lys Ala Ala Gln Thr Ala Leu Leu Leu
100          105          110
Val Arg Lys Tyr Val Ala Asp Glu Ser Gly Ala Asp Ala Leu Leu Glu
115          120          125
Trp Leu Lys Pro Tyr Glu Gln Phe Thr Phe Arg Asp Gly Pro Glu Pro
130          135          140
Asp Phe Ile Ala Leu His Arg Gln Ile Gly Lys Ser Val Met Pro Lys
145          150          155          160
Thr Asp Asp Pro Trp Gly Gln Ala Leu Ile Asp Ser Met Val Leu Leu
165          170          175
Ile Lys Glu Glu Leu His His Phe Trp Gln Val Arg Glu Ala Met Leu
180          185          190
Ala Arg Asp Ile Pro Tyr Val Lys Ile Thr Ala Ser Arg Tyr Ala Lys
195          200          205
Gly Met Leu Lys Asp Val Arg Thr His Glu Pro Leu Thr Leu Ile Asp
210          215          220
Lys Leu Ile Cys Gly Ala Tyr Ile Glu Ala Arg Ser Cys Glu Arg Phe

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225          230          235          240
Ala Ala Leu Ala Pro Phe Leu Asp Asp Asp Leu Gln Lys Phe Tyr Leu
          245          250          255
Ser Leu Leu Arg Ser Glu Ala Arg His Tyr Gln Asp Tyr Leu Thr Leu
          260          265          270
Ala Gln Gln Val Ser Asp Asp Asp Ile Ser Pro Arg Ile Gln Leu Phe
          275          280          285
Gly Glu Ile Glu Ala Thr Leu Ile Ser Thr Pro Asp Asn Glu Phe Arg
          290          295          300
Phe His Ser Gly Val Pro Val
305          310

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<210> 9309

<211> 163

<212> PRT

<213> *Enterobacter cloacae*

<400> 9309

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Gly Ile Ser Met Ser Ala Pro Ala His Leu Trp Leu Glu Asp Glu Asn
1          5          10          15
Gly Ser Pro Ile Val Gly Cys Cys Ala Met Pro Leu Arg Leu Gly Ser
          20          25          30
Ile Glu Leu Lys Ser Phe Ser His Gly Val Thr Ile Pro Val Asp Pro
          35          40          45
Ser Trp Gly Lys Leu Thr Gly Thr Arg Val His Arg Pro Ile Thr Ile
          50          55          60
Val Lys Glu Phe Asp Gln Thr Thr Pro Leu Leu Tyr Arg Ala Val Cys
65          70          75          80
Glu Gly Arg Thr Met Lys Lys Ala Thr Ile Lys Met Tyr Arg Ile Leu
          85          90          95
Glu Ser Gly Ile Glu Ala Glu Tyr Phe Lys Ile Ile Leu Glu Asn Val
          100          105          110
Lys Phe Thr Thr Val Ala Pro Tyr Leu Ser Pro Gly Ser Met Thr Ser
          115          120          125
Thr His Leu Glu Thr Leu Glu Leu Arg Tyr Glu Ala Ile Thr Trp Lys
          130          135          140
Tyr Thr Glu Gly Asn Ile Leu Tyr Arg Asp Ser Trp Asn Asp Arg Cys
145          150          155          160
Cys Ala

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<210> 9310

<211> 74

<212> PRT

<213> *Enterobacter cloacae*

<400> 9310

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Asn Asn Gln Leu Ser Leu Met Leu Ser Cys Glu Phe Ala Met Gly Lys
1          5          10          15
Val Trp Phe Thr Phe Gly Leu Phe Ala Gly Arg Tyr Asn Thr Ala Arg
          20          25          30
Leu Val Thr Asn Gly Met Asp Lys Ser Leu Tyr Cys Ala Pro Ile Pro
          35          40          45
Asn Phe Leu Leu Thr Gly Gly His Met Asp Pro Asp Pro Thr Pro Leu
          50          55          60
Leu Thr Arg Arg Lys Pro Ser Tyr Arg
65          70

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<210> 9311

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 9311

Gly Asp His Met Pro Gln Ser Ala Leu Phe Thr Gly Ile Ile Pro Pro
 1 5 10 15
 Val Ser Thr Ile Phe Thr Ala Asp Gly Gln Leu Asp Lys Gln Gly Thr
 20 25 30
 Ala Ala Leu Ile Asp Asp Leu Ile Lys Ala Gly Val Asp Gly Leu Phe
 35 40 45
 Phe Leu Gly Ser Gly Gly Glu Phe Ser Gln Leu Gly Ala Glu Glu Arg
 50 55 60
 Lys Thr Ile Ala Gln Phe Ala Ile Asp His Val Asp Cys Arg Val Pro
 65 70 75 80
 Val Leu Ile Gly Thr Gly Gly Thr Asn Ala Arg Glu Thr Ile Glu Leu
 85 90 95
 Ser Gln His Ala Gln Gln Ala Gly Ala Asp Gly Ile Val Val Ile Asn
 100 105 110
 Pro Tyr Tyr Trp Lys Val Ser Glu Ala Asn Leu Ile Arg Tyr Phe Glu
 115 120 125
 Gln Val Ala Asp Ser Val Thr Leu Pro Val Met Leu Tyr Asn Phe Pro
 130 135 140
 Ala Leu Thr Gly Gln Asp Leu Thr Pro Ala Leu Val Lys Thr Leu Ala
 145 150 155 160
 Asp Ser Arg Ser Asn Ile Val Gly Ile Lys Asp Thr Ile Asp Ser Val
 165 170 175
 Ala His Leu Arg Ser Met Ile His Thr Val Lys Ala Ala His Pro His
 180 185 190
 Phe Thr Val Leu Cys Gly Tyr Asp Asp His Leu Phe Asn Thr Leu Leu
 195 200 205
 Leu Gly Gly Asp Gly Ala Ile Ser Ala Ser Gly Asn Phe Ala Pro Gln
 210 215 220
 Val Ser Val Asn Leu Leu Lys Ala Trp Arg Asp Lys Asp Val Ala Lys
 225 230 235 240
 Ala Ala Glu Tyr His Gln Thr Leu Leu Gln Ile Pro Gln Met Tyr Gln
 245 250 255
 Leu Asp Thr Pro Phe Val Asn Val Ile Lys Glu Ala Ile Val Leu Cys
 260 265 270
 Gly Arg Pro Ile Ser Thr His Val Leu Pro Pro Ala Ser Ala Leu Asp
 275 280 285
 Glu Pro Arg Lys Ala Gln Leu Lys Thr Leu Leu Gln Gln Leu Lys Leu
 290 295 300
 Cys
 305

<210> 9312

<211> 471

<212> PRT

<213> Enterobacter cloacae

<400> 9312

Phe Ser Thr Leu His Lys Gly Val Ile Leu Met Thr Gln Leu Thr Met
 1 5 10 15
 Lys Asp Lys Ile Gly Tyr Gly Leu Gly Asp Thr Ala Cys Gly Phe Val
 20 25 30
 Trp Gln Ala Thr Met Phe Leu Leu Ala Tyr Phe Tyr Thr Asp Val Phe
 35 40 45
 Gly Leu Ser Ala Gly Ile Met Gly Thr Leu Phe Leu Val Ser Arg Val
 50 55 60
 Leu Asp Ala Val Thr Asp Pro Leu Met Gly Leu Leu Val Asp Arg Thr
 65 70 75 80
 Arg Thr Arg Tyr Gly Gln Phe Arg Pro Phe Leu Leu Trp Gly Ala Ile

85 90 95
 Pro Phe Gly Ile Val Cys Met Leu Thr Phe Tyr Thr Pro Asp Phe Ser
 100 105 110
 Ala Gln Gly Lys Ile Ile Tyr Ala Cys Ala Thr Tyr Ile Leu Leu Thr
 115 120 125
 Leu Val Tyr Thr Phe Val Asn Val Pro Tyr Cys Ala Met Pro Gly Val
 130 135 140
 Ile Thr Ala Asp Pro Lys Glu Arg His Ala Leu Gln Ser Trp Arg Phe
 145 150 155 160
 Phe Leu Ala Ala Ala Gly Ser Leu Ala Ile Ser Gly Ile Ala Leu Pro
 165 170 175
 Leu Val Ser Ile Ile Gly Lys Gly Asp Glu Gln Val Gly Tyr Phe Gly
 180 185 190
 Ala Met Cys Val Leu Gly Met Thr Gly Val Val Leu Leu Tyr Val Cys
 195 200 205
 Phe Phe Thr Thr Lys Glu Arg Tyr Thr Phe Glu Val Gln Pro Gly Ser
 210 215 220
 Ser Val Ala Lys Asp Leu Lys Leu Leu Leu Gly Asn Gly Gln Trp Arg
 225 230 235 240
 Ile Met Cys Ala Phe Lys Met Met Ala Thr Cys Ser Asn Val Val Arg
 245 250 255
 Gly Gly Ala Thr Leu Tyr Phe Val Lys Tyr Val Met Asp His Pro Glu
 260 265 270
 Met Ala Thr Gln Phe Leu Leu Tyr Gly Ser Leu Ala Thr Met Phe Gly
 275 280 285
 Ser Leu Cys Ser Ser Arg Leu Leu Gly Arg Phe Asp Arg Val Thr Ala
 290 295 300
 Phe Lys Trp Ile Ile Val Ala Tyr Ser Leu Ile Ser Leu Leu Ile Phe
 305 310 315 320
 Phe Thr Pro Ala Glu His Ile Ala Leu Ile Phe Ala Leu Asn Ile Leu
 325 330 335
 Phe Leu Phe Val Phe Asn Thr Thr Thr Pro Leu Gln Trp Leu Met Ala
 340 345 350
 Ser Asp Val Val Asp Tyr Glu Glu Ser Arg Ser Gly Arg Arg Leu Asp
 355 360 365
 Gly Leu Val Phe Ser Thr Tyr Leu Phe Ser Leu Lys Ile Gly Leu Ala
 370 375 380
 Ile Gly Gly Ala Val Val Gly Trp Ile Leu Ala Tyr Val Asn Tyr Ser
 385 390 395 400
 Ala Ser Ser Ser Val Gln Pro Val Glu Val Leu Thr Thr Ile Lys Ile
 405 410 415
 Leu Phe Cys Val Val Pro Val Val Leu Tyr Ala Gly Met Phe Ile Met
 420 425 430
 Leu Ser Phe Tyr Lys Leu Thr Asp Ala Arg Val Glu Ala Ile Ser Gln
 435 440 445
 Gln Leu Ile Lys His Arg Ala Ala Gln Gly Glu Ala Val Pro Asp Ala
 450 455 460
 Ala Thr Ala Ala Ser His
 465 470

<210> 9313

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 9313

Arg Gly Ala Ser Gly Gly Ser Trp Ala Lys Val Leu Thr Thr Asp Gln
 1 5 10 15
 Lys Arg Glu Ala Val Met Leu Met Cys Asp Ala Thr Gly Leu Ser Gln
 20 25 30
 Arg Arg Ala Cys Arg Leu Thr Gly Leu Ser Leu Ser Thr Cys Arg Tyr

35 40 45
 Glu Ala His Arg Pro Ala Ala Asp Ala His Leu Ser Trp Arg
 50 55 60

<210> 9314
 <211> 496
 <212> PRT
 <213> Enterobacter cloacae

<400> 9314
 Val Trp Lys Glu Asn Met Ser Ile Ser Ser Val Ile Lys Ser Leu Gln
 1 5 10 15
 Asp Ile Met Arg Lys Asp Ala Gly Val Asp Gly Asp Ala Gln Arg Leu
 20 25 30
 Gly Gln Leu Ser Trp Leu Leu Phe Leu Lys Ile Phe Asp Thr Gln Glu
 35 40 45
 Glu Glu Leu Glu Leu Glu Gln Asp Asp Tyr Gln Phe Pro Ile Pro Gln
 50 55 60
 Arg Tyr Leu Trp Arg Ser Trp Ala Ala Asn Ser Glu Gly Ile Thr Gly
 65 70 75 80
 Asp Ala Leu Leu Glu Phe Val Asn Asp Asp Leu Phe Pro Thr Leu Lys
 85 90 95
 Asn Leu Thr Ala Gln Ile Asp Lys Asn Pro Arg Gly Phe Val Val Lys
 100 105 110
 Gln Ala Phe Ser Asp Ala Tyr Asn Tyr Met Lys Asn Gly Thr Leu Leu
 115 120 125
 Arg Gln Val Ile Asn Lys Leu Asn Glu Ile Asp Phe Ser Ser Ser Gln
 130 135 140
 Glu Arg His Leu Phe Gly Asp Ile Tyr Glu Gln Ile Leu Arg Asp Leu
 145 150 155 160
 Gln Ser Ala Gly Asn Ala Gly Glu Phe Tyr Thr Pro Arg Ala Val Thr
 165 170 175
 Arg Phe Met Val Asn Arg Ile Asp Pro Lys Leu Gly Glu Ser Ile Met
 180 185 190
 Asp Pro Ala Cys Gly Thr Gly Gly Phe Leu Ala Cys Ala Phe Asp His
 195 200 205
 Val Lys Glu His Tyr Val Lys Thr Thr Glu Asp His Lys Thr Leu Gln
 210 215 220
 Lys Gln Ile His Gly Val Glu Lys Lys Gln Leu Pro His Leu Leu Cys
 225 230 235 240
 Thr Thr Asn Met Leu Leu His Gly Ile Glu Val Pro Val Gln Ile Arg
 245 250 255
 His Asp Asn Thr Leu Asn Lys Pro Leu Ser Ser Trp Asp Glu Gln Val
 260 265 270
 Asp Val Ile Val Thr Asn Pro Pro Phe Gly Gly Thr Glu Glu Asp Gly
 275 280 285
 Ile Glu Lys Asn Phe Pro Ala Glu Met Gln Thr Arg Glu Thr Ala Asp
 290 295 300
 Leu Phe Leu Gln Leu Ile Ile Glu Val Leu Ala Asp Lys Gly Arg Ala
 305 310 315 320
 Ala Val Val Leu Pro Asp Gly Thr Leu Phe Gly Glu Gly Val Lys Thr
 325 330 335
 Lys Ile Lys Lys Leu Leu Thr Glu Glu Cys Asn Leu His Thr Ile Val
 340 345 350
 Arg Leu Pro Asn Gly Val Phe Asn Pro Tyr Thr Gly Ile Lys Thr Asn
 355 360 365
 Ile Leu Phe Phe Thr Lys Gly Gln Pro Thr Lys Asp Val Trp Phe Tyr
 370 375 380
 Glu His Pro Tyr Pro Asp Gly Val Lys Asn Tyr Ser Lys Thr Lys Pro
 385 390 395 400
 Met Lys Phe Glu Glu Phe Gln Ala Glu Ile Asp Trp Trp Gly Asn Glu

05										410										415									
Ala	Asp	Gly	Phe	Ala	Ser	Arg	Glu	Glu	Asn	Asn	Gln	Ala	Trp	Lys	Val														
420										425										430									
Gly	Ile	Gly	Asp	Ile	Ile	Ala	Arg	Asn	Phe	Asn	Leu	Asp	Ile	Lys	Asn														
435										440										445									
Pro	Tyr	Gln	Gly	Glu	Thr	Ile	Ser	His	Asp	Pro	Asp	Glu	Leu	Leu	Ala														
450										455										460									
Lys	Tyr	Gln	Lys	Gln	Gln	Thr	Asp	Ile	Ser	Glu	Leu	Arg	Asn	Gln	Leu														
465										470										475									
Arg	Asp	Ile	Leu	Gly	Ala	Ala	Leu	Ala	Gly	Asn	Lys	Gly	Ala	Asn															
485										490										495									

<210> 9315

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 9315

Ala	Ala	His	Trp	Asn	Ala	Thr	Glu	Phe	Lys	Gly	Ala	Ile	Met	Glu	Arg
1	Lys	Pro	Thr	Leu	Val	Val	Ala	Leu	Gly	Gly	Asn	Ala	Leu	Leu	Lys
			20					25					30		
Gly	Glu	Pro	Leu	Glu	Ala	Asp	Ile	Gln	Arg	Gln	Asn	Ile	Glu	Gln	Ala
		35					40					45			
Ala	Arg	Thr	Ile	Ala	Gly	Leu	Thr	Glu	Gln	Trp	Arg	Val	Val	Leu	Val
	50					55					60				
His	Gly	Asn	Gly	Pro	Gln	Val	Gly	Leu	Leu	Ala	Leu	Gln	Asn	Ser	Ala
65					70					75					80
Tyr	Asp	Lys	Val	Thr	Pro	Tyr	Pro	Leu	Asp	Val	Leu	Gly	Ala	Glu	Ser
				85					90					95	
Gln	Gly	Met	Ile	Gly	Tyr	Met	Leu	Gln	Gln	Ala	Leu	Lys	Asn	Asn	Leu
			100					105					110		
Pro	Gln	Arg	Glu	Val	Ser	Val	Leu	Leu	Thr	Gln	Val	Glu	Val	Asp	Ala
		115					120					125			
Ala	Asp	Pro	Ala	Phe	Ser	Asn	Pro	Thr	Lys	Tyr	Ile	Gly	Pro	Val	Tyr
	130					135					140				
Ser	Glu	Ala	Gln	Ala	Lys	Thr	Leu	Ala	Ala	Glu	Lys	Gly	Trp	Val	Phe
145					150					155					160
Lys	Ala	Asp	Gly	Ser	Tyr	Phe	Arg	Arg	Val	Val	Pro	Ser	Pro	Gln	Pro
				165					170					175	
Lys	Arg	Ile	Val	Glu	Ser	Asp	Ala	Ile	Thr	Ala	Leu	Ile	Gln	Arg	Asp
		180						185					190		
His	Leu	Val	Ile	Cys	Asn	Gly	Gly	Gly	Gly	Val	Pro	Val	Val	Glu	Asn
		195					200					205			
Ala	Asn	Gly	Tyr	Arg	Gly	Ile	Glu	Ala	Val	Ile	Asp	Lys	Asp	Leu	Ser
	210					215					220				
Ala	Ala	Leu	Leu	Ala	Arg	Gln	Ile	Glu	Ala	Asp	Ala	Leu	Leu	Ile	Leu
225					230					235					240
Thr	Asp	Ala	Asp	Ala	Val	Tyr	Leu	Asp	Trp	Gly	Lys	Pro	Thr	Gln	Arg
				245					250					255	
Pro	Leu	Ala	Gln	Val	Thr	Pro	Glu	Leu	Leu	Arg	Gly	Met	Gln	Phe	Asp
		260					265						270		
Ala	Gly	Ser	Met	Gly	Pro	Lys	Val	Ala	Ala	Cys	Arg	Glu	Phe	Val	Glu
		275					280					285			
Ala	Cys	Gly	Gly	Ile	Ala	Gly	Ile	Gly	Ala	Leu	Asn	Asp	Gly	Ala	Glu
	290					295					300				
Ile	Leu	Ala	Gly	Glu	Lys	Gly	Thr	Leu	Ile	Arg	Asn				
305					310					315					

<210> 9316

<211> 517

<212> PRT

<213> *Enterobacter cloacae*

<400> 9316

Arg	Lys	Arg	Ser	Ser	Asn	His	Arg	Thr	Pro	Ser	Ser	Ser	Thr	Lys	Gln
1				5					10					15	
Arg	Thr	Ala	Cys	Thr	Pro	Leu	Lys	Arg	Ser	Trp	Trp	Arg	His	Ser	Ala
		20						25					30		
Thr	Asn	His	Arg	Pro	Ala	Arg	Arg	Gly	Val	Arg	Arg	Val	Gln	Glu	Asn
		35					40					45			
Ile	Met	Gly	Lys	Phe	Lys	Phe	Pro	Ser	Ala	Tyr	Thr	Ile	Leu	Phe	Phe
50						55					60				
Leu	Ile	Ala	Val	Val	Ala	Val	Leu	Thr	Trp	Ile	Val	Pro	Ala	Gly	Gln
65					70					75					80
Tyr	His	Met	Ala	Met	Asn	Glu	Ala	Leu	Gly	Lys	Glu	Val	Pro	Val	Ala
				85					90					95	
Gly	Thr	Tyr	Ala	Gln	Val	Ala	Ser	His	Pro	Gln	Gly	Leu	Val	Ser	Val
			100					105					110		
Leu	Met	Ala	Pro	Ile	Ala	Gly	Leu	Tyr	Asp	Pro	Glu	Ser	Gly	Gln	Ala
		115					120					125			
Gly	Ala	Ile	Asp	Val	Ala	Leu	Phe	Ile	Leu	Ile	Ile	Gly	Gly	Phe	Leu
		130				135					140				
Gly	Ile	Val	Thr	Lys	Thr	Gly	Ala	Ile	Asp	Ala	Gly	Ile	Glu	Arg	Val
145					150					155				160	
Thr	Thr	Arg	Leu	Arg	Gly	Arg	Glu	Glu	Trp	Met	Ile	Pro	Ile	Leu	Met
			165						170					175	
Ala	Leu	Phe	Ala	Ala	Gly	Gly	Thr	Ile	Tyr	Gly	Met	Ala	Glu	Glu	Ser
			180						185				190		
Leu	Pro	Phe	Tyr	Thr	Leu	Leu	Val	Pro	Val	Met	Leu	Ala	Ala	Arg	Phe
		195				200						205			
Asp	Pro	Val	Val	Ala	Ala	Ser	Thr	Val	Leu	Leu	Gly	Ala	Gly	Ile	Gly
210						215					220				
Thr	Leu	Gly	Ser	Thr	Ile	Asn	Pro	Phe	Ala	Thr	Val	Ile	Ala	Ala	Asn
225					230					235					240
Ala	Ala	Gly	Ile	Pro	Phe	Thr	Asn	Gly	Ile	Ala	Leu	Arg	Leu	Ala	Leu
				245					250					255	
Leu	Val	Ile	Gly	Trp	Ile	Ile	Cys	Val	Ala	Trp	Val	Met	Arg	Tyr	Ala
			260					265					270		
Arg	Lys	Val	Arg	Lys	Asp	Pro	Ser	Leu	Ser	Ile	Val	Ala	Asp	Lys	Gln
		275					280						285		
Glu	Glu	Asn	Leu	Ala	His	Phe	Leu	Gly	Asn	Lys	Gly	Glu	Gln	Ser	Leu
290						295					300				
Glu	Phe	Thr	Pro	Val	Arg	Lys	Leu	Ile	Leu	Val	Ile	Phe	Ala	Leu	Ala
305					310					315				320	
Phe	Ala	Val	Met	Ile	Tyr	Gly	Val	Ala	Val	Leu	Gly	Trp	Trp	Met	Ala
			325						330					335	
Glu	Ile	Ser	Ala	Val	Phe	Leu	Ala	Ser	Ala	Ile	Ile	Val	Gly	Leu	Ile
			340					345					350		
Ala	Arg	Met	Ser	Glu	Glu	Glu	Leu	Thr	Ser	Thr	Phe	Ile	Asn	Gly	Ala
		355				360						365			
Arg	Asp	Leu	Leu	Gly	Val	Ala	Leu	Ile	Ile	Gly	Ile	Ala	Arg	Gly	Ile
370					375					380					
Val	Val	Ile	Met	Asp	Lys	Gly	Met	Ile	Thr	His	Thr	Ile	Leu	His	Ser
385					390					395				400	
Ala	Glu	Gly	Met	Val	Thr	Gly	Leu	Ser	Thr	Val	Ala	Phe	Ile	Asn	Val
			405						410					415	
Met	Tyr	Trp	Leu	Glu	Val	Val	Leu	Ser	Phe	Leu	Val	Pro	Ser	Ser	Ser
			420					425					430		
Gly	Leu	Ala	Val	Leu	Thr	Met	Pro	Ile	Met	Ala	Pro	Leu	Ala	Asp	Phe
		435					440					445			
Ala	Asn	Val	Asn	Arg	Asp	Leu	Val	Val	Thr	Ala	Tyr	Gln	Ser	Ala	Ser

450 455 460
 Gly Ile Val Asn Leu Ile Thr Pro Thr Ser Ala Val Val Met Gly Gly
 465 470 475 480
 Leu Ala Ile Ala Arg Val Pro Tyr Val Arg Tyr Leu Lys Trp Val Ala
 485 490 495
 Pro Leu Leu Gly Ile Leu Thr Val Val Ile Met Val Ala Leu Ser Leu
 500 505 510
 Gly Ala Leu Leu
 515

<210> 9317
 <211> 100
 <212> PRT
 <213> Enterobacter cloacae

<400> 9317
 Trp Leu Phe Ser His Ala Leu Tyr Ser Thr Arg Ser Leu Val Phe Pro
 1 5 10 15
 Ala Ile Ser Val Trp Phe Ser Ser Thr Ile Leu Ser Trp Val Arg Val
 20 25 30
 Pro Val Leu Ser Val Gln Arg Met Ser Ile Ala Pro Lys Phe Trp Met
 35 40 45
 Ala Ser Arg Cys Leu Thr Ile Thr Phe Cys Leu Glu Ser Leu Thr Ala
 50 55 60
 Pro Arg Ala Ser Val Glu Val Thr Ile Ile Gly Ser Ile Ser Gly Val
 65 70 75 80
 Lys Pro Thr Ala Thr Glu Ser Ala Asn Ser Ala Ser His Gln Ser
 85 90 95
 Pro Leu Val
 100

<210> 9318
 <211> 822
 <212> PRT
 <213> Enterobacter cloacae

<400> 9318
 Ser Tyr Phe Val Glu Ser Ser Ala Met Val Gly Glu Asn Lys Thr His
 1 5 10 15
 Leu Thr Glu Thr Asp Ile Ile Thr Lys Tyr Ile Leu Pro Ala Val Lys
 20 25 30
 Thr Ala Gly Trp Asp Val Met Ser Gln Val Arg Gln Glu Val Lys Leu
 35 40 45
 Arg Asp Gly Lys Ile Val Val Arg Gly Lys Leu Ala Ser Arg Ile Lys
 50 55 60
 Val Lys Ser Ala Asp Ile Val Leu Tyr His Lys Pro Asn Leu Pro Leu
 65 70 75 80
 Ala Val Ile Glu Ala Lys Ala Asn Lys His Ala Ile Ser Lys Gly Met
 85 90 95
 Gln Gln Gly Leu Asp Tyr Ala Ser Leu Leu Asp Val Pro Phe Val Phe
 100 105 110
 Ala Ser Asn Gly Asp Gly Phe Ile Phe His Asp Lys Thr Asn Pro Gln
 115 120 125
 Gln Leu Glu Ser Glu Ile Ala Leu Ser Asp Phe Pro Thr Pro Glu Gln
 130 135 140
 Leu Trp Gln Lys Tyr Cys Ala Trp Lys Gly Phe Thr Gln Glu Gln Leu
 145 150 155 160
 Pro Val Ile Ser Gln Asp Tyr Tyr Asp Asp Gly Ser Gly Lys Ser Pro
 165 170 175
 Arg Tyr Tyr Gln Met Gln Ala Ile Asn Arg Thr Val Asp Ala Val Ser
 180 185 190

Ala Gly Lys Asn Arg Ile Leu Leu Val Met Ala Thr Gly Thr Gly Lys
 195 200 205
 Thr Tyr Thr Ala Phe Gln Ile Ile Trp Arg Leu Trp Lys Ala Lys Asn
 210 215 220
 Lys Lys Arg Ile Leu Phe Leu Ala Asp Arg Asn Ile Leu Val Asp Gln
 225 230 235 240
 Thr Lys Asn Asn Asp Phe Gln Pro Phe Gly Thr Ala Met Thr Lys Val
 245 250 255
 Thr Gly Arg Thr Ile Asp Pro Ala Tyr Glu Val His Leu Ala Leu Tyr
 260 265 270
 Gln Ala Ile Thr Gly Pro Glu Glu His Gln Lys Ala Tyr Lys Gln Val
 275 280 285
 Asp Pro Asn Phe Phe Asp Leu Ile Val Ile Asp Glu Cys His Arg Gly
 290 295 300
 Ser Ala Ser Glu Asp Ser Ala Trp Arg Glu Ile Leu Glu Tyr Phe Gly
 305 310 315 320
 Ser Ala Thr Gln Val Gly Leu Thr Ala Thr Pro Lys Glu Thr Glu Asp
 325 330 335
 Val Ser Asn Ile Asp Tyr Phe Gly Glu Pro Val Tyr Thr Tyr Ser Leu
 340 345 350
 Lys Glu Gly Ile Glu Asp Gly Phe Leu Ala Pro Tyr Lys Val Val Arg
 355 360 365
 Val Asp Ile Asp Val Asp Val Gln Gly Trp Arg Pro Val Lys Gly Gln
 370 375 380
 Leu Asp Lys Tyr Gly Glu Glu Ile Glu Asp Arg Ile Tyr Asn Leu Lys
 385 390 395 400
 Asp Phe Asp Arg Lys Leu Val Ile Asp Glu Arg Thr Met Leu Val Ala
 405 410 415
 Gln Thr Ile Thr Asp Tyr Leu Lys Arg Thr Asn Pro Met Asp Lys Thr
 420 425 430
 Ile Val Phe Cys Asn Asp Ile Asp His Ala Asp Arg Met Arg His Ala
 435 440 445
 Leu Val Val Leu Asn Pro Glu Gln Val Leu Lys Asn Glu Lys Tyr Val
 450 455 460
 Met Lys Ile Thr Gly Asp Asp Ile Gly Lys Ala Gln Leu Asp Asn
 465 470 475 480
 Phe Ile Asn Pro Lys Lys Ala Tyr Pro Val Ile Ala Thr Thr Ser Glu
 485 490 495
 Leu Met Thr Thr Gly Val Asp Ala Gln Thr Cys Lys Leu Val Val Leu
 500 505 510
 Asp Gln Asn Ile Gln Ser Met Thr Lys Phe Lys Gln Ile Ile Gly Arg
 515 520 525
 Gly Thr Arg Ile Asn Glu Arg His Gly Lys Leu Trp Phe Thr Ile Leu
 530 535 540
 Asp Phe Lys Lys Ala Thr Glu Leu Phe Ala Asp Pro Arg Phe Asp Gly
 545 550 555 560
 Leu Pro Glu Lys Val Leu Val Val Lys Pro Gly Asp Ile Ser Asp Glu
 565 570 575
 Ser Ser Asp Phe Asn Glu Arg Leu Asp Glu Glu Thr Thr Asn Asp Asp
 580 585 590
 Gly Asp Asn Pro His Asn Glu Met Arg Glu Asp Ala Ala Glu Tyr His
 595 600 605
 Val Asn Arg Asp Asn His Ser Gly Asn Gly Glu Phe His Ser Asp Asp
 610 615 620
 Ala Asp Lys Val Arg Lys Phe Tyr Val Asn Gly Val Ala Val Lys Val
 625 630 635 640
 Leu Ala Lys Arg Val Gln Tyr Tyr Asp Ser Asp Gly Lys Leu Val Thr
 645 650 655
 Glu Ser Phe Gln Asp Tyr Thr Arg Lys Thr Met Leu Lys Asp Ser Glu
 660 665 670
 Tyr Ala Ser Leu Asp Ser Phe Val Arg Lys Trp Gln Glu Ala Pro Arg

675 680 685
 Lys Gln Ala Ile Ile Glu Glu Leu Ala Gln Leu Gly Ile Leu Trp Asp
 690 695 700
 Val Leu Ala Glu Glu Val Gly Lys Asp Leu Asp Pro Phe Asp Leu Leu
 705 710 715 720
 Cys His Val Val Tyr Gly Gln Pro Pro Leu Thr Arg Gln Glu Arg Ala
 725 730 735
 Ala Asn Val Arg Lys Arg Asn Tyr Phe Thr Lys Tyr Ala Glu Pro Ala
 740 745 750
 Gln Gln Val Leu Asn Thr Leu Leu Asp Lys Tyr Ala Asp Glu Gly Val
 755 760 765
 Gln Glu Ile Glu Asp Val Gln Val Leu Lys Leu Lys Pro Phe Asp Ala
 770 775 780
 Leu Gly Arg Pro Ile Glu Ile Ile Lys Thr Arg Phe Gly Asp Lys Lys
 785 790 795 800
 Ala Tyr Glu Gln Ala Val Asn Glu Leu Glu Asn Glu Ile Tyr Gln Leu
 805 810 815
 Pro Pro Arg Ser Ala
 820

<210> 9319

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 9319

Cys Ser Arg Leu Cys Cys Arg Met Ala Leu Arg Pro Asp Ala Leu Thr
 1 5 10 15
 Pro Ala Leu Ser His Gly Glu Arg Glu Asn Thr Gly Ser Ile Ser Leu
 20 25 30
 Ile Phe His Pro Glu Lys Gly Thr Phe Ser Pro Ser Phe Gln Arg Gly
 35 40 45
 His Ala Ser Ile Met Pro Ile Ile Gln Ser Val Glu Arg Ala Leu Gln
 50 55 60
 Ile Leu Asp Leu Phe Asn Glu Gln Ala Thr Glu Leu Lys Ile Thr Asp
 65 70 75 80
 Ile Ser Lys Leu Met Gly Leu Ser Lys Ser Thr Leu His Ser Leu Leu
 85 90 95
 Lys Thr Leu Gln Leu His Gly Tyr Ile Asp Gln Asn Pro Glu Asn Gly
 100 105 110
 Lys Tyr Arg Leu Gly Met Lys Leu Val Glu Arg Gly His Phe Val Val
 115 120 125
 Gly Ser Ile Asp Ile Arg Gln Lys Ala Lys Gly Trp Leu Thr Glu Leu
 130 135 140
 Ser Gln Arg Thr Gly Gln Thr Thr His Leu Gly Ile Leu Asp Gly Ser
 145 150 155 160
 Glu Gly Val Tyr Ile Glu Lys Ile Glu Gly Lys Leu Ala Ala Ile Ala
 165 170 175
 Tyr Ser Arg Ile Gly Arg Arg Leu Pro Val His Ala Thr Ala Ile Gly
 180 185 190
 Lys Val Leu Ile Ala Trp Leu Gly Glu Ala Glu Leu Asn Ala Leu Leu
 195 200 205
 Glu Gly Tyr His Tyr Thr Thr Tyr Thr Pro Ser Thr Leu Ala Ser Arg
 210 215 220
 Glu Ala Leu Met Ala Ala Leu Thr Gln Thr Arg Glu Gln Gly Tyr Ala
 225 230 235 240
 Leu Asp Ser Glu Glu Asn Glu Gln Gly Val Arg Cys Val Ala Val Pro
 245 250 255
 Val Trp Asn His Glu Ser Arg Val Ile Ala Ala Leu Ser Leu Ser Thr
 260 265 270
 Leu Thr Ser Arg Val Asp Asp Ala Glu Leu Ala Asn Phe Arg Glu Gln

275 280 285
 Leu Gln Gln Ala Gly Leu Gln Leu Ser Arg Ala Leu Gly Tyr Pro Ala
 290 295 300

305

<210> 9320

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 9320

Lys Phe Ser Arg Trp Ser Trp Leu Ser Ser Ser Ala Glu Leu Glu
 1 5 10 15
 Leu Leu Gln Gln Gly Phe Gln Leu Arg Leu Thr Arg Leu Val Gln Arg
 20 25 30
 Arg Gly Gly Arg Gln His Val Gly Arg Asn Arg Thr Thr Ala Glu His
 35 40 45
 Asn Arg Leu Phe Asn Asn Val His Lys Arg Arg Ile Gln Leu Ile His
 50 55 60
 Leu Arg Asp Leu Gln Gln Gly Leu Met Ile Leu Ser Arg Phe Arg His
 65 70 75 80
 Val Phe Ile Pro Pro Gly Phe Gln Lys Ile Tyr Arg His Leu Trp Gly
 85 90 95
 Lys Val Ala Thr Gly Arg Asp Arg Pro Val Ala Ala Glu Gln Gln Gly
 100 105 110
 Ile Lys Gln Met Ile Val Val Ala Ala Glu His Gly Glu Val Arg Met
 115 120 125
 Gly Gly Phe Asp Gly Val Asp His Ala Ala Gln Val Gly Asn Gly Val
 130 135 140
 Asp Gly Val Phe Asp Ala Asp Asp Val Ala Ala Arg Val Gly Gln Gly
 145 150 155 160
 Phe Asp Gln Arg Arg Gly Gln Ile Leu Pro Gly Gln Arg Arg Glu Val
 165 170 175
 Ile Glu His His Arg Gln Arg Asp Ala Val Arg His Leu Leu Glu Ile
 180 185 190
 Ala Asp Gln Val Arg Phe Arg His Phe Pro Val Val Arg Val Asp His
 195 200 205
 His Asp Thr Val Arg Pro Cys Leu Leu Arg Val Leu Ala Gln Leu Asn
 210 215 220
 Gly Phe Pro Gly Val Gly Ala Ala Gly Ala Asp Gln Asp Arg His Ala
 225 230 235
 Thr Ile Asp Met Ile Asp Arg Lys Leu Gly Asn Gly Phe Thr Leu Phe
 245 250 255
 Gly Ala Glu Leu Gly Glu Leu Ala Ala Ala Gln Glu Lys Gln Ala
 260 265 270
 Val Asp Ala Cys Phe Asp Gln Ile Val Asp Gln Arg Gly Gly Ala Leu
 275 280 285
 Leu Ile Glu Leu Ala Ile Gly Gly Lys Asn Gly Gly Asp Arg Gly Asn
 290 295 300
 Asp Thr Arg Glu Gln Arg Gly Leu Arg His Val Ile Ser Leu Leu Asn
 305 310 315 320
 His Phe Val Leu His Cys Arg Thr Val Phe Ile Lys Leu Thr Ile Ile
 325 330 335
 Leu

<210> 9321

<211> 331

<212> PRT

<213> Enterobacter cloacae

<400> 9321

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Thr Tyr Ser Gln Ser Pro Ser Phe Glu Gly Leu Phe Phe Ala Arg Arg
1      5      10      15
Gln Glu Ile Asn Met Asn Pro Leu Tyr Gln Lys His Ile Ile Ser Ile
20      25      30
Asn Asp Leu Ser Arg Glu Glu Leu Glu Leu Val Leu Glu Thr Ala Ala
35      40      45
Lys Leu Lys Ala Asn Pro Gln Pro Glu Leu Leu Lys His Lys Val Ile
50      55      60
Ala Ser Cys Phe Phe Glu Ala Ser Thr Arg Thr Arg Leu Ser Phe Glu
65      70      75      80
Thr Ser Met His Arg Leu Gly Ala Ser Val Val Gly Phe Ser Asp Ser
85      90      95
Ser Asn Thr Ser Leu Gly Lys Lys Gly Glu Thr Leu Ala Asp Thr Ile
100     105     110
Ser Val Ile Ser Thr Tyr Val Asp Ala Ile Val Met Arg His Pro Gln
115     120     125
Glu Gly Ala Ala Arg Leu Ala Thr Glu Phe Ser Gly Gly Ile Pro Val
130     135     140
Leu Asn Ala Gly Asp Gly Ala Asn Gln His Pro Thr Gln Thr Leu Leu
145     150     155     160
Asp Leu Phe Thr Ile Gln Glu Thr Gln Gly Thr Leu Glu Asn Leu Asn
165     170     175
Ile Ala Met Val Gly Asp Leu Lys Tyr Gly Arg Thr Val His Ser Leu
180     185     190
Thr Gln Ala Leu Ala Lys Phe Asn Gly Asn Arg Phe Phe Phe Ile Ala
195     200     205
Pro Asp Ala Leu Ala Met Pro Gln Tyr Ile Leu Asp Met Leu Asp Glu
210     215     220
Lys Gly Ile Ala Trp Ser Leu His Ala Ser Ile Glu Glu Val Met Gly
225     230     235     240
Asn Val Asp Ile Leu Tyr Met Thr Arg Val Gln Lys Glu Arg Leu Asp
245     250     255
Pro Ser Glu Tyr Ala Asn Val Lys Ala Gln Phe Val Leu Arg Ala Gly
260     265     270
Asp Leu Glu Gly Ala Arg Asp Asn Met Lys Val Leu His Pro Leu Pro
275     280     285
Arg Ile Asp Glu Ile Thr Thr Asp Val Asp Lys Thr Pro His Ala Trp
290     295     300
Tyr Phe Gln Gln Ala Gly Asn Gly Ile Phe Ala Arg Gln Ala Leu Leu
305     310     315     320
Ala Leu Val Leu Asn Arg Glu Leu Ala Leu
325     330

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<210> 9322

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 9322

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Gly Glu Thr Thr Met Thr His Asp Asn Lys Leu Gln Val Glu Ala Ile
1      5      10      15
Lys Arg Gly Thr Val Ile Asp His Ile Pro Ala Gln Val Gly Phe Lys
20      25      30
Leu Leu Thr Leu Phe Lys Leu Thr Glu Thr Asp Gln Arg Ile Thr Ile
35      40      45
Gly Leu Asn Leu Pro Ser Gly Glu Met Gly Arg Lys Asp Leu Ile Lys
50      55      60
Ile Glu Asn Thr Phe Leu Thr Asp Glu Gln Val Asn Gln Leu Ser Leu
65      70      75      80

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Tyr Ala Pro Asp Ala Thr Val Asn Arg Ile Asp Glu Tyr Glu Val Val
 85 90 95
 Gly Lys Ser Arg Pro Ser Leu Pro Glu Arg Ile Glu Ser Val Leu Val
 100 105 110
 Cys Pro Asn Ser Asn Cys Ile Ser His Ala Glu Pro Val Ser Ser Ser
 115 120 125
 Phe Ala Val Lys Lys Arg Ala Asn Asp Ile Ala Leu Lys Cys Lys Tyr
 130 135 140
 Cys Glu Lys Glu Phe Ser His Tyr Val Val Leu Ala Asn
 145 150 155

<210> 9323

<211> 598

<212> PRT

<213> Enterobacter cloacae

<400> 9323

Pro Ala Ala Arg Tyr Ser Trp Cys Ser Ser Gly Arg Gln Gln Gly Gly
 1 5 10 15
 Glu Leu Met Thr Val Glu Lys Leu Ile Thr Asp His Ile Asp Ile Trp
 20 25 30
 Ser Ser Ala Leu Gln Thr Arg Ser Thr Ala Gly Arg Gly Ser Asn Gly
 35 40 45
 Lys Ile Asp Leu Tyr Gly Ile Lys Lys Leu Arg Glu Leu Ile Leu Glu
 50 55 60
 Leu Ala Val Arg Gly Lys Leu Val Pro Gln Asp Pro Ser Asp Glu Pro
 65 70 75 80
 Ala Ser Glu Leu Leu Lys Arg Ile Ala Thr Glu Lys Ala Glu Leu Val
 85 90 95
 Lys Gln Gly Lys Ile Lys Lys Gln Lys Pro Leu Pro Glu Ile Ser Glu
 100 105 110
 Asp Glu Lys Pro Phe Glu Leu Pro Glu Gly Trp Glu Leu Asn Arg Leu
 115 120 125
 Gly Asp Leu Ile Asn Val Ile Asn Gly Arg Ala Tyr Lys Lys His Glu
 130 135 140
 Met Leu Gln Ala Gly Thr Pro Leu Leu Arg Val Gly Asn Leu Phe Thr
 145 150 155 160
 Ser Asn Glu Trp Tyr Tyr Ser Asp Leu Glu Leu Glu Pro Glu Lys Tyr
 165 170 175
 Ile Asp Asn Gly Asp Leu Ile Tyr Ser Trp Ser Ala Ser Phe Gly Pro
 180 185 190
 Phe Ile Trp Asn Gly Gly Lys Val Ile Tyr His Tyr His Ile Trp Lys
 195 200 205
 Met Asp Ile Phe Asp Thr Gln Ser Leu Asp Lys His Phe Met Lys Leu
 210 215 220
 Tyr Leu Glu Ser Val Ser Ala Ser Ile Lys Ala Ser Gly Asn Gly Ile
 225 230 235 240
 Ala Met Ile His Met Thr Lys Glu Arg Met Glu Lys Leu Val Ile Pro
 245 250 255
 Leu Pro Pro Arg Ala Glu Gln Leu Arg Ile Val Ala Lys Val Asn Glu
 260 265 270
 Leu Met Ser Leu Cys Asp Gln Leu Glu Gln Gln Ser Leu Thr Ser Leu
 275 280 285
 Asp Ala His Gln Gln Leu Val Glu Thr Leu Leu Ser Thr Leu Thr Asp
 290 295 300
 Cys Lys Asn Ala Glu Glu Leu Ala Glu Asn Trp Ala Arg Ile Ser Gln
 305 310 315 320
 Asn Phe Asp Thr Leu Phe Thr Thr Glu Ala Ser Ile Asp Val Leu Lys
 325 330 335
 Gln Thr Ile Leu Gln Leu Ala Val Met Gly Lys Leu Val Pro Gln Asp
 340 345 350

Pro Asn Asp Glu Pro Ala Ser Glu Leu Leu Lys Arg Ile Asp Gln Glu
 355 360 365
 Lys Ala Gln Leu Val Lys Glu Gly Arg Ile Lys Lys Gln Lys Pro Leu
 370 375 380
 Pro Pro Ile Ser Asp Asp Glu Lys Pro Phe Glu Leu Pro Glu Gly Trp
 385 390 400
 Glu Trp Cys Arg Leu Glu Thr Ile Thr Glu Leu Ile Thr Lys Gly Ser
 405 410 415
 Ser Pro Lys Trp Gln Gly Val Ser Tyr Thr Asp Asn Pro Asn Asp Val
 420 425 430
 Leu Phe Ile Thr Ser Glu Asn Val Gly Ser Phe Lys Ile Leu Leu Asp
 435 440 445
 Ser Glu Lys Tyr Val Glu Lys Lys Phe Asn Glu Ile Glu Pro Arg Ser
 450 455 460
 Ile Leu Thr His Asn Asp Ile Leu Met Asn Ile Val Gly Ala Ser Ile
 465 470 475 480
 Gly Arg Thr Ala Ile Phe Asn Met Asn Arg Asn Ala Asn Ile Asn Gln
 485 490 495
 Ala Val Cys Leu Ile Arg Val Ile Asn Asn Ser Met Leu Leu Ser Tyr
 500 505 510
 Leu Leu Asn Phe Phe Asn Ser Asp Ile Cys Leu Ser Tyr Met Phe Asp
 515 520 525
 Lys Gln Val Asp Asn Ala Arg Ala Asn Leu Ser Met Gly Asn Ile Ala
 530 535 540
 Lys Phe Val Leu Pro Ile Pro Pro Leu Asn Glu Gln Lys Arg Ile Val
 545 550 555 560
 Glu His Ile Asp Asn Leu Met Ser Ile Cys Asp Lys Leu Gln Ser His
 565 570 575
 Leu Gln Ser Val Gln Gln Ile Gln Leu His Leu Ala Asp Ala Leu Thr
 580 585 590
 Asp Ala Ala Leu Asn
 595

<210> 9324

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 9324

Phe Asn Lys Trp His Ser Pro Cys Glu Asp Lys Met Ser Asp Leu Tyr
 1 5 10 15
 Lys Lys His Phe Leu Lys Leu Leu Asp Phe Thr Pro Ala Gln Phe Thr
 20 25 30
 Ser Leu Leu Thr Leu Ala Ala Gln Leu Lys Ala Asp Lys Lys Asn Gly
 35 40 45
 Lys Glu Val Gln Lys Leu Thr Gly Lys Asn Ile Ala Leu Ile Phe Glu
 50 55 60
 Lys Asp Ser Thr Arg Thr Arg Cys Ser Phe Glu Val Ala Ala Phe Asp
 65 70 75 80
 Gln Gly Ala Arg Val Thr Tyr Leu Gly Pro Ser Gly Ser Gln Ile Gly
 85 90 95
 His Lys Glu Ser Ile Lys Asp Thr Ala Arg Val Leu Gly Arg Met Tyr
 100 105 110
 Asp Gly Ile Gln Tyr Arg Gly His Gly Gln Glu Val Val Glu Thr Leu
 115 120 125
 Ala Gln Tyr Ala Gly Val Pro Val Trp Asn Gly Leu Thr Asn Glu Phe
 130 135 140
 His Pro Thr Gln Leu Leu Ala Asp Leu Leu Thr Met Gln Glu His Leu
 145 150 155 160
 Pro Gly Lys Ala Phe Asn Glu Met Thr Leu Val Tyr Ala Gly Asp Ala
 165 170 175

Arg Asn Asn Met Gly Asn Ser Met Leu Glu Ala Ala Ala Leu Thr Gly
 180 185 190
 Leu Asp Leu Arg Leu Val Ala Pro Lys Ala Cys Trp Pro Glu Glu Ser
 195 200 205
 Leu Val Ala Glu Cys Ser Ala Leu Ala Glu Lys His Gly Gly Lys Ile
 210 215 220
 Thr Leu Thr Glu Asn Val Ala Ala Gly Val Lys Gly Ala Asp Phe Ile
 225 230 235 240
 Tyr Thr Asp Val Trp Val Ser Met Gly Glu Ala Lys Glu Lys Trp Ala
 245 250 255
 Glu Arg Ile Ala Leu Leu Arg Gly Tyr Gln Val Asn Ala Gln Met Met
 260 265 270
 Ala Leu Thr Gly Asn Pro Asp Val Lys Phe Leu His Cys Leu Pro Ala
 275 280 285
 Phe His Asp Asp Gln Thr Thr Leu Gly Lys Gln Met Ala Lys Glu Phe
 290 295 300
 Asp Leu His Gly Gly Met Glu Val Thr Asp Glu Val Phe Glu Ser Ala
 305 310 315 320
 Ala Ser Ile Val Phe Asp Gln Ala Glu Asn Arg Met His Thr Ile Lys
 325 330 335
 Ala Val Met Val Ala Thr Leu Gly Glu
 340 345

<210> 9325

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 9325

Ser Ile Ala Asn Trp Ala Met Val Leu Arg Ser Ser Ala Pro Ser Trp
 1 5 10 15
 Glu Asn Ser Pro Pro Leu Pro Arg Lys Asn Arg Pro Ser Thr Pro Ala
 20 25 30
 Leu Ile Arg Ser Ser Ile Ser Ala Ala Val Pro Cys Leu Ser Ser Trp
 35 40 45
 Pro Ser Ala Val Lys Met Val Glu Thr Gly Gly Met Ile Pro Val Asn
 50 55 60
 Asn Ala Asp Cys Gly Met
 65 70

<210> 9326

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 9326

Thr Pro His Met Ala His Ala Leu Phe Ile Leu Lys Lys Val Lys Gly
 1 5 10 15
 Ile Ile Met Glu Lys His Tyr Val Gly Ser Glu Ile Gly Gln Leu Arg
 20 25 30
 Ser Val Met Leu His Arg Pro Asn Leu Ser Leu Lys Arg Leu Thr Pro
 35 40 45
 Ser Asn Cys Gln Glu Leu Leu Phe Asp Asp Val Leu Ser Val Glu Arg
 50 55 60
 Ala Gly Glu Glu His Asp Ile Phe Ala Asn Thr Leu Arg Glu Gln Gly
 65 70 75 80
 Val Glu Val Leu Leu Thr Asp Leu Leu Thr Gln Ser Leu Asp Ile
 85 90 95
 Ala Glu Ala Lys Ala Trp Leu Leu Glu Thr Gln Ile Ser Asp Tyr Arg
 100 105 110
 Leu Gly Pro Thr Phe Ala Ala Asp Val Arg Gly Trp Leu Ala Asp Met

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      115              120              125
Pro His Arg Glu Leu Ala Arg Arg Leu Ser Gly Gly Leu Thr Tyr Gly
  130              135              140
Glu Ile Pro Ala Ala Ile Lys Asn Met Val Val Asp Thr His Thr Ala
  145              150              155
Asn Asp Phe Ile Met Lys Pro Leu Pro Asn His Leu Phe Thr Arg Asp
      165              170              175
Thr Ser Cys Trp Ile Tyr Asn Gly Val Ser Ile Asn Pro Met Ala Lys
      180              185              190
Pro Ala Arg Gln Arg Glu Thr Asn Asn Leu Arg Ala Ile Tyr Arg Trp
  195              200              205
His Pro Ala Phe Ala Asp Gly Glu Phe Ile Lys Tyr Phe Gly Asp Glu
  210              215              220
Asn Ile Asn Tyr Asp His Ala Thr Leu Glu Gly Gly Asp Val Leu Val
  225              230              235
Ile Gly Arg Gly Ala Val Leu Ile Gly Met Ser Glu Arg Thr Thr Pro
      245              250              255
Gln Gly Val Glu Phe Leu Ala Asn Ser Leu Phe Lys His Arg Gln Ala
      260              265              270
Glu Arg Val Ile Ala Val Glu Leu Pro Lys His Arg Ser Cys Met His
  275              280              285
Leu Asp Thr Val Met Thr His Ile Asp Val Asp Thr Phe Ser Val Tyr
  290              295              300
Pro Glu Val Val Arg Lys Asp Ala Gln Cys Trp Thr Leu Thr Pro Asp
  305              310              315
Gly Arg Gly Gly Leu Leu Arg Thr Gln Glu Thr Asp Leu Leu His Ala
      325              330              335
Ile Glu Lys Ala Leu Gly Ile Asn Gln Val Arg Leu Ile Thr Thr Gly
      340              345              350
Gly Asp Ala Phe Glu Ala Glu Arg Glu Gln Trp Asn Asp Ala Asn Asn
      355              360              365
Val Leu Thr Ile Arg Pro Gly Val Val Ile Gly Tyr Glu Arg Asn Val
      370              375              380
Trp Thr Asn Glu Lys Tyr Asp Lys Ala Gly Ile Thr Val Leu Pro Ile
  385              390              395
Pro Gly Asp Glu Leu Gly Arg Gly Arg Gly Ala Arg Cys Met Ser
      405              410              415
Cys Pro Leu Glu Arg Asp Gly Ile
      420              425

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<210> 9327

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 9327

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Gln Phe Lys Lys Asp Phe Pro Met Thr Ile Asn Leu Lys Asn Arg Asn
  1              5              10              15
Phe Leu Lys Leu Leu Asp Tyr Thr Pro Ala Glu Ile Gln Tyr Leu Ile
      20              25              30
Asp Leu Ala Ile Glu Leu Lys Ala Ala Lys Lys Ala Gly Arg Glu Lys
  35              40              45
Gln Thr Leu Val Gly Lys Asn Ile Ala Leu Ile Phe Glu Lys Thr Ser
  50              55              60
Thr Arg Thr Arg Cys Ala Phe Glu Val Gly Ala Phe Asp Gln Gly Ala
  65              70              75              80
Gln Val Thr Tyr Leu Gly Pro Ser Gly Ser Gln Ile Gly His Lys Glu
      85              90              95
Ser Met Lys Asp Thr Ala Arg Val Leu Gly Arg Met Tyr Asp Gly Ile
      100              105              110
Glu Tyr Arg Gly Tyr Gly Gln Ala Ile Val Glu Glu Leu Gly Glu Tyr

```

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115          120          125
Ala Gly Val Pro Val Trp Asn Gly Leu Thr Asp Glu Phe His Pro Thr
130          135          140
Gln Ile Leu Ala Asp Leu Met Thr Met Leu Glu His Ser Pro Gly Lys
145          150          155
Thr Leu Pro Glu Leu Ser Phe Ala Tyr Leu Gly Asp Ala Arg Asn Asn
165          170          175
Met Gly Asn Ser Leu Met Val Gly Ala Ala Lys Met Gly Met Asp Ile
180          185          190
Arg Leu Val Ala Pro Lys Ser Phe Trp Pro Glu Ala Gly Leu Val Glu
195          200          205
Gln Cys Arg Ala Ile Ala Lys Glu Thr Gly Ala Arg Ile Thr Leu Thr
210          215          220
Asp Asp Val Glu Glu Gly Val Gln Gly Thr Asp Phe Leu Tyr Thr Asp
225          230          235
Val Trp Val Ser Met Gly Glu Pro Lys Glu Ala Trp Ala Glu Arg Val
245          250          255
Ser Leu Met Lys Pro Tyr Gln Ile Asn Ala Gln Val Met Lys Ala Thr
260          265          270
Gly Asn Pro Asn Val Lys Phe Met His Cys Leu Pro Ala Phe His Asn
275          280          285
Glu His Thr Lys Val Gly Arg Glu Ile Glu Met Ala Tyr Gly Leu Lys
290          295          300
Gly Leu Glu Val Thr Glu Glu Val Phe Glu Ser Pro Asn Ser Ile Val
305          310          315
Phe Asp Glu Ala Glu Asn Arg Met His Thr Ile Lys Ala Val Met Val
325          330          335
Ala Thr Leu Gly Asp
340

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<210> 9328

<211> 236

<212> PRT

<213> *Enterobacter cloacae*

<400> 9328

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Pro Asp His Ser His Leu Cys Arg Arg Asp Gly Arg Ala Gly Tyr Arg
1      5      10      15
Pro Arg Ala Leu Arg Ala Leu Ser Glu Met Gly Arg Ala Ala Gly
20     25     30
Asp Phe Asn Gly Gly Asp Tyr Gly Gly Val Lys Pro Gly Arg Phe Val
35     40     45
Val Ile Cys Arg Met Ala Leu Arg Leu Ser Gly Leu Arg Ile Gly Ala
50     55     60
Val Pro Pro Val Ile Ser Gly Thr Asp Met Gly Thr Met Met Asp Tyr
65     70     75     80
Glu Glu Tyr Ser Pro Lys Glu Gln Leu Gln Leu Thr Val Cys Gln Arg
85     90     95
Leu Ile Ala Glu Lys Ser Tyr Leu Ser Gln Glu Glu Ile Arg Arg Asp
100    105    110
Leu Gln Glu Arg Gly Phe Glu Thr Ile Ser Gln Ser Thr Val Ser Arg
115    120    125
Leu Leu Lys Leu Leu Gly Val Ile Lys Ile Arg Asn Ala Lys Gly Leu
130    135    140
Lys Ile Tyr Ser Leu Asn Pro Gln Leu Arg Pro Ala Pro Asp Ala Ala
145    150    155    160
Arg Thr Val Ser Glu Met Val Val Ser Val Glu His Asn Ser Glu Phe
165    170    175
Ile Leu Ile His Thr Val Ala Gly Tyr Gly Arg Ala Val Ala Arg Ile
180    185    190
Leu Asp Tyr His Gln Leu Pro Glu Ile Leu Gly Val Val Ala Gly Ser

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<210> 9329
<211> 136
<212> PRT
<213> Enterobacter cloacae
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<210> 9330
<211> 483
<212> PRT
<213> Enterobacter cloacae
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400> 9330																	
Met	Lys	Leu	Ser		Lys	Ile	Ala	Leu	Ala	Val	Thr	Thr	Leu	Thr	Val	Ala	
1				5						10					15		
Ser	Ser	Ala	Leu	Ala	His	Gly	Tyr	Ala	Glu	Ser	Pro	Ala	Ser	Arg	Ala		
			20					25					30				
Tyr	Met	Cys	Lys	Leu	Gly	Gln	Asn	Ile	Asp	Cys	Gly	Ser	Val	Gln	Tyr		
		35					40					45					
Glu	Pro	Gln	Ser	Val	Glu	Lys	Thr	Ser	Gly	Phe	Pro	Thr	Gly	Ala	Met		
	50					55				60							
Pro	Pro	Asp	Gly	Gln	Leu	Ala	Ser	Ala	Gly	Ile	Ala	Ser	Tyr	Ser	Gln		
65				70						75					80		
Leu	Asp	Lys	Gln	Ser	Leu	Asn	Ala	Trp	Thr	Lys	Asn	Pro	Met	Thr	Ala		
				85					90					95			
Gly	Pro	His	Glu	Phe	Val	Trp	His	His	Thr	Ala	Pro	His	Lys	Thr	Thr		
			100					105					110				
Asn	Trp	Arg	Tyr	Tyr	Ile	Thr	Lys	Gln	Asn	Trp	Asp	Pro	Asn	Lys	Pro		
			115				120					125					
Leu	Thr	Arg	Asp	Gln	Phe	Glu	Leu	Thr	Pro	Phe	Cys	Thr	Ile	Asn	Gly		
	130					135				140							
Asn	Gly	Gln	Ala	Pro	Ala	Met	Thr	Lys	Ser	Met	Thr	Cys	Asn	Val	Pro		
145					150					155				160			
Glu	Arg	Thr	Gly	Tyr	Gln	Val	Ile	Tyr	Gly	Val	Trp	Glu	Ile	Ala	Asp		
				165					170					175			
Thr	Ala	Asn	Ser	Phe	Tyr	Gln	Ala	Ile	Asp	Val	Asp	Phe	Gly	Asn	Gly		
			180					185					190				

Gly Asn Val Thr Pro Asp Asp Thr Pro Ala Val Ile Ser Gln Trp Ser
 195 200 205
 Lys Thr Leu Ser Gly Gln Ile Ala Gly Asn Asn Leu Asn Thr Gly Asp
 210 215 220
 Arg Val Ile Ala Arg Phe Phe Asp Ala Asn Gly Glu Val Ala Ala Leu
 225 230 235 240
 Arg Thr Glu Leu Thr Ile Gly Ser Val Ala Gln Gly Asp Thr Asn Gln
 245 250 255
 Trp Ser Tyr Asp Leu Ala Gln Lys Ile Asn Ala Ala Tyr Ser Asp Val
 260 265 270
 Arg Val Gly Val Lys Asp Glu Ala Gly Glu Ile Ser Pro Val His Gly
 275 280 285
 Ala Asn Ser Val Phe Val Lys Asp Gly Ser Ala Leu Gln Ser Val Ala
 290 295 300
 Ile Ser Tyr Glu Glu Gln Lys Ala Glu Val Asn Glu Thr Ile Ala Val
 305 310 315 320
 Ser Asn Pro His Tyr Ser Lys Ile Glu Asn Gly Lys Ala Ser Val Thr
 325 330 335
 Phe His Val Asn Thr Lys Gly Asp Val Asn Val Glu Ala His Val Met
 340 345 350
 Asn His Ser Gly Ala Glu Lys Gly Tyr Leu Lys Gln Glu Met Asn Asn
 355 360 365
 Ala Ser Gln Asp Val Thr Met Thr Leu Thr Asp Val Thr Ala Gly His
 370 375 380
 His Met Leu Lys Tyr Tyr Ala Thr Asn Lys Asp Gly Thr Leu Phe Ala
 385 390 395 400
 Gln Asp Val Leu Asp Leu Met Leu Glu Ser Asp Ala Ala Asp Ser Asn
 405 410 415
 Gly Pro His Asp Phe Ile Phe Pro Asp Asn Val Ala Ser Tyr Lys Ala
 420 425 430
 Gly Thr Val Val Leu Gln Pro Lys Asp Gly Lys Thr Tyr Glu Cys Arg
 435 440 445
 Pro Val Pro Phe Ser Gly Tyr Cys Val Gln Tyr Ser Pro Thr Ala Asn
 450 455 460
 Gln Phe Glu Pro Gly Val Gly Ala His Trp Arg Glu Ala Trp Val Leu
 465 470 475 480
 Lys Asp

<210> 9331

<211> 326

<212> PRT

<213> *Enterobacter cloacae*

<400> 9331

Leu Phe Tyr Arg Cys Tyr Arg Glu Tyr Ser Met Gln Asn Arg Leu Thr
 1 5 10 15
 Ile Lys Asp Ile Ala Arg Leu Ser Gly Val Gly Lys Ser Thr Val Ser
 20 25 30
 Arg Val Leu Asn Asn Glu Ser Gly Val Ser Glu Arg Thr Arg Glu Arg
 35 40 45
 Val Glu Ala Val Met Asn Gln His Gly Phe Ser Pro Ser Arg Ser Ala
 50 55 60
 Arg Ala Met Arg Gly Gln Ser Asp Lys Val Val Ala Ile Ile Val Ser
 65 70 75 80
 Arg Leu Asp Ser Leu Ser Glu Asn Leu Ala Val Gln Thr Met Leu Pro
 85 90 95
 Ala Phe Tyr Glu Gln Gly Tyr Asp Pro Ile Met Met Glu Ser Lys Phe
 100 105 110
 Ser Ala Gln Met Val Glu Glu His Leu Gly Met Leu Gln Arg Arg Asn
 115 120 125

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Ile Asp Gly Val Val Leu Phe Gly Phe Thr Gly Leu Lys Glu Asp Val
130 135 140
Leu Lys Pro Trp Gln Pro Ser Leu Val Leu Leu Ala Arg Asp Ala Ser
145 150 155 160
Gly Phe Ala Ser Val Cys Tyr Asp Asp Glu Gly Ala Ile Val Ile Leu
165 170 175
Met Gln Arg Leu Tyr Glu Gln Gly His Arg His Ile Ser Tyr Leu Gly
180 185 190
Val Pro His Ala Asp Ile Thr Thr Gly Lys Arg Arg His Glu Ala Tyr
195 200 205
Leu Ala Phe Cys Lys Lys His Asn Leu Pro Ala Val Ala Ala Leu Pro
210 215 220
Gly Leu Gly Met Lys Gln Gly Tyr Glu Gln Val Ala Ser Val Leu Thr
225 230 235 240
Pro Gln Thr Thr Ala Leu Val Cys Ala Thr Asp Thr Leu Ala Leu Gly
245 250 255
Ala Ser Lys Tyr Leu Gln Glu Gln Arg Ile Gly Glu Leu Gln Leu Ala
260 265 270
Ser Val Gly Ser Thr Pro Leu Met Lys Phe Leu His Pro Glu Ile Ile
275 280 285
Ser Val Asp Pro Gly Tyr Ala Glu Ser Gly Arg Gln Ala Ala Ala Gln
290 295 300
Leu Ile Glu Gln Ile Asn Gly Arg Ala Glu Pro Arg Gln Ile Val Ile
305 310 315 320
Pro Ala Arg Leu Ser
325

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<210> 9332

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 9332

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Leu Ser Gln Glu Met Arg Met Leu Lys Arg Glu Met Asn Ile Ala Asp
1 5 10 15
Tyr Asp Ala Glu Leu Trp Gln Ala Met Glu Gln Glu Lys Val Arg Gln
20 25 30
Glu Glu His Ile Glu Leu Ile Ala Ser Glu Asn Tyr Thr Ser Pro Arg
35 40 45
Val Met Gln Ala Gln Gly Ser Gln Leu Thr Asn Lys Tyr Ala Glu Gly
50 55 60
Tyr Pro Gly Lys Arg Tyr Tyr Gly Gly Cys Glu Tyr Val Asp Ile Val
65 70 75 80
Glu Gln Leu Ala Ile Asp Arg Ala Lys Glu Leu Phe Gly Ala Asp Tyr
85 90 95
Ala Asn Val Gln Pro His Ser Gly Ser Gln Ala Asn Phe Ala Val Tyr
100 105 110
Thr Ala Leu Leu Gln Pro Gly Asp Thr Val Leu Gly Met Asn Leu Ala
115 120 125
Gln Gly Gly His Leu Thr His Gly Ser Pro Val Asn Phe Ser Gly Lys
130 135 140
Leu Tyr Asn Ile Ile Pro Tyr Gly Ile Asp Glu Ser Gly Lys Ile Asp
145 150 155 160
Tyr Glu Asp Met Ala Lys Gln Ala Lys Glu His Lys Pro Lys Met Ile
165 170 175
Ile Gly Gly Phe Ser Ala Tyr Ser Gly Ile Val Asp Trp Ala Lys Met
180 185 190
Arg Glu Ile Ala Asp Ser Ile Gly Ala Tyr Leu Phe Val Asp Met Ala
195 200 205
His Val Ala Gly Leu Ile Ala Ala Gly Val Tyr Pro Asn Pro Val Pro
210 215 220

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His Ala His Val Val Thr Thr Thr Thr His Lys Thr Leu Ala Gly Pro
 225 230
 Arg Gly Gly Leu Ile Leu Ala Lys Gly Gly Asp Glu Glu Leu Tyr Lys
 245 250
 Lys Leu Asn Ser Ala Val Phe Pro Ser Ala Gln Gly Gly Pro Leu Met
 260 265 270
 His Val Ile Ala Ala Lys Ala Val Ala Leu Lys Glu Ala Met Glu Pro
 275 280 285
 Glu Phe Lys Val Tyr Gln Gln Gln Val Ala Lys Asn Ala Lys Ala Met
 290 295 300
 Val Glu Val Phe Leu Asn Arg Gly Tyr Lys Val Val Ser Gly Gly Thr
 305 310 315 320
 Glu Asn His Leu Phe Leu Leu Asp Leu Val Asp Lys Asn Leu Thr Gly
 325 330 335
 Lys Glu Ala Asp Ala Ala Leu Gly Arg Ala Asn Ile Thr Val Asn Lys
 340 345 350
 Asn Ser Val Pro Asn Asp Pro Lys Ser Pro Phe Val Thr Ser Gly Ile
 355 360 365
 Arg Ile Gly Ser Pro Ala Val Thr Arg Arg Gly Phe Lys Glu Ala Glu
 370 375 380
 Val Lys Glu Leu Ala Gly Trp Met Cys Asp Val Leu Asp Asn Ile Asn
 385 390 395 400
 Asp Asp Ala Val Ile Glu Arg Val Lys Gly Lys Val Leu Asp Ile Cys
 405 410 415
 Ala Arg Phe Pro Val Tyr Ala
 420

<210> 9333

<211> 402

<212> PRT

<213> *Enterobacter cloacae*

<400> 9333

Arg Ala Asn Asp Leu Leu Lys Ser Gly Ile Asn Ala Arg Leu Ser Pro
 1 5 10 15
 Pro Phe Arg Glu Gly Phe Met Val Leu His Ser Thr Arg Trp Leu Ala
 20 25 30
 Leu Ser Tyr Phe Thr Tyr Phe Phe Ser Tyr Gly Ile Phe Leu Pro Phe
 35 40 45
 Trp Ser Val Trp Leu Lys Gly Ile Gly Leu Thr Pro Glu Thr Ile Gly
 50 55 60
 Ile Leu Leu Gly Ala Gly Leu Val Ala Arg Phe Leu Gly Ser Leu Leu
 65 70 75 80
 Ile Ala Pro Arg Val Ser Asp Pro Ser Leu Leu Ile Lys Ala Val Arg
 85 90 95
 Ile Leu Ala Leu Leu Thr Leu Val Phe Ala Val Cys Phe Trp Val Ser
 100 105 110
 His Gln Phe Ala Trp Leu Met Val Val Met Val Gly Phe Asn Leu Phe
 115 120 125
 Phe Ser Pro Leu Val Pro Leu Thr Asp Ala Leu Ala Asn Thr Trp Gln
 130 135 140
 Lys Gln Ile Thr Met Asp Tyr Gly Arg Val Arg Leu Trp Gly Ser Ile
 145 150 155 160
 Ala Phe Val Ile Gly Ser Ala Leu Val Gly Lys Leu Val Ser Leu Tyr
 165 170 175
 Asp Tyr Arg Ala Ile Leu Ala Leu Leu Thr Leu Gly Ile Ala Ser Met
 180 185 190
 Leu Leu Gly Met Leu Leu Arg Pro Ser Val Met Pro Gln Gly Glu Ser
 195 200 205
 Arg His Gln Glu Ser Ala Gly Trp Pro Ala Trp Arg Ser Leu Val Ala
 210 215 220

Gln Ser Trp Arg Phe Leu Ala Cys Val Cys Leu Leu Gln Gly Ala His
 225 230 235 240
 Ala Ala Tyr Tyr Gly Phe Ser Ala Ile Tyr Trp Gln Gly Ala Gly Tyr
 245 250 255
 Ser Ala Ser Ala Val Gly Tyr Leu Trp Ser Leu Gly Val Val Ala Glu
 260 265 270
 Val Ile Ile Phe Ala Leu Ser Gln Lys Leu Phe Arg Arg Phe Gly Ala
 275 280 285
 Arg Asp Leu Leu Leu Ser Ala Val Cys Gly Val Ala Arg Trp Gly
 290 295 300
 Ile Met Gly Trp Thr Thr Glu Leu Pro Trp Leu Ile Val Ala Gln Ile
 305 310 315 320
 Leu His Cys Gly Thr Phe Thr Val Cys His Leu Ala Ala Met Arg Tyr
 325 330 335
 Ile Ala Ala Arg Glu Gly Gly Asp Val Ile Arg Leu Gln Ala Val Tyr
 340 345 350
 Ser Ala Val Ala Met Gly Gly Ser Ile Ala Val Met Thr Val Phe Ala
 355 360 365
 Gly Phe Leu Tyr Gln His Leu Gly His Gly Val Phe Trp Val Met Ala
 370 375 380
 Leu Val Ala Leu Pro Ala Ile Val Ile Arg Pro Lys Val Ala Ala Arg
 385 390 395 400
 Thr

<210> 9334

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 9334

Gly Leu Ser Met Ser Ile Thr Leu Ser Asp Ser Ala Ala Ala Arg Val
 1 5 10 15
 Ser Ser Phe Leu Ala Asn Arg Gly Lys Gly Phe Gly Leu Arg Leu Gly
 20 25 30
 Val Arg Thr Ser Gly Cys Ser Gly Met Ala Tyr Val Leu Glu Phe Val
 35 40 45
 Asp Glu Pro Ala Ser Asp Asp Thr Val Phe Glu Asp Lys Gly Val Lys
 50 55 60
 Val Val Val Asp Gly Lys Ser Leu His Phe Leu Asn Gly Thr Gln Leu
 65 70 75 80
 Asp Phe Val Lys Glu Gly Leu Asn Glu Gly Phe Lys Phe Thr Asn Pro
 85 90 95
 Asn Val Lys Asp Glu Cys Gly Cys Gly Glu Ser Phe His Val
 100 105 110

<210> 9335

<211> 632

<212> PRT

<213> Enterobacter cloacae

<400> 9335

Thr Thr Arg Arg Lys Ala Ala Arg Phe Leu Ile Ser Glu Ala Ile Met
 1 5 10 15
 Ala Leu Leu Gln Ile Ser Glu Pro Gly Leu Ser Ala Ala Pro His Gln
 20 25 30
 Arg Arg Leu Ala Val Gly Ile Asp Leu Gly Thr Thr Asn Ser Leu Val
 35 40 45
 Ala Thr Val Arg Ser Gly Gln Ala Glu Thr Leu Ala Asp Glu Gln Gly
 50 55 60
 Arg His Leu Leu Pro Ser Val Val His Tyr Gln Gln Gln Gly His Ala

65				70				75				80			
Val	Gly	Phe	Asp	Ala	Arg	Ala	Asn	Ala	Ala	Arg	Asp	Pro	Ala	Asn	Thr
				85				90						95	
Ile	Ser	Ser	Val	Lys	Arg	Met	Met	Gly	Arg	Ser	Leu	Ala	Asp	Ile	Gln
				100				105						110	
Thr	Arg	Tyr	Pro	His	Leu	Pro	Tyr	Gln	Leu	Gln	Ala	Ser	Glu	Asn	Gly
				115				120						125	
Leu	Pro	Met	Ile	Ala	Thr	Ala	Ala	Gly	Leu	Leu	Asn	Pro	Ile	Arg	Val
				130			135				140				
Ser	Ala	Asp	Ile	Leu	Lys	Ala	Leu	Ala	Glu	Arg	Ala	Thr	Ala	Thr	Leu
				145			150				155				160
Gly	Gly	Asp	Leu	Asp	Gly	Val	Val	Ile	Thr	Val	Pro	Ala	Tyr	Phe	Asp
				165					170					175	
Asp	Ala	Gln	Arg	Gln	Gly	Thr	Lys	Asp	Ala	Ala	Arg	Leu	Ala	Gly	Leu
				180				185						190	
His	Val	Leu	Arg	Leu	Leu	Asn	Glu	Pro	Thr	Ala	Ala	Ala	Ile	Ala	Tyr
				195			200					205			
Gly	Leu	Asp	Ser	Gly	Gln	Glu	Gly	Val	Ile	Ala	Val	Tyr	Asp	Leu	Gly
				210			215				220				
Gly	Gly	Thr	Phe	Asp	Ile	Ser	Ile	Leu	Arg	Leu	Ser	Arg	Gly	Val	Phe
				225			230				235				240
Glu	Val	Leu	Ala	Thr	Gly	Gly	Asp	Ser	Ala	Leu	Gly	Gly	Asp	Asp	Phe
				245				250						255	
Asp	His	Leu	Leu	Ala	Asp	Tyr	Ile	Arg	Glu	Gln	Ala	Gly	Ile	Ser	Asp
				260				265						270	
Arg	Ser	Asp	Ala	Arg	Val	Gln	Arg	Glu	Leu	Leu	Asp	Ala	Ala	Ile	Asp
				275			280					285			
Ala	Lys	Ile	Ala	Leu	Ser	Asp	Ala	Gln	Ser	Val	Ser	Val	Asn	Val	Ala
				290			295				300				
Gly	Trp	Gln	Gly	Glu	Ile	Thr	Arg	Asp	Arg	Phe	Arg	Glu	Leu	Ile	Ala
				305			310				315				320
Pro	Leu	Val	Lys	Arg	Thr	Leu	Leu	Ala	Cys	Arg	Arg	Ala	Leu	Lys	Asp
				325				330						335	
Ala	Gly	Val	Glu	Ala	Asn	Glu	Val	Leu	Glu	Val	Val	Met	Val	Gly	Gly
				340				345				350			
Ser	Thr	Arg	Val	Pro	Leu	Val	Arg	Glu	Arg	Val	Gly	Glu	Phe	Phe	Gly
				355			360					365			
Arg	Thr	Pro	Leu	Thr	Ser	Ile	Asp	Pro	Asp	Lys	Val	Val	Ala	Val	Gly
				370			375				380				
Ala	Ala	Ile	Gln	Ala	Asp	Ile	Leu	Val	Gly	Asn	Lys	Pro	Asp	Ser	Glu
				385			390				395				400
Met	Leu	Leu	Leu	Asp	Val	Ile	Pro	Leu	Ser	Leu	Gly	Leu	Glu	Thr	Met
				405				410						415	
Gly	Gly	Leu	Val	Glu	Lys	Val	Ile	Pro	Arg	Asn	Thr	Thr	Ile	Pro	Val
				420				425					430		
Ala	Arg	Ala	Gln	Glu	Phe	Thr	Thr	Phe	Lys	Asp	Gly	Gln	Thr	Ala	Met
				435			440					445			
Ser	Ile	His	Val	Met	Gln	Gly	Glu	Arg	Glu	Leu	Val	Gln	Asp	Cys	Arg
				450			455				460				
Ser	Leu	Ala	Arg	Phe	Ala	Leu	Arg	Gly	Ile	Pro	Ala	Leu	Pro	Ala	Gly
				465			470				475				480
Gly	Ala	His	Ile	Arg	Val	Thr	Phe	Gln	Val	Asp	Ala	Asp	Gly	Leu	Leu
				485				490						495	
Ser	Val	Thr	Ala	Met	Glu	Lys	Ser	Thr	Gly	Ile	Glu	Ser	Ser	Ile	Gln
				500				505				510			
Val	Lys	Pro	Ser	Tyr	Gly	Leu	Thr	Asp	Gly	Glu	Ile	Ala	Ser	Met	Ile
				515			520					525			
Gln	Asp	Ser	Met	Ser	Tyr	Ala	Glu	Gln	Asp	Val	Lys	Ala	Arg	Met	Leu
				530			535				540				
Ala	Glu	Gln	Lys	Val	Glu	Ala	Ala	Arg	Val	Leu	Glu	Ser	Leu	Asn	Gly
				545			550				555				560

Ala Leu Ala Ala Asp Ala Ala Leu Leu Ser Ala Ala Glu Arg Gln Val
 565 570
 Ile Asp Asp Ala Ala Ala Arg Leu Ser Ala Val Ala Glu Gly Asn Asp
 580 585 590
 Ala Asp Ala Ile Glu Glu Ala Ile Lys Asn Val Asp Lys Gln Thr Gln
 595 600 605
 Asp Phe Ala Ala Arg Arg Met Asp Lys Ser Val Arg Val Ala Leu Lys
 610 615 620
 Gly Gln Ser Val Asp Glu Val
 625 630

<210> 9336

<211> 1661

<212> PRT

<213> Enterobacter cloacae

<400> 9336

Pro Thr Gly Pro Ser Gly Gln Gly His Arg Met Lys Pro Phe Arg Leu
 1 5 10 15
 Ala Ala Ile Ser Leu Ala Leu Leu Thr Thr Phe Thr Leu Val Gly Cys
 20 25 30
 Asp Asn Ser Asp Asp Lys Pro Gln Ala Ala Ala Pro Ala Ala Ser Thr
 35 40 45
 Ala Ser Glu Gln Lys Thr Pro Ala Thr Pro Asp Pro Glu Lys Leu Ala
 50 55 60
 Lys Leu Ala Ala Gln Ser Gln Gly Lys Ala Leu Thr Leu Leu Asp Ala
 65 70 75 80
 Ser Glu Val Gln Leu Asp Gly Ala Ala Thr Leu Val Leu Thr Phe Ser
 85 90 95
 Val Pro Leu Asp Pro Ser Gln Asp Phe Ala Lys Thr Val His Val Val
 100 105 110
 Asp Lys Lys Ser Gly Lys Val Asp Gly Ala Trp Glu Leu Ala Pro Asn
 115 120 125
 Leu Lys Glu Leu Arg Leu Arg His Leu Glu Pro Asn Arg Asn Leu Val
 130 135 140
 Val Thr Val Glu Arg Asp Leu Leu Ala Leu Asn Lys Ala Thr Phe Gly
 145 150 155 160
 Ile Asp Tyr Glu Lys Ala Ile Thr Thr Arg Asp Val Glu Pro Thr Val
 165 170 175
 Gly Phe Ala Ser Arg Gly Ser Leu Leu Pro Gly Lys Val Val Glu Gly
 180 185 190
 Leu Pro Val Met Ala Leu Asn Val Asn Asn Val Asp Val Asn Phe Tyr
 195 200 205
 Arg Val Lys Pro Glu Ser Leu Ala Ser Phe Val Ser Gln Trp Glu Tyr
 210 215 220
 Arg Asn Ser Leu Thr Asn Trp Glu Ser Asp Asn Leu Leu Lys Met Ala
 225 230 235 240
 Glu Leu Val Tyr Thr Gly Arg Phe Asp Leu Asn Pro Ala Arg Asn Thr
 245 250 255
 Arg Glu Lys Leu Leu Leu Pro Leu Lys Asp Ile Lys Pro Leu Gln Gln
 260 265 270
 Ser Gly Val Tyr Ile Ala Val Met Asn Gln Ala Gly His Tyr Asn Tyr
 275 280 285
 Ser Asn Ala Ala Thr Leu Phe Thr Leu Ser Asp Ile Gly Leu Ser Ala
 290 295 300
 His Arg Tyr His Asn Arg Leu Asp Ile Phe Thr Gln Ser Leu Glu Asn
 305 310 315 320
 Gly Ala Ala Gln Ser Gly Val Thr Ile Thr Leu Leu Asn Asp Lys Gly
 325 330 335
 Gln Thr Leu Ala Glu Ala Asn Ser Asp Ala Asp Gly His Ala Lys Leu
 340 345 350

Glu Thr Asp Lys Glu Ala Ala Leu Ile Leu Ala Ser Lys Asp Gly Gln
 355 360 365
 Thr Thr Leu Leu Asp Leu Lys Leu Pro Ala Leu Asp Leu Ala Glu Phe
 370 375 380
 Asp Ile Ala Gly Asn Pro Gly Tyr Ser Lys Gln Phe Phe Met Phe Gly
 385 390 395 400
 Pro Arg Asp Leu Tyr Arg Pro Gly Glu Thr Val Ile Leu Asn Gly Leu
 405 410 415
 Leu Arg Asp Ser Asp Gly Lys Pro Leu Pro Asp Gln Pro Val Lys Leu
 420 425 430
 Asp Val Leu Arg Pro Asp Gly Gln Val Ala Arg Thr Val Val Val Gln
 435 440 445
 Pro Glu Asn Gly Leu Tyr Arg Phe Asn Tyr Ser Leu Asp Ser Gly Ala
 450 455 460
 Gln Thr Gly Met Trp His Ile Arg Ala Asn Thr Gly Asp Asn Gln Gln
 465 470 475 480
 Arg Met Trp Asp Phe His Val Glu Asp Phe Met Pro Glu Arg Met Ala
 485 490 495
 Leu Asn Leu Thr Gly Gln Lys Thr Pro Val Ser Pro Gln Glu Asp Val
 500 505 510
 Asp Phe Asn Val Val Gly Tyr Tyr Leu Tyr Gly Ala Pro Ala Asn Gly
 515 520 525
 Asn Ser Leu Gln Gly Gln Leu Phe Leu Arg Pro Leu Arg Asp Ala Val
 530 535 540
 Pro Ala Leu Pro Gly Phe Gln Phe Gly Asp Ile Ala Glu Glu Asn Leu
 545 550 555 560
 Ser Arg Ser Leu Asp Glu Val Gln Leu Thr Leu Asp Glu Gln Gly Arg
 565 570 575
 Gly Gln Val Thr Thr Glu Ser Gln Trp Lys Glu Ala His Ser Pro Leu
 580 585 590
 Gln Leu Ile Leu Gln Ala Ser Leu Leu Glu Ser Gly Gly Arg Pro Val
 595 600 605
 Thr Arg Arg Ala Glu Gln Ala Ile Trp Pro Ala Ala Glu Leu Pro Gly
 610 615 620
 Ile Arg Pro Gln Phe Ala Ser Lys Ala Val Tyr Asp Tyr Arg Thr Asp
 625 630 635 640
 Thr Thr Val Asn Gln Pro Ile Val Asp Glu Asn Gly Asn Ala Ser Phe
 645 650 655
 Asp Ile Val Tyr Ala Asp Ala Ser Gly Ala Lys Lys Ala Val Ser Gly
 660 665 670
 Leu Gln Val Arg Leu Ile Arg Glu Arg Arg Asp Tyr Phe Trp Asn Trp
 675 680 685
 Ser Glu Ser Glu Gly Trp Gln Ser Gln Phe Asp Gln Lys Asp Leu Val
 690 695 700
 Glu Gly Glu Gln Glu Leu Asn Leu Lys Ala Asp Glu Thr Gly Lys Val
 705 710 715 720
 Thr Phe Pro Val Glu Trp Gly Ser Tyr Arg Leu Glu Val Lys Ala Pro
 725 730 735
 Asp Asp Met Val Ser Ser Val Arg Phe Trp Ala Gly Tyr Ser Trp Gln
 740 745 750
 Asp Asn Ser Asp Gly Thr Gly Ala Ala Arg Pro Asp Arg Val Thr Leu
 755 760 765
 Lys Leu Asp Lys Pro Ser Tyr Gln Pro Gly Asp Thr Ile Gln Leu His
 770 775 780
 Ile Ala Ala Pro Ala Ala Gly Lys Gly Tyr Ala Met Ile Glu Ser Ser
 785 790 795 800
 Glu Gly Pro Leu Trp Trp Lys Glu Ile Asp Val Pro Ala Asn Gly Leu
 805 810 815
 Asp Leu Ala Ile Pro Val Asp Lys Ala Trp Lys Arg His Asp Leu Tyr
 820 825 830
 Leu Ser Thr Leu Val Val Arg Pro Gly Asp Lys Ser Lys Ser Ala Thr

835				840				845							
Pro	Lys	Arg	Ala	Val	Gly	Leu	Leu	His	Leu	Pro	Met	Gly	Asp	Glu	Asn
850						855				860					
Arg	Arg	Leu	Asn	Ile	Ala	Leu	Asp	Asn	Pro	Gln	Lys	Met	Arg	Pro	Asn
865					870					875					880
Gln	Thr	Leu	Ser	Val	Lys	Val	Lys	Ala	Ser	Val	Lys	Glu	Gly	Ala	Val
				885					890					895	
Pro	Gln	Lys	Val	Asn	Val	Leu	Val	Ser	Ala	Val	Asp	Ser	Gly	Val	Leu
			900					905					910		
Asn	Ile	Thr	Asp	Tyr	Val	Thr	Pro	Asp	Pro	Trp	Gln	Ala	Phe	Phe	Gly
		915					920					925			
Gln	Lys	Arg	Tyr	Gly	Ala	Asp	Ile	Tyr	Asp	Val	Tyr	Gly	Gln	Val	Ile
930					935						940				
Glu	Gly	Gln	Gly	Arg	Leu	Ala	Ala	Leu	Arg	Phe	Gly	Gly	Asp	Gly	Asp
945					950					955					960
Glu	Leu	Lys	Arg	Gly	Gly	Lys	Pro	Pro	Val	Asn	His	Val	Thr	Ile	Ile
				965					970					975	
Ala	Gln	Gln	Ala	Gln	Pro	Val	Thr	Leu	Asp	Ala	Asn	Gly	Glu	Gly	Thr
				980					985				990		
Ile	Thr	Leu	Pro	Ile	Gly	Asp	Phe	Asn	Gly	Glu	Leu	Arg	Leu	Met	Ala
		995				1000						1005			
Gln	Ala	Trp	Thr	Glu	Asp	Asp	Phe	Gly	Ser	Ser	Glu	Ser	Lys	Ile	Ile
1010					1015					1020					
Val	Ala	Ala	Pro	Ile	Ile	Thr	Glu	Leu	Asn	Thr	Pro	Arg	Phe	Leu	Ala
1025					1030					1035					1040
Ser	Gly	Asp	Thr	Ser	Arg	Leu	Thr	Leu	Asp	Leu	Thr	Asn	Leu	Thr	Asp
				1045					1050					1055	
Gln	Pro	Gln	Thr	Leu	Ser	Ile	Ala	Leu	Thr	Ala	Ala	Gly	Lys	Leu	Ser
			1060					1065					1070		
Leu	Glu	Gly	Ala	Gln	Pro	Glu	Pro	Val	Lys	Leu	Pro	Pro	Gly	Ala	Arg
		1075					1080						1085		
Ser	Thr	Leu	Phe	Ile	Pro	Val	Arg	Ala	Leu	Glu	Gly	Tyr	Gly	Asp	Gly
1090					1095					1100					
Glu	Val	Thr	Ala	Gln	Val	Thr	Gly	Leu	Gln	Leu	Pro	Gly	Glu	Thr	Phe
1105					1110					1115					1120
Ala	Pro	Gln	Gln	Lys	Ser	Trp	Lys	Ile	Gly	Val	Arg	Pro	Ala	Phe	Pro
				1125					1130					1135	
Ala	Gln	Thr	Val	Asn	Thr	Gly	Thr	Met	Leu	Asn	Pro	Gly	Glu	Ser	Trp
			1140					1145					1150		
Ser	Ala	Pro	Ala	Gln	His	Ile	Glu	Gly	Phe	Ser	Pro	Ala	Thr	Leu	Gln
			1155				1160					1165			
Gly	Gln	Leu	Leu	Leu	Ser	Gly	Lys	Pro	Pro	Leu	Asn	Leu	Ala	Arg	Tyr
1170					1175					1180					
Ile	Arg	Glu	Leu	Gln	Ala	Tyr	Pro	Tyr	Gly	Cys	Leu	Glu	Gln	Thr	Thr
1185					1190					1195					1200
Ser	Gly	Leu	Phe	Pro	Ser	Leu	Tyr	Thr	Asn	Ala	Ala	Gln	Leu	Lys	Ala
				1205					1210					1215	
Leu	Gly	Ile	Lys	Gly	Asp	Thr	Asp	Asp	Lys	Arg	Arg	Ala	Ala	Ile	Asp
			1220					1225				1230			
Ile	Gly	Ile	Ser	Arg	Leu	Leu	Gln	Met	Gln	Arg	Asp	Asp	Gly	Gly	Phe
		1235					1240					1245			
Ala	Leu	Trp	Asp	Lys	Asn	Gly	Pro	Glu	Glu	Tyr	Trp	Leu	Thr	Ala	Tyr
1250					1255					1260					
Val	Thr	Asp	Phe	Leu	Val	Arg	Ala	Gly	Glu	Gln	Gly	Tyr	Ser	Val	Pro
1265					1270					1275					1280
Ala	Glu	Ala	Val	Asn	Asn	Ala	Asn	Ser	Arg	Leu	Leu	Arg	Tyr	Leu	Gln
				1285					1290					1295	
Asp	Pro	Gly	Met	Met	Ser	Ile	Arg	Tyr	Ser	Asp	Asp	Thr	Gln	Ala	Ser
			1300					1305					1310		
Lys	Phe	Ala	Val	Gln	Ala	Tyr	Ala	Ser	Leu	Val	Leu	Ala	Arg	Gln	Gln
			1315				1320					1325			

Lys Ala Pro Leu Gly Ala Leu Arg Glu Ile Trp Glu Arg His Ala Gln
 1330 1335 1340
 Ala Ala Ser Gly Leu Pro Leu Met Gln Leu Gly Met Ala Leu Lys Leu
 1345 1350 1355 1360
 Met Gly Asp Ala Pro Arg Ser Gln Gln Ala Leu Asp Leu Ala Leu Lys
 1365 1370 1375
 Thr Pro Arg Asn Asp Ser Arg Asn Trp Met Ala Asp Tyr Gly Ser Gln
 1380 1385 1390
 Leu Arg Asp Asn Ala Leu Met Leu Ser Leu Leu Glu Glu Tyr Lys Leu
 1395 1400 1405
 Leu Pro Asp Ala Gln Asn Arg Leu Leu Asn Ala Leu Ser Glu Asp Ala
 1410 1415 1420
 Phe Ser Gln Arg Trp Leu Ser Thr Gln Glu Ser Asn Ala Leu Phe Leu
 1425 1430 1435 1440
 Ala Gly Arg Ser Leu Gln Thr Leu Ser Gly Ala Trp Gln Ala Thr Thr
 1445 1450 1455
 Ser Leu Ser Glu Gln Thr Gln Ser Ser Asp Lys Ala Gln Val Glu Asn
 1460 1465 1470
 Leu Asn Gly Asp Gln Ile Gly Ala Leu Lys Met Thr Asn Thr Gly Thr
 1475 1480 1485
 Thr Pro Leu Trp Val Arg Leu Asp Thr Thr Gly Tyr Pro Glu Tyr Ala
 1490 1495 1500
 Pro Gln Pro Ser Ser Asn Val Leu Gln Ile Glu Arg His Ile Leu Ala
 1505 1510 1515 1520
 Thr Asp Gly Ser Ser Lys Ser Leu Ser Ser Leu Lys Ser Gly Glu Leu
 1525 1530 1535
 Val Leu Val Trp Leu Glu Val Lys Ala Ser Gln Asn Val Pro Asp Ala
 1540 1545 1550
 Leu Val Val Asp Leu Leu Pro Ala Gly Leu Glu Leu Glu Asn Gln Asn
 1555 1560 1565
 Leu Ala Ser Ser Ser Ala Ser Leu Gln Asp Ser Gly Ser Glu Val Gln
 1570 1575 1580
 Asn Leu Leu Asn Gln Met Gln Gln Ser Asp Ile Gln His Met Glu Phe
 1585 1590 1595 1600
 Arg Asp Asp Arg Phe Val Ala Ala Val Pro Val Asn Glu Gly Gln Pro
 1605 1610 1615
 Val Thr Leu Val Tyr Leu Ala Arg Ala Val Thr Pro Gly Thr Tyr Gln
 1620 1625 1630
 Val Pro Val Pro Met Val Glu Ser Met Tyr Val Pro Gln Trp Arg Ala
 1635 1640 1645
 Thr Gly Ala Ala Ser Gly Pro Leu Ile Val Val Pro
 1650 1655 1660

<210> 9337

<211> 179

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (179)

<400> 9337

Ile Ile Cys Pro Ser Glu Arg Asp Pro Met Gln Leu Arg Lys Leu Leu
 1 5 10 15
 Leu Pro Gly Leu Leu Ser Val Thr Leu Leu Ser Gly Cys Ser Leu Phe
 20 25 30
 Ser Gly Glu Glu Asp Val Val Lys Met Ser Pro Leu Pro Thr Val Glu
 35 40 45
 Asn Gln Phe Thr Pro Ser Thr Ala Trp Asp Thr Ser Val Gly Asp Gly
 50 55 60

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Ile Gly Asp Phe Tyr Ser Asn Leu His Pro Ala Phe Ala Asp Gly Val
65      70      75      80
Val Tyr Ala Ala Asp Arg Lys Gly Thr Val Lys Ala Leu Asn Ala Asp
      85      90      95
Asp Gly Lys Glu Val Trp Ser Ile Asn Leu Ala Glu Lys Asp Gly Trp
      100      105      110
Phe Ser Arg Lys Pro Ala Leu Phe Tyr Gly Gly Leu Thr Val Thr Gly
      115      120      125
Gly His Val Tyr Val Gly Ser Glu Lys Ala Gln Val Tyr Ala Leu Asn
      130      135      140
Ala Ser Val Gly Ser Val Ala Trp Gln Thr Thr Val Ala Gly Glu Ser
      145      150      155      160
Leu Ser Arg Pro Val Phe Thr Thr Gly Asn Glu His Arg Arg Leu His
      165      170      175
Leu His Xaa

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<210> 9338

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 9338

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Thr Val Arg Ala Gly Gly Asp Val Thr Met Ser Val Ile Ser Ser Pro
1      5      10      15
Val Ser Lys Pro Arg Arg Trp Leu His Leu Trp Pro Leu Ala Leu Phe
      20      25      30
Leu Leu Leu Ala Val Gly Gly Ala Leu Trp Leu Trp Gln Ala Trp Pro
      35      40      45
Gln Val Met Val Lys Ser Val Leu Trp Gln Arg Glu Val Asn Gln Gln
      50      55      60
Met Ser Val Leu Leu Lys Ala Val Ala Glu Asn Pro Thr Lys Ala Gly
      65      70      75      80
Gly Ala Leu Leu Ala Phe Ser Phe Ile Tyr Gly Val Leu His Ala Leu
      85      90      95
Gly Pro Gly His Gly Lys Ile Val Ile Thr Thr Trp Leu Ala Thr His
      100      105      110
Pro Ser Lys Leu Lys Ser Ser Ile Gly Leu Thr Leu Ala Ser Ser Leu
      115      120      125
Leu Gln Gly Gly Val Ala Ile Ala Leu Val Val Val Leu Ser Leu
      130      135      140
Leu Gln Leu Pro Ala Arg Gln Leu His Met Ser Ser Phe Trp Leu Glu
      145      150      155      160
Lys Gly Ser Tyr Ala Leu Val Gly Val Leu Gly Leu Ile Leu Cys Trp
      165      170      175
Arg Ala Leu Lys Lys Leu Arg Ala Leu Leu Gln Lys Pro Lys Phe Lys
      180      185      190
Ala Phe Thr Pro His His Val His His Glu Asn Cys Gly Cys Gly His
      195      200      205
Gln His Leu Pro Thr Gln Glu Gln Leu Gln Asn Gly Asp Asp Trp Arg
      210      215      220
Ala Arg Leu Met Ile Val Leu Ser Met Gly Met Arg Pro Cys Ser Gly
      225      230      235      240
Ala Ile Met Val Leu Leu Phe Ser Lys Val Thr Gly Val Phe Gly Trp
      245      250      255
Gly Met Leu Ser Ala Leu Ala Met Ala Ala Gly Thr Ser Leu Thr Ile
      260      265      270
Ser Ser Leu Ala Leu Leu Val His Ser Phe Arg Gln Leu Ala Val Lys
      275      280      285
Leu Ser Gly Asn Lys Thr Pro Val Leu Trp Arg Gln Val Gly Trp Thr
      290      295      300

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Thr Leu Ala Leu Ala Gly Gly Val Ile Leu Leu Val Ala Ala Val Thr
 305 310 315 320
 Met Trp Met Ser Ala Leu Pro Val Gly Arg Gly Leu Arg Pro Phe
 325 330 335

<210> 9339

<211> 179

<212> PRT

<213> *Enterobacter cloacae*

<400> 9339

Gln Ala Thr Pro Glu Ile Val Met Asp Tyr Phe Thr Leu Phe Gly Leu
 1 5 10 15
 Pro Ala Gln Tyr Pro Ile Asp Leu Gln Ala Leu Thr Val Arg Phe Gln
 20 25 30
 Asp Leu Gln Arg Gln Tyr His Pro Asp Lys Phe Ala Ser Gly Thr Gln
 35 40 45
 Ala Glu Gln Leu Ala Ala Val Ser His Ser Ala Thr Ile Asn Gln Ala
 50 55 60
 Trp Gln Thr Leu Arg His Pro Leu Ala Arg Ala Glu Tyr Leu Leu Ser
 65 70 75 80
 Leu His Gly Phe Asp Leu Ala Ser Glu Gln His Thr Val Arg Asp Ala
 85 90 95
 Ala Phe Leu Met Glu Gln Leu Glu Leu Arg Glu Glu Leu Asp Glu Ile
 100 105 110
 Glu Gln Ala Lys Asp Glu Ala Arg Leu Glu Ser Phe Ile Thr Arg Val
 115 120 125
 Lys Gly Met Phe Asp Thr Arg His Gln Gln Met Val Glu Gln Leu Asn
 130 135 140
 Asn Glu Thr Trp Asp Val Ala Ala Asp Thr Val Arg Lys Leu Arg Phe
 145 150 155 160
 Leu Asp Lys Leu Arg Ser Ser Ala Glu Gln Leu Glu Glu Lys Leu Leu
 165 170 175
 Asp Phe

<210> 9340

<211> 121

<212> PRT

<213> *Enterobacter cloacae*

<400> 9340

Lys Ala Ser Pro Trp Thr Arg Phe Asn Met Pro Lys Ile Val Ile Leu
 1 5 10 15
 Pro His Ala Asp Leu Cys Pro Asp Gly Ala Val Leu Glu Ala Lys Thr
 20 25 30
 Gly Glu Thr Ile Leu Asp Val Ala Leu Arg Ala Gly Ile Glu Val Glu
 35 40 45
 His Ala Cys Glu Lys Ser Cys Ala Cys Thr Thr Cys His Cys Ile Val
 50 55 60
 Arg Glu Gly Phe Asp Ser Leu Ala Glu Ser Thr Glu Asp Glu Asp Asp
 65 70 75 80
 Met Leu Asp Lys Ala Trp Gly Leu Glu Pro Asp Ser Arg Leu Ser Cys
 85 90 95
 Gln Ala Ala Val Thr Asp Glu Asp Leu Val Val Glu Phe Pro Arg Tyr
 100 105 110
 Thr Ile Asn His Ala Arg Glu His
 115 120

<210> 9341

<211> 781

<212> FRT

<213> *Enterobacter cloacae*

<400> 9341

Ser Leu Phe Arg Lys Met Arg Ile Ala Arg Leu Ile Arg Ser Arg Trp
 1 5 10 15
 Leu Trp Leu Ala Gly Ala Leu Leu Val Ser Gly Gly Leu Ile Val Val
 20 25 30
 Ala Asp Arg Val Trp Pro Leu Pro Leu Lys Glu Val Asn Pro Ala Arg
 35 40 45
 Val Val Val Asp Glu Gln Gly Val Pro Leu Trp Arg Phe Ala Asp Ser
 50 55 60
 Glu Gly Ile Trp Arg Tyr Pro Val Thr Ile Lys Glu Val Ser Pro Arg
 65 70 75 80
 Tyr Leu Glu Ala Leu Ile Gln Tyr Glu Asp Arg Trp Phe Trp Asp His
 85 90 95
 Pro Gly Val Asn Pro Leu Ser Val Leu Arg Ala Ala Trp Gln Asp Leu
 100 105 110
 Thr Ser Gly Arg Val Val Ser Gly Gly Ser Thr Leu Thr Met Gln Val
 115 120 125
 Ala Arg Leu Leu Asp Pro His Pro Arg Thr Phe Gly Gly Lys Ile Arg
 130 135 140
 Gln Leu Trp Arg Ala Met Gln Leu Glu Trp His Leu Ser Lys Arg Glu
 145 150 155 160
 Ile Leu Thr Leu Tyr Leu Asn Arg Ala Pro Phe Gly Gly Thr Leu Gln
 165 170 175
 Gly Val Gly Ala Ala Ser Trp Thr Tyr Leu Gly Lys Pro Pro Ser Gln
 180 185 190
 Leu Ser Tyr Ser Asp Ala Ala Leu Leu Ala Val Leu Pro Gln Ala Pro
 195 200 205
 Ser Arg Leu Arg Pro Asp Arg Trp Pro Glu Arg Ala Glu Ala Ala Arg
 210 215 220
 Asn Lys Val Leu Asp Arg Met Leu Thr Gln Gly Val Trp Ser Glu Lys
 225 230 235 240
 Gln Val Lys Glu Ser Arg Glu Glu Pro Val Trp Leu Ala Pro Arg Gln
 245 250 255
 Met Pro Gln Leu Ala Pro Leu Phe Ser Arg Met Met Leu Ser Lys Ser
 260 265 270
 Arg Asp Thr Lys Ile Val Thr Thr Leu Asp Ala Ala Leu Gln Arg Gln
 275 280 285
 Leu Glu Glu Leu Ala Met Asn Trp Lys Ser Arg Leu Pro Ala Arg Ser
 290 295 300
 Ser Leu Ala Met Ile Val Val Asp His Thr Ser Met Lys Val Arg Gly
 305 310 315 320
 Trp Val Gly Ser Val Asp Ile Asn Asp Asp Ser Arg Phe Ser His Val
 325 330 335
 Asp Met Val Asn Ala Ile Arg Ser Pro Gly Ser Val Leu Lys Pro Phe
 340 345 350
 Ile Tyr Gly Met Ala Leu Asp Asp Gly Leu Ile His Pro Ala Ser Leu
 355 360 365
 Leu Gln Asp Val Pro Arg Lys Thr Gly Asp Tyr Arg Pro Gly Asn Phe
 370 375 380
 Asp Ser Gly Phe His Gly Pro Val Ser Met Ser Glu Ala Leu Val Arg
 385 390 395 400
 Ser Leu Asn Leu Pro Ala Val Gln Val Leu Glu Ala Tyr Gly Pro Lys
 405 410 415
 Arg Phe Ala Gly Met Leu Ser Asn Ala Gly Leu Pro Leu Ile Leu Pro
 420 425 430
 Ala Gly Ala Gln Pro Asn Leu Ser Leu Ile Leu Gly Gly Ala Gly Ala
 435 440 445
 Arg Leu Ala Asp Ile Ala Ala Ala Tyr Ser Ala Phe Ala Arg Gln Gly

450 455 460
 Lys Ala Gly Arg Leu Arg Leu Gln Pro Gly Asp Pro Leu Ile Glu Arg
 465 470 475 480
 Pro Leu Leu Ser Gln Gly Ala Ala Trp Ile Ile Arg Arg Ile Leu Ala
 485 490 495
 Asn Glu Ala Gln Pro Leu Pro Asp Ser Ala Leu Pro Gln Val Ala Pro
 500 505 510
 Leu Ala Trp Lys Thr Gly Thr Ser Tyr Gly Tyr Arg Asp Ala Trp Ala
 515 520 525
 Ile Gly Leu Asn Ala Arg Tyr Val Ile Gly Ile Trp Thr Gly Arg Pro
 530 535 540
 Asp Gly Thr Pro Val Ala Gly Gln Phe Gly Phe Ala Ser Ala Val Pro
 545 550 555 560
 Leu Leu Asn Gln Val Asn Asn Met Leu Gln Ser Arg Ser Met Val Asp
 565 570 575
 Glu Ala Arg Leu Pro Arg Asp Pro Arg Pro Ala Ser Val Gly Arg Gly
 580 585 590
 Val Ile Cys Trp Pro Gly Gly Gln Ser Leu Pro Glu Gly Ser Glu Asn
 595 600 605
 Cys Arg Arg Arg Leu Ser Thr Trp Leu Leu Glu Gly Ser Glu Pro Pro
 610 615 620
 Thr Leu Leu Leu Pro Glu Gln Glu Gly Ile Arg Gly Ile Arg Phe Pro
 625 630 635 640
 Val Trp Leu Asp Lys Glu Gly Lys Arg Val Ala Ala Asp Cys Pro Asp
 645 650 655
 Ala Thr Glu Lys Val Leu Asp Val Trp Pro Leu Pro Leu Glu Pro Trp
 660 665 670
 Leu Pro Ala Ala Glu Lys Arg Ala Ala Arg Leu Pro Ala Arg Ser Ala
 675 680 685
 Ile Cys Pro Pro Leu Asp Asn His Asn Ala Ala Pro Leu Met Leu Ser
 690 695 700
 Gly Val Arg Glu Gly Ala Val Ile Lys Arg Leu Pro Gly Glu Lys Asn
 705 710 715 720
 Ile Thr Leu Asn Val Ser Thr Ser Gly Gly Glu Gly Gln Arg Trp Trp
 725 730 735
 Phe Leu Asn Gly Glu Pro Leu Asp Gly His Gln Lys Asn Tyr Ser Leu
 740 745 750
 Gln Leu Tyr Leu Pro Gly Lys Tyr Gln Leu Ile Val Leu Asp Glu Thr
 755 760 765
 Gly Gln Thr Ala Thr Val Asn Phe Glu Leu Asp Arg
 770 775 780

<210> 9342

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 9342

Ser Met Ser Gln Phe Lys His Tyr Ala Pro Val Ser Asp Lys Gln Leu
 1 5 10 15
 Gly Phe Tyr Ile Asp Ser Ser Arg Cys Ser Gly Cys Lys Ala Cys Gln
 20 25 30
 Val Ala Cys Lys Asp Lys Asn Asn Leu Glu Val Gly Arg Arg Phe Arg
 35 40 45
 Arg Val Tyr Glu Val Asn Gly Gly Asn Phe Ile Pro Thr Gly Gln Gly
 50 55 60
 Gly Val Ser Asn Asn Val Phe Ala Tyr Thr Leu Ser Ile Ser Cys Asn
 65 70 75 80
 His Cys Ala Asp Pro Ile Cys Thr Lys Asn Cys Pro Thr Thr Ala Met
 85 90 95
 His Lys Arg Pro Gly Asp Gly Ile Val Arg Val Asp Thr Asp Lys Cys

[illegible]

<210> 9343

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 9343

Ala	Asp	Ala	Ala	5	Leu	Cys	Phe	Leu	Gln	Tyr	Trp	Leu	Met	Gly	Gly	Leu
1	Thr	Phe	Ala	Pro	Ala	Met	Asp	Val	Thr	His	Ala	Cys	Val	Arg	Arg	Arg
				20					25					30		
Phe	Arg	His	Ser	Ser	Cys	Leu	Ala	Cys	Ala	Asp	Val	Cys	Pro	Val	Gln	
		35					40					45				
Ala	Phe	Ser	Phe	Thr	Asp	Ser	Gly	Val	Ser	Val	Asp	Asp	Ser	Arg	Cys	
		50				55					60					
Ile	Glu	Cys	Gly	Asp	Cys	Leu	Phe	Val	Cys	Pro	Ala	Gly	Ala	Ile	Thr	
65					70					75				80		
Gly	Ile	Thr	Pro	Arg	Lys	Arg	Phe	Leu	Ser	Gly	Asp	Thr	Leu	Val	Gly	
				85					90				95			
Pro	Phe	Thr	Asp	Arg	Ala	Pro	Gly	Val	Asn	Glu	Leu	Leu	Leu	Trp	His	
			100					105				110				
Ala	Gln	Tyr	His	Val	Arg	Phe	Ile	Ser	Ile	Asp	Ala	Glu	Gln	Asn	Pro	
		115					120					125				
Asp	Trp	Leu	Leu	Ala	Ile	Ala	Arg	Leu	Asn	Leu	Ala	Leu	Arg	Arg	Arg	
		130				135					140					
Gly	Glu	Ala	Ala	Trp	Ala	Phe	Lys	His	Ile	Pro	Val	Asn	Glu	Val	Asn	
145					150					155				160		
Thr	Ala	Arg	Arg	Ala	Leu	Met	His	Val	Pro	Arg	Glu	Asp	Val	Arg	Val	
				165					170				175			
Cys	Ser	Val	Val	Pro	Gly	Gln	Arg	Asp	Leu	Arg	Arg	Ala	Phe	Ser	Ala	
				180				185					190			
Phe	Ser	Glu	Ala	Glu	Ile	Thr	Leu	Asp	Thr	Glu	Ser	Cys	Val	Leu	Cys	
		195					200					205				
Gly	Ala	Cys	Trp	Arg	Ser	Cys	Thr	Glu	Asn	Ala	Ile	Arg	Phe	Gln	Asn	
		210				215					220					
Thr	Glu	Leu	Val	Val	Glu	Thr	Gly	Arg	Cys	Thr	Gly	Cys	Gly	Gly	Cys	
225					230					235				240		
Val	Ala	Val	Cys	Gln	His	Ala	Ala	Ile	Asn	Val	Thr	Gln	Thr	Glu	Gly	
				245					250				255			
Thr	Ala	Lys	Ser	Val	Thr	Ile	Pro	Ala	Tyr	Glu	Ala	Val	Cys	Leu	Thr	
			260					265				270				
Cys	His	Arg	His	Phe	Trp	Ser	Phe	Thr	Ser	Asp	Glu	Lys	Gln	Cys	Pro	
		275					280					285				
Leu	Cys	Phe	His	His	Gln	His	Gly	Met	Arg	Asn	Thr	Ser	Cys	Cys		
		290				295					300					

<210> 9344
 <211> 390
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9344

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Cys Arg Thr Ile Ser Ser Thr Val Thr Asp Gly Gln Cys Gly Arg Phe
1          5          10          15
Tyr Met His Asn Gln Ala Pro Ile Gln Arg Arg Lys Ser Lys Arg Ile
          20          25          30
Tyr Val Gly Asn Val Pro Ile Gly Asp Gly Ala Pro Ile Ala Val Gln
          35          40          45
Ser Met Thr Asn Thr Arg Thr Thr Asp Val Glu Ala Thr Val Asn Gln
          50          55          60
Ile Lys Ala Leu Glu Arg Val Gly Ala Asp Ile Val Arg Val Ser Val
65          70          75          80
Pro Thr Met Asp Ala Ala Glu Ala Phe Lys Leu Ile Lys Gln Gln Val
          85          90          95
Ser Val Pro Leu Val Ala Asp Ile His Phe Asp Tyr Arg Ile Ala Leu
          100          105          110
Lys Val Ala Glu Tyr Gly Val Asp Cys Leu Arg Ile Asn Pro Gly Asn
          115          120          125
Ile Gly Asn Glu Glu Arg Ile Arg Met Val Val Asp Cys Ala Arg Asp
          130          135          140
Lys Asn Ile Pro Ile Arg Ile Gly Val Asn Ala Gly Ser Leu Glu Lys
145          150          155          160
Asp Leu Gln Glu Lys Tyr Gly Glu Pro Thr Pro Gln Ala Leu Leu Glu
          165          170          175
Ser Ala Met Arg His Val Asp His Leu Asp Arg Leu Asn Phe Asp Gln
          180          185          190
Phe Lys Val Ser Val Lys Ala Ser Asp Val Phe Leu Ala Val Glu Ser
          195          200          205
Tyr Arg Leu Leu Ala Lys Gln Ile Asp Gln Pro Leu His Leu Gly Ile
210          215          220
Thr Glu Ala Gly Gly Leu Arg Ser Gly Ser Val Lys Ser Ala Ile Gly
225          230          235
Leu Gly Leu Leu Leu Ser Glu Gly Ile Gly Asp Thr Leu Arg Val Ser
          240          245          250          255
Leu Ala Ala Asp Pro Val Glu Glu Ile Lys Val Gly Phe Asp Ile Leu
          260          265          270
Lys Ser Leu Arg Ile Arg Ala Arg Gly Ile Asn Phe Ile Ala Cys Pro
          275          280          285          290
Thr Cys Ser Arg Gln Glu Phe Asp Val Ile Gly Thr Val Asn Ala Leu
          295          300
Glu Gln Arg Leu Glu Asp Ile Ile Thr Pro Met Asp Val Ser Ile Ile
305          310          315          320
Gly Cys Val Val Asn Gly Pro Gly Glu Ala Leu Val Ser Thr Leu Gly
          325          330          335
Val Thr Gly Gly Asn Lys Lys Ser Gly Leu Tyr Glu Asp Gly Val Arg
          340          345          350
Lys Asp Arg Leu Asp Asn Ser Asp Met Ile Asp Gln Leu Glu Ala Arg
          355          360          365
Ile Arg Ala Lys Ala Thr Met Met Asp Glu Ala Gln Arg Ile Ser Val
          370          375          380
Gln Gln Val Glu Lys
385          390

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<210> 9345
 <211> 441
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9345

Leu Asn Pro Phe Phe Gly Phe Phe Phe Val Tyr Arg Lys Arg Ile Asn
 1 5 10 15
 Val Ala Lys Asn Ile Gln Ala Ile Arg Gly Met Asn Asp Tyr Leu Pro
 20 25 30
 Gly Glu Thr Ala Ile Trp Gln Arg Ile Glu Gly Thr Leu Lys Gln Val
 35 40 45
 Leu Gly Ser Tyr Gly Tyr Ser Glu Ile Arg Leu Pro Ile Val Glu Gln
 50 55 60
 Thr Pro Leu Phe Lys Arg Ala Ile Gly Glu Val Thr Asp Val Val Glu
 65 70 75 80
 Lys Glu Met Tyr Thr Phe Glu Asp Arg Asn Gly Asp Ser Leu Thr Leu
 85 90 95
 Arg Pro Glu Gly Thr Ala Gly Cys Val Arg Ala Gly Ile Glu His Gly
 100 105 110
 Leu Leu Tyr Asn Gln Glu Gln Arg Leu Trp Tyr Ile Gly Pro Met Phe
 115 120 125
 Arg His Glu Arg Pro Gln Lys Gly Arg Tyr Arg Gln Phe Asn Gln Leu
 130 135 140
 Gly Val Glu Val Phe Gly Leu Gln Gly Pro Asp Ile Asp Ala Glu Leu
 145 150 155 160
 Ile Met Leu Thr Ala Arg Trp Trp Arg Ala Leu Gly Ile Ser Glu His
 165 170 175
 Val Ser Leu Glu Leu Asn Ser Ile Gly Ser Leu Glu Ala Arg Ala Asn
 180 185 190
 Tyr Arg Asp Ala Leu Val Ala Phe Leu Glu Gln His Lys Glu Lys Leu
 195 200 205
 Asp Glu Asp Cys Lys Arg Arg Met Tyr Ser Asn Pro Leu Arg Val Leu
 210 215 220
 Asp Ser Lys Asn Pro Asp Val Gln Ala Leu Leu Asn Asp Ala Pro Ala
 225 230 235 240
 Leu Gly Asp Tyr Leu Asp Glu Asp Ser Arg Glu His Phe Ala Gly Leu
 245 250 255
 Cys Lys Leu Leu Glu Ala Ala Gly Ile Ala Tyr Thr Val Asn Gln Arg
 260 265 270
 Leu Val Arg Gly Leu Asp Tyr Tyr Asn Arg Thr Val Phe Glu Trp Val
 275 280 285
 Thr Thr Ser Leu Gly Ser Gln Gly Thr Val Cys Ala Gly Gly Arg Tyr
 290 295 300
 Asp Gly Leu Val Glu Gln Leu Gly Gly Arg Ala Ala Pro Ala Val Gly
 305 310 315 320
 Phe Ala Met Gly Leu Glu Arg Leu Val Leu Leu Val Gln Ala Val Asn
 325 330 335
 Pro Glu Phe Lys Ala Asp Pro Val Val Asp Ile Tyr Leu Val Ala Ser
 340 345 350
 Gly Ala Asp Thr Gln Ser Ala Ala Met Gln Leu Ala Glu Arg Val Arg
 355 360 365
 Asp Ala Leu Pro Asp Val Lys Leu Met Thr Asn His Gly Gly Gly Asn
 370 375 380
 Phe Lys Lys Gln Phe Ala Arg Ala Asp Lys Trp Gly Ala Ser Ile Ala
 385 390 395 400
 Leu Val Leu Gly Glu Ser Glu Val Ala Asn Gly Glu Val Val Val Lys
 405 410 415
 Asp Leu Arg Ser Gly Glu Gln Thr Thr Val Thr Gln Asp Gly Val Ala
 420 425 430
 Ala His Leu Arg Thr Leu Leu Gly
 435 440

<210> 9346

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 9346

```

Arg Glu Glu Gln Met Gln Ile Val Lys Gln Ser Ala Val Ala Leu Phe
1      5      10
Leu Ala Val Phe Thr Phe Ala Ala Gly Ala His Pro His Ser Phe Ile
20      25      30
Ser Leu Lys Thr Glu Leu Val Thr Asp Gly Thr Gln Leu Ser Gly Leu
35      40      45
Lys Met His Trp Thr Met Asp Glu Ile Thr Ser Ala Asp Leu Leu Tyr
50      55      60
Asp Ala Gly Asn Ala Lys Pro Gly Asp Glu Ile Trp Lys Lys Leu Ala
65      70      75
Ala Glu Val Met Ala Asn Val Leu Gly Gln His Tyr Phe Thr Glu Phe
85      90      95
Trp His Asn Gly Gln Lys Val Lys Phe Leu Asn Arg Pro Thr Glu Tyr
100     105     110
Gly Met Thr Arg Glu Gly His Gln Ala Val Leu Thr Phe Val Leu Pro
115     120     125
Leu Ala His Pro Gln Pro Leu Pro Gly Gln Thr Tyr Arg Phe Ser Thr
130     135     140
Phe Asp Pro Thr Tyr Tyr Val Asp Met Arg Tyr Asp Lys Asp Ser Asp
145     150     155
Val Arg Leu Pro Asp Ala Leu Gln Lys Ser Cys Lys Ile Gly Val His
165     170     175
Thr Pro Lys Pro Ser Glu Glu Thr Leu Asn Phe Ala Ile Ser Leu Asp
180     185     190
Lys Ala Asp Ala Pro Pro Glu Asp Met Glu Leu Gly Lys Gln Phe Ala
195     200     205
Gln Glu Val Thr Leu Gln Cys Gln
210     215

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<210> 9347

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 9347

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Gln Arg Asp Arg Ile Met Ser Leu Val Tyr Asp Asn Met Pro Glu Tyr
1      5      10
Ser Ser Asp Thr Glu Ser Arg His Leu Lys Ile Met Leu Gln Asn Ile
20      25      30
Arg Ile Val Leu Val Glu Thr Ser His Thr Gly Asn Met Gly Ser Val
35      40      45
Ala Arg Ala Met Lys Thr Met Gly Leu Thr Asn Leu Trp Leu Val Asn
50      55      60
Pro Leu Val Lys Pro Asp Ser Gln Ala Ile Ala Leu Ala Ala Gly Ala
65      70      75
Ser Asp Val Ile Gly Asn Ala Gln Ile Val Asp Thr Leu Asp Glu Ala
85      90      95
Leu Ala Gly Cys Ser Leu Val Val Gly Thr Ser Ala Arg Ser Arg Thr
100     105     110
Leu Pro Trp Pro Met Leu Asp Pro Arg Glu Cys Gly Leu Lys Ser Ile
115     120     125
Ser Glu Ala Glu Gln Ala Pro Val Ala Leu Val Phe Gly Arg Glu Arg
130     135     140
Val Gly Leu Thr Asn Glu Glu Leu Gln Lys Cys His Tyr His Val Ala
145     150     155
Ile Ala Ala Asn Pro Glu Tyr Ser Ser Leu Asn Leu Ala Met Ala Val
165     170     175

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Gln Val Ile Ala Tyr Glu Val Arg Met Ala Trp Leu Ala Thr Gln Glu
 180 185 190
 Lys Pro Val Glu Pro Lys Glu Glu Thr Ala Tyr Pro Leu Val Asp Asp
 195 200 205
 Leu Glu Arg Phe Tyr Gly His Leu Glu Gln Thr Leu Leu Ser Thr Gly
 210 215 220
 Phe Ile Arg Glu Gly His Pro Gly Gln Val Met Asn Lys Leu Arg Arg
 225 230 235 240
 Met Phe Thr Arg Ala Arg Pro Glu Ser Gln Glu Leu Asn Ile Leu Arg
 245 250 255
 Gly Ile Leu Ala Ser Ile Glu Gln Lys Asn Lys Ala
 260 265

<210> 9348

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 9348

Asp Met Arg Leu Thr Ser Lys Gly Arg Tyr Ala Val Thr Ala Met Leu
 1 5 10 15
 Asp Val Ala Leu Asn Ser Glu Ala Gly Pro Val Pro Leu Ala Asp Ile
 20 25 30
 Ser Glu Arg Gln Gly Ile Ser Leu Ser Tyr Leu Glu Gln Leu Phe Ser
 35 40 45
 Arg Leu Arg Lys Asn Gly Leu Val Ser Ser Val Arg Gly Pro Gly Gly
 50 55 60
 Gly Tyr Leu Leu Gly Lys Asp Ala Gly Ser Ile Ala Val Gly Glu Val
 65 70 75 80
 Ile Ser Ala Val Asp Glu Ser Val Asp Ala Thr Arg Cys Gln Gly Lys
 85 90 95
 Gly Gly Cys Gln Gly Gly Asp Lys Cys Leu Thr His Ala Leu Trp Arg
 100 105 110
 Asp Leu Ser Asp Arg Leu Thr Gly Phe Leu Asn Asn Ile Thr Leu Gly
 115 120 125
 Glu Leu Val Asn Asn Gln Glu Val Leu Asp Val Ser Gly Arg Gln His
 130 135 140
 Ser Gln Asp Ser Gln Arg Ser Thr Arg Thr Gln Asp Ala Ile Asp Val
 145 150 155 160
 Lys Leu Arg Ala
 165

<210> 9349

<211> 440

<212> PRT

<213> Enterobacter cloacae

<400> 9349

Val Phe Arg Ile Arg Pro Gly Trp Ser His Pro Ala Tyr Ser Val Val
 1 5 10 15
 His Pro Ala Gly Cys Leu Ile Pro Cys Ile Glu Ala Met Tyr Gly Val
 20 25 30
 Tyr Arg Ala Met Lys Leu Pro Ile Tyr Leu Asp Tyr Ser Ala Thr Thr
 35 40 45
 Pro Val Asp Pro Arg Val Ala Glu Lys Met Met Gln Cys Leu Thr Leu
 50 55 60
 Asp Gly Asn Phe Gly Asn Pro Ala Ser Arg Ser His Arg Phe Gly Trp
 65 70 75 80
 His Ala Glu Glu Ala Val Asp Ile Ala Arg Asn Gln Ile Ala Asp Leu
 85 90 95
 Val Gly Ala Asp Pro Arg Glu Ile Val Phe Thr Ser Gly Ala Thr Glu


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100                      105                      110
Ser Asp Asn Leu Ala Ile Lys Gly Ala Ala Asn Phe Tyr Gln Lys Lys
115                      120                      125
Gly Lys His Ile Ile Thr Ser Lys Thr Glu His Lys Ala Val Leu Asp
130                      135                      140
Thr Cys Arg Gln Leu Glu Arg Glu Gly Phe Glu Val Thr Tyr Leu Ala
145                      150                      155
Pro Gln Ser Asn Gly Ile Ile Asp Leu Lys Glu Leu Glu Ala Ala Met
165                      170                      175
Arg Asp Asp Thr Ile Leu Val Ser Ile Met His Val Asn Asn Glu Ile
180                      185                      190
Gly Val Val Gln Asp Ile Ala Thr Ile Gly Glu Met Cys Arg Ala Arg
195                      200                      205
Gly Ile Ile Tyr His Val Asp Ala Thr Gln Ser Val Gly Lys Leu Pro
210                      215                      220
Ile Asp Leu Ser Gln Leu Lys Val Asp Leu Met Ser Phe Ser Gly His
225                      230                      235
Lys Ile Tyr Gly Pro Lys Gly Ile Gly Ala Leu Tyr Val Arg Arg Lys
245                      250                      255
Pro Arg Ile Arg Ile Glu Ala Gln Met His Gly Gly Gly His Glu Arg
260                      265                      270
Gly Met Arg Ser Gly Thr Leu Pro Val His Gln Ile Val Gly Met Gly
275                      280                      285
Glu Ala Tyr Arg Ile Ala Lys Glu Glu Met Glu Thr Glu Met Ala Arg
290                      295                      300
Leu Arg Thr Leu Arg Asn Arg Leu Trp Asp Gly Val Lys Asp Met Glu
305                      310                      315
Glu Val Tyr Leu Asn Gly Asp Leu Glu Gln Gly Ala Pro Asn Ile Leu
325                      330                      335
Asn Val Ser Phe Asn Tyr Val Glu Gly Glu Ser Leu Ile Met Ala Leu
340                      345                      350
Lys Asp Leu Ala Val Ser Ser Gly Ser Ala Cys Thr Ser Ala Ser Leu
355                      360                      365
Glu Pro Ser Tyr Val Leu Arg Ala Leu Gly Met Thr Asp Glu Leu Ala
370                      375                      380
His Ser Ser Ile Arg Phe Ser Leu Gly Arg Phe Thr Thr Glu Glu Glu
385                      390                      395
Ile Asp Tyr Thr Ile Lys Leu Val Arg Asn Ser Ile Gly Arg Leu Arg
405                      410                      415
Asp Leu Ser Pro Leu Trp Glu Met Phe Lys Gln Gly Val Asp Leu Asn
420                      425                      430
Ser Ile Glu Trp Ser His His
435                      440

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<210> 9350

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 9350

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Ser Val His Lys Glu Asn Ser Ile Met Ala Tyr Ser Glu Lys Val Ile
1                      5                      10                      15
Asp His Tyr Glu Asn Pro Arg Asn Val Gly Ser Phe Asp Asn Ser Asp
20                      25                      30
Glu Ser Val Gly Ser Gly Met Val Gly Ala Pro Ala Cys Gly Asp Val
35                      40                      45
Met Lys Leu Gln Ile Lys Val Asn Asn Glu Gly Ile Ile Glu Asp Ala
50                      55                      60
Arg Phe Lys Thr Tyr Gly Cys Gly Ser Ala Ile Ala Ser Ser Ser Leu
65                      70                      75                      80
Val Thr Glu Trp Val Lys Gly Lys Ser Leu Asp Glu Ala Gln Ala Ile

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85 90 95
 Lys Asn Thr Asp Ile Ala Glu Glu Leu Glu Leu Pro Pro Val Lys Ile
 100 105 110
 His Cys Ser Ile Leu Ala Glu Asp Ala Ile Lys Ala Ala Ile Ala Asp
 115 120 125
 Tyr Lys Ser Lys Arg Glu Ala Lys
 130 135

<210> 9351

<211> 88

<212> PRT

<213> *Enterobacter cloacae*

<400> 9351

Pro Met Lys Ile Trp Ser Trp Ser Ser His Ala Thr Pro Ser Thr Thr
 1 5 10 15
 His Ala Ser Thr Asn Met Gly Leu Lys Trp Thr Asp Ser Arg Glu Ile
 20 25 30
 Gly Glu Ala Leu Tyr Asp Ala Asn Pro Asp Leu Asp Pro Lys Thr Val
 35 40 45
 Arg Phe Thr Asp Met His Gln Trp Ile Cys Asp Leu Glu Asp Phe Asp
 50 55 60
 Asp Asp Pro Asn Ala Ser Asn Glu Lys Ile Leu Glu Ala Ile Leu Leu
 65 70 75 80
 Val Trp Leu Asp Glu Ala Glu
 85

<210> 9352

<211> 436

<212> PRT

<213> *Enterobacter cloacae*

<400> 9352

Leu Leu Ile Arg Ile Asn Lys Met Thr Glu Ala Met Lys Ile Thr Leu
 1 5 10 15
 Ser Asn Gln Pro Ala Asp Ala Arg Trp Gly Glu Lys Ala Thr Tyr Ser
 20 25 30
 Ile Asn Asn Asp Gly Ile Thr Leu His Leu Thr Gly Asn Asp Asp Leu
 35 40 45
 Gly Leu Ile Gln Arg Ala Ala Arg Lys Ile Asp Gly Leu Gly Ile Lys
 50 55 60
 His Val Ser Leu Glu Gly Glu Gly Trp Asp Thr Asp Arg Ser Trp Ala
 65 70 75 80
 Phe Trp Ala Gly Tyr Lys Gly Pro Lys Gly Thr Arg Lys Ile Glu Trp
 85 90 95
 Ala Asn Leu Asp Glu Ala Gly Gln Lys Glu Leu Glu Ser Arg Leu Asn
 100 105 110
 Ile Ile Asp Trp Val Arg Asp Thr Ile Asn Ala Pro Ala Glu Glu Leu
 115 120 125
 Gly Pro Glu Gln Leu Ala Gln Arg Ala Val Asp Leu Leu Cys Gly Val
 130 135 140
 Ala Gly Glu Lys Met Ser Tyr Arg Ile Thr Lys Gly Glu Asp Leu Arg
 145 150 155 160
 Glu Gln Asn Tyr Met Gly Ile His Thr Val Gly Arg Gly Ser Glu Arg
 165 170 175
 Pro Pro Val Leu Leu Ala Leu Asp Tyr Asn Pro Thr Gly Asp Lys Glu
 180 185 190
 Ala Pro Val Phe Ala Cys Leu Val Gly Lys Gly Ile Thr Phe Asp Thr
 195 200 205
 Gly Gly Tyr Ser Leu Lys Gln Ser Ala Phe Met Asp Ser Met Lys Ser
 210 215 220

Asp Met Gly Gly Ala Ala Thr Ile Thr Gly Ala Leu Ala Phe Ala Ile
 225 230 235 240
 Thr Arg Gly Leu Asn Lys Arg Val Lys Leu Tyr Leu Cys Cys Ala Asp
 245 250 255
 Asn Met Val Ser Gly Asn Ala Phe Lys Leu Gly Asp Ile Ile Arg Tyr
 260 265 270
 Arg Asn Gly Lys Asn Val Glu Val Met Asn Thr Asp Ala Glu Gly Arg
 275 280 285
 Leu Val Leu Ala Asp Gly Leu Ile Asp Ala Ser Ala Gln Lys Pro Glu
 290 295 300
 Leu Ile Ile Asp Met Ala Thr Leu Thr Gly Ala Ala Lys Thr Ala Leu
 305 310 315 320
 Gly Asn Asp Tyr His Ala Leu Phe Ser Phe Asp Asp Lys Leu Ala Ala
 325 330 335
 Arg Leu Leu Ala Ser Ala Ala Ala Glu Asn Glu Pro Phe Trp Arg Leu
 340 345 350
 Pro Leu Ala Glu Phe His Arg Ser Gln Leu Pro Ser Asn Phe Ala Glu
 355 360 365
 Leu Asn Asn Thr Ala Ser Ala Ala Tyr Pro Ala Gly Ala Ser Thr Ala
 370 375 380
 Ala Gly Phe Leu Ser His Phe Val Glu Asn Tyr His Glu Gly Trp Leu
 385 390 395 400
 His Ile Asp Cys Ser Ala Thr Tyr Arg Lys Ala Ala Val Glu Gln Trp
 405 410 415
 Ser Ala Gly Ala Thr Gly Leu Gly Val Arg Thr Val Ala Asn Leu Leu
 420 425 430
 Thr Ala Glu
 435

<210> 9353

<211> 268

<212> PRT

<213> *Enterobacter cloacae*

<400> 9353

Gly Gly Asn Ser Thr Ser Gly Ile Thr Met Ser Glu Thr Lys Asn Glu
 1 5 10 15
 Leu Glu Thr Leu Leu Glu Gln Ala Ala Thr Glu Pro Ala His Arg Pro
 20 25 30
 Ala Phe Phe Arg Thr Leu Leu Glu Ser Thr Val Trp Val Pro Gly Thr
 35 40 45
 Ala Ala Glu Gly Glu Gln Val Val Glu Asp Ser Ala Leu Asp Leu Leu
 50 55 60
 His Trp Glu Lys Asp Asp Gly Thr Ser Val Ile Pro Phe Phe Thr Ser
 65 70 75 80
 Leu Glu Ala Leu Gln Glu Ala Val Glu Asp Glu Gln Ala Phe Val Val
 85 90 95
 Met Pro Val Arg Thr Leu Phe Glu Met Thr Leu Gly Gln Thr Leu Phe
 100 105 110
 Leu Asn Ala Lys Leu Pro Thr Gly Lys Glu Phe Thr Pro Arg Glu Ile
 115 120 125
 Ser His Leu Ile Gly Asp Glu Gly Asn Pro Leu Ser Thr Gln Glu Val
 130 135 140
 Leu Glu Gly Gly Glu Thr Leu Leu Ser Glu Val Ala Glu Pro Pro
 145 150 155 160
 Ala Gln Met Ile Asp Ser Leu Thr Thr Leu Phe Lys Thr Ile Lys Pro
 165 170 175
 Val Lys Arg Ala Phe Leu Cys Ser Ile Lys Glu Ser Ala Asp Glu Lys
 180 185 190
 Pro Val Leu Leu Ile Gly Ile Glu Ala Asp Gly Asp Val Asp Glu Ile
 195 200 205

Ile Gln Ala Ala Gly Ser Val Ala Thr Asp Thr Leu Pro Gly Asp Glu
 210 215 220
 Pro Ile Asp Ile Cys Gln Val Lys Lys Gly Glu Lys Gly Ile Ser His
 225 230 235
 Phe Ile Thr Glu His Ile Thr Pro Phe Tyr Glu Arg Arg Trp Gly Gly
 245 250 255
 Phe Leu Arg Asp Leu Lys Thr Asn Arg Ile Ile
 260 265

<210> 9354

<211> 806

<212> PRT

<213> Enterobacter cloacae

<400> 9354

Lys Lys Thr Arg Met Arg Phe Tyr Leu Lys Glu Arg Ala Met Lys Lys
 1 5 10 15
 Asn Lys His Gln Gly Glu Gly Leu Ile Pro Ala Ile Ser Arg Arg His
 20 25 30
 Phe Ile Gln Ala Gly Ser Ala Leu Ala Ala Leu Pro Phe Val Val Lys
 35 40 45
 Thr Gly Lys Val Gln Ala Gln Asp Ala Ala Val Ser Asp Ala Thr Pro
 50 55 60
 Glu Glu Lys Val Val Gln Thr Cys Ser Thr Phe Asp Cys Gly Gly Lys
 65 70 75 80
 Cys Asp Ile Arg Ala His Val Ser Asp Gly Val Val Thr Arg Ile Ser
 85 90 95
 Thr Arg Pro Asp Asn Ala Leu Asp Pro Gln Met Pro Val Met Arg Ala
 100 105 110
 Cys Val Arg Gly Arg Ala Tyr Arg Lys Phe Val Tyr His Pro Asp Arg
 115 120 125
 Leu Lys Tyr Pro Met Lys Arg Val Gly Lys Arg Gly Glu Gly Lys Phe
 130 135 140 145
 Glu Arg Ile Thr Trp Asp Glu Ala Thr Thr Leu Ile Ala Asn Gln Leu
 150 155 160
 Lys Thr Ile Thr Gln Lys Tyr Gly Ala Ala Ser Arg Tyr Val His Val
 165 170 175
 Gly Thr Ala Val Ser Gly Gly Thr Phe Ser Gly Asp Lys Met Val Arg
 180 185 190
 Arg Leu Leu Asn Leu Thr Gly Gly Tyr Leu Glu Ser Tyr His Ser Val
 195 200 205
 Ser Met Gly Asn Thr Ala Ala Ala Thr Pro Tyr Thr Tyr Gly Thr Ala
 210 215 220
 Ala Ser Gly Ser Ser Leu Asp Thr Leu Leu Asp Thr Lys Leu Val Ile
 225 230 235 240
 Leu Trp Gly His Asn Pro Thr Glu Thr Ile Phe Gly His Ser Asn His
 245 250 255
 Phe Tyr Gln Lys Met Lys Gln Asn Gly Thr Arg Phe Ile Val Val Asp
 260 265 270
 Pro Arg Tyr Ser Asp Thr Val Ser Ser Leu Ala Asp Gln Trp Ile Pro
 275 280 285
 Leu Leu Pro Ala Thr Asp Asn Ala Leu Met Asp Ala Met Met Tyr Val
 290 295 300
 Ile Val Thr Glu Asn Leu His Asp Arg Asp Phe Ile Gln Arg Tyr Thr
 305 310 315 320
 Leu Gly Phe Asp Glu Asp Ala Met Pro Glu Gly Val Pro Ala Asn Glu
 325 330 335
 Ser Leu Met Ala Tyr Leu Ser Gly Ala Lys Asp Gly Val Ala Lys Thr
 340 345 350
 Pro Glu Trp Ala Glu Lys Ile Thr His Val Pro Ala Gln Thr Ile Arg
 355 360 365

Gln Leu Ala Arg Asp Tyr Ala Thr Thr Lys Pro Ala Ala Leu Ile Gln
 370 375 380
 Gly Trp Gly Pro Gln Arg His Asn Cys Gly Glu Arg Thr Ala Arg Gly
 385 390 400
 Ser Thr Ile Leu Ala Thr Leu Tnr Gly Asn Val Gly Val Lys Gly Gly
 405 410 415
 Trp Ala Ala Gly Tyr Gly Gly Cys Ala Asn Arg Lys Phe Ala Ala Gly
 420 425 430
 Pro Glu Met Pro Asp Asn Pro Val Lys Ala Lys Ile Ser Val Met Asn
 435 440 445
 Trp Val Gln Ala Ala Asp Asp Ala Ser Lys Val Thr Ala Glu Asp Gly
 450 455 460
 Leu Lys Asp Ala Glu Lys Leu Asp Ser Asn Ile Arg Ile Leu Phe Ser
 465 470 475 480
 Leu Ala Gly Asn Tyr Leu Ala Asn Gln Asn Pro Asp Leu His Gln Ala
 485 490 495
 Thr Arg Val Leu Glu Asp Glu Ser Lys Ile Glu Phe Ile Val Ala Ser
 500 505 510
 Asp Leu Phe Met Thr Pro Ser Ala Arg Tyr Ala Asp Leu Leu Leu Pro
 515 520 525
 Glu Thr Ser Phe Met Glu Arg Trp Asn Ile Gly Glu Thr Trp Gly Thr
 530 535 540
 Ala Ser Tyr Leu Ile Leu Ser Glu Lys Leu Ile Glu Pro Glu Phe Glu
 545 550 555 560
 Arg Arg Ser Asp Tyr Asp Trp Leu Arg Glu Val Ala Ala Lys Leu Gly
 565 570 575
 Val Glu Pro Ala Phe Ser Glu Gly Arg Asp Glu Lys Ala Trp Ile Glu
 580 585 590
 His Ile Trp Glu Gln Thr Arg Leu Ser Met Pro Asp Glu Asn Leu Pro
 595 600 605
 Asp Phe Ala Thr Leu Gln Lys Thr Arg Gln His Leu Phe Lys Ser Ala
 610 615 620
 Pro Tyr Val Ala Phe Glu Asp Asn Ile Arg Asp Pro Gln Asn His Pro
 625 630 635 640
 Phe Pro Thr Pro Ser Gly Lys Ile Glu Ile Phe Ser Lys Arg Leu Tyr
 645 650 655
 Asp Met His His Pro Glu Ile Pro Ala Leu Ser His Tyr Val Pro Ala
 660 665 670
 His Glu Gly Pro Glu Asp Glu Leu Ala Lys Thr Phe Pro Leu Gln Leu
 675 680 685
 Ile Thr Trp Lys Gly Lys Asn Arg Ala Asn Ser Thr Gln Tyr Ala Asn
 690 695 700
 Pro Trp Leu Ile Glu Ala Gln Gln Lys Leu Trp Ile Asn Pro Gln
 705 710 715 720
 Asp Ala Gln Lys Arg Gly Ile Ala Gln Gly Asp Thr Val Arg Ile His
 725 730 735
 Asn Ala Arg Gly Ile Cys Glu Ile Pro Ala Glu Val Thr Pro Arg Ile
 740 745 750
 Ile Pro Gly Val Val Ala Met Gln Ala Gly Ala Trp Trp Gln Pro Asp
 755 760 765
 Glu Gln Gly Ile Asp Lys Gly Gly Cys Ala Asn Val Leu Ser Ser Ala
 770 775 780
 Arg Ile Thr Ala Leu Ala Lys Gly Asn Ser His Gln Thr Met Leu Val
 785 790 795 800
 Glu Val Ala Lys Ala
 805

<210> 9355

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 9355

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Ser Lys Arg Ile Arg Ala Gln Arg Lys Arg Gly Asn Val Met His Glu
1      5      10      15
Leu Pro Leu Leu Ile Phe Thr Leu Phe Leu Gln Gly Ser Val Gly Val
20      25      30
Thr Leu Trp Leu Ala Phe Gly Ser Thr Gln Arg Ser Val Leu Leu Pro
35      40      45
Ala Ala Gly Ala Phe Val Leu Ala Ser Leu Gly Leu Leu Ala Ser Ala
50      55      60
Leu His Met Gly Tyr Pro Leu Asn Ala Leu Asn Ala Leu Arg His Val
65      70      75      80
Ser Ser Ser Trp Leu Ser Arg Gln Ile Ile Phe Ala Ser Leu Tyr Leu
85      90      95
Ala Ala Leu Gly Phe Ala Thr Leu Leu Met Ile Val Lys Lys Pro Gly
100     105     110
Trp Lys Pro Leu Leu Val Val Ser Gly Leu Val Gly Leu Val Asp Val
115     120     125
Phe Cys Met Ala Gln Ile Tyr Met His Ala Ser Val Val Thr Trp Gln
130     135     140
His Val Asn Thr Leu Val Leu Phe Ile Gly Ser Val Gly Ile Ile Gly
145     150     155     160
Ser Ala Cys Met Val Val Gly Thr Arg Ser Gln Ser Thr Val Arg Ala
165     170     175
Ala Val Val Ile Ile Thr Leu Leu Val Leu Val Arg Leu Val Met Gln
180     185     190
Pro Val Trp Leu Ala Asp Ile Thr Ser Met Asp His Thr Val Val Thr
195     200     205
Phe Pro His Ala Pro Leu Gln Met Leu Glu Gln Leu Arg Thr Val His
210     215     220
Leu Leu Ser Trp Cys Val Ser Val Ala Gly Met Leu Cys Phe Ala Ala
225     230     235     240
Gly Gly Leu Lys Ala Ala Arg Ser Pro Ile Leu Leu Gly Gly Ala Leu
245     250     255
Leu Ile Val Gly Glu Leu Met Leu Arg Phe Val Phe Phe Ser Ile Gly
260     265     270

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<210> 9356

<211> 172

<212> PRT

<213> *Enterobacter cloacae*

<400> 9356

```

Ala Met Ala Leu Leu Phe Ile Ile Arg Ala Thr Pro Tyr Ser Gly
1      5      10      15
Met Gln Lys Gln Gln Asn Ile Leu Gln Arg Leu Ser Met Ala Ile Glu
20      25      30
Arg Thr Phe Ser Ile Ile Lys Pro Asn Ala Val Ala Lys Asn Val Ile
35      40      45
Gly Ser Ile Phe Ala Arg Phe Glu Ser Ala Gly Phe Lys Ile Val Gly
50      55      60
Thr Lys Met Leu His Leu Thr Val Glu Gln Ala Arg Gly Phe Tyr Ala
65      70      75      80
Glu His Glu Gly Arg Pro Phe Phe Asp Gly Leu Val Glu Phe Met Thr
85      90      95
Ser Gly Pro Ile Val Val Ser Val Leu Glu Gly Glu Asn Ala Val Gln
100     105     110
Arg His Arg Asp Leu Leu Gly Ala Thr Asn Pro Asp Asn Ala Leu Ala
115     120     125

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Gly Thr Leu Arg Ala Asp Tyr Ala Asp Ser Phe Thr Glu Asn Gly Thr
 130 135 140
 His Gly Ser Asp Ser Val Glu Ser Ala Ala Arg Glu Ile Ala Phe Phe
 145 150 155 160
 Phe Ala Glu Gly Glu Val Cys Pro Arg Thr Arg
 165 170

<210> 9357

<211> 437

<212> PRT

<213> *Enterobacter cloacae*

<400> 9357

Phe Arg Lys Cys Arg Val Gln Thr Trp His Pro Cys Ala Arg Leu Cys
 1 5 10 15
 Thr Met Gln Arg Pro Gly Arg Ala Asp Cys Leu Pro Gly Arg Phe Phe
 20 25 30
 Ser Thr His Gln Gly Pro Gln Arg Val Thr Thr Arg Pro Glu Lys Ile
 35 40 45
 Met Ser Glu Leu Val Asn Thr Ser Glu Val Ala Ile Pro Ala Val Pro
 50 55 60
 Asn Lys Asn Gly Lys Ile Asn Leu Leu Asp Leu Asn Arg Gln Gln Met
 65 70 75 80
 Arg Glu Phe Phe Lys Glu Met Gly Glu Lys Pro Phe Arg Ala Asp Gln
 85 90 95
 Val Met Lys Trp Met Tyr His Tyr Cys Ser Asp Asn Phe Asp Asp Met
 100 105 110
 Thr Asp Ile Asn Lys Val Leu Arg Asn Lys Leu Lys Glu Val Ala Glu
 115 120 125
 Ile Arg Ala Pro Glu Val Val Glu Glu Gln Arg Ser Ser Asp Gly Thr
 130 135 140
 Ile Lys Trp Ala Ile Ala Val Gly Asp Gln Arg Val Glu Thr Val Tyr
 145 150 155 160
 Ile Pro Glu Asp Asp Arg Ala Thr Leu Cys Val Ser Ser Gln Val Gly
 165 170 175
 Cys Ala Leu Glu Cys Lys Phe Cys Ser Thr Ala Gln Gln Gly Phe Asn
 180 185 190
 Arg Asn Leu Arg Val Ser Glu Ile Ile Gly Gln Val Trp Arg Ala Ala
 195 200 205
 Lys Ile Val Gly Ala Ala Lys Val Thr Gly Thr Arg Pro Ile Thr Asn
 210 215 220
 Val Val Met Met Gly Met Gly Glu Pro Leu Leu Asn Leu Thr Asn Val
 225 230 235 240
 Val Pro Ala Met Glu Ile Met Leu Asp Asp Phe Gly Phe Gly Leu Ser
 245 250 255
 Lys Arg Arg Val Thr Leu Ser Thr Ser Gly Val Val Pro Ala Leu Asp
 260 265 270
 Lys Leu Gly Asp Met Ile Asp Val Ala Leu Ala Ile Ser Leu His Ala
 275 280 285
 Pro Asn Asp Ala Ile Arg Asp Glu Ile Val Pro Ile Asn Lys Lys Tyr
 290 295 300
 Asn Ile Glu Thr Phe Leu Ala Gly Val Arg Arg Tyr Leu Glu Lys Ser
 305 310 315 320
 Asn Ala Asn Gln Gly Arg Val Thr Ile Glu Tyr Val Met Leu Asp His
 325 330 335
 Val Asn Asp Gly Thr Glu His Ala His Glu Leu Ala Glu Leu Leu Lys
 340 345 350
 Asp Thr Pro Cys Lys Ile Asn Leu Ile Pro Trp Asn Pro Phe Pro Gly
 355 360 365
 Ala Pro Tyr Gly Arg Ser Ser Asn Ser Arg Ile Asp Arg Phe Ser Lys
 370 375 380

Val Leu Met Glu Tyr Gly Phe Thr Thr Ile Val Arg Lys Thr Arg Gly
 385 390 400
 Asp Asp Ile Asp Ala Ala Cys Gly Gln Leu Ala Gly Asp Val Ile Asp
 405 410 415
 Arg Thr Lys Arg Thr Leu Arg Lys Arg Met Gln Gly Glu Ser Ile Ala
 420 425 430
 Val Lys Thr Val
 435

<210> 9358

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 9358

Arg Met Asn Thr Glu Ala Thr His Asp Gln Asn Ala Ala Leu Ser Thr
 1 5 10 15
 Gly Val Arg Leu Arg Asn Ala Arg Glu Gln Leu Gly Leu Ser Gln Gln
 20 25 30
 Ala Val Ala Glu Arg Leu Cys Leu Lys Val Ser Thr Val Arg Asp Ile
 35 40 45
 Glu Glu Asp Lys Ala Pro Ala Asp Leu Ala Ser Thr Phe Leu Arg Gly
 50 55 60
 Tyr Ile Arg Ser Tyr Ala Lys Leu Val His Ile Pro Glu Asp Glu Leu
 65 70 75 80
 Leu Pro Met Met Glu Lys Gln Ala Pro Val Arg Ala Ala Lys Val Ala
 85 90 95
 Pro Met Gln Ser Phe Ser Leu Gly Lys Arg Arg Lys Lys Arg Asp Gly
 100 105 110
 Trp Leu Met Ser Phe Thr Trp Leu Val Leu Phe Val Val Val Gly Leu
 115 120 125
 Thr Gly Ala Trp Trp Trp Gln Asn His Lys Ala Gln Gln Glu Glu Ile
 130 135 140
 Thr Thr Met Ala Asp Gln Ser Ser Ala Glu Leu Asn Gln Ser Gly Asn
 145 150 155 160
 Asn Gly Ala Gln Ser Val Pro Leu Ser Thr Glu Gly Ala Thr Ser Ser
 165 170 175
 Glu Pro Gln Ser Ala Ala Ser Asn Thr Pro Ala Thr Glu Pro Ala Ala
 180 185 190
 Thr Pro Glu Ala Thr Thr Asn Thr Ala Pro Ala Thr Gln Thr Gln Asp
 195 200 205
 Gln Asn Ala Val Val Ser Pro Ser Gln Ala Asn Val Asp Thr Ala Pro
 210 215 220
 Ala Ala Thr Ala Pro Ala Glu Asn Thr Ala Ala Ser Leu Pro Thr Asp
 225 230 235 240
 Pro Ala Gly Thr Ala Ala Pro Ala Val Asp Pro Asn Ala Leu Val Met
 245 250 255
 Asn Phe Thr Ala Asp Cys Trp Leu Glu Val Thr Asp Ala Thr Gly Lys
 260 265 270
 Lys Leu Phe Ser Gly Leu Gln Arg Lys Asp Gly Thr Leu Asn Leu Thr
 275 280 285
 Gly Gln Ala Pro Tyr Lys Leu Lys Ile Gly Ala Pro Ala Ala Val Gln
 290 295 300
 Ile Gln Tyr Gln Gly Lys Pro Val Asp Leu Ser Arg Phe Ile Arg Thr
 305 310 315 320
 Asn Gln Val Ala Arg Leu Thr Val Asn Ala Glu Gln Ser Ala Ala Gln
 325 330 335

<210> 9359

<211> 226

<212> PRT

<213> *Enterobacter cloacae*

<400> 9359

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Arg Arg Met Ala Leu Arg Arg Thr Cys Ala Leu Tyr Trp Ala Lys Glu
1      5      10      15
Lys Asp Cys Val Glu Ile Tyr Glu Asn Glu His Asp Gln Val Asp Ala
20      25      30
Val Lys Arg Phe Phe Ala Glu Asn Gly Lys Ala Leu Val Val Gly Val
35      40      45
Ile Leu Gly Val Gly Ala Leu Val Gly Trp Arg Tyr Trp Asn Asn His
50      55      60
Gln Ala Asp Ser Ala Arg Gly Ser Ser Leu Asn Tyr Glu Asn Thr Val
65      70      75      80
Ser Ala Ile Arg Ala Asp Gln Pro Gln Thr Leu Thr Ala Ala Glu Lys
85      90      95
Phe Ala Ala Asp Asn Lys Asn Thr Tyr Gly Ala Leu Ala Ala Leu Glu
100     105     110
Val Ala Gln Gln Tyr Val Asp Lys Asn Glu Leu Asp Lys Ala Ala Ala
115     120     125
Gln Leu Ser Gln Gly Leu Ala Ala Ala Ser Asp Asp Asn Leu Lys Ala
130     135     140
Val Ile Asn Leu Arg Leu Ala Arg Ile Gln Val Gln Gln Lys Lys Ala
145     150     155     160
Asp Asp Ala Leu Lys Thr Leu Asp Thr Ile Lys Gly Glu Gly Phe Ala
165     170     175
Ala Ile Val Ala Asp Leu Arg Gly Glu Ala Leu Leu Ser Lys Gly Asp
180     185     190
Lys Ala Gly Ala Arg Lys Ala Trp Gln Ala Gly Val Asp Ser Lys Ala
195     200     205
Ser Pro Ala Leu Ser Glu Met Met Gln Met Lys Ile Asn Asn Leu Ser
210     215     220
Val
225

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<210> 9360

<211> 317

<212> PRT

<213> *Enterobacter cloacae*

<400> 9360

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Ser Gly Glu Lys Ile Gly Ala Cys Ser Arg Val Glu Arg Gly Glu Leu
1      5      10      15
Val Gly Val Arg Lys Asn Thr Asp Asn Pro Phe Leu Arg Lys Arg Met
20      25      30
Glu Ala Thr Met Ser Thr Ser Tyr Phe Val Ala Ala Asp Trp Leu Ile
35      40      45
Glu His Gly Asp Asp Pro Glu Val Gln Ile Ile Asp Ala Arg Met Ala
50      55      60
Pro Pro Gly Gln Glu His Arg Asp Val Pro Ala Glu Tyr Arg Ala Gly
65      70      75      80
His Leu Pro Gly Ala Val Phe Phe Asp Ile Glu Ala Leu Ser Asp His
85      90      95
Thr Ser Ser Leu Pro His Met Leu Pro Arg Pro Glu Ala Phe Ser Val
100     105     110
Ala Met Arg Glu Leu Gly Ile Ser Lys Asp Lys His Leu Ile Val Tyr
115     120     125
Asp Glu Gly Asn Leu Phe Ser Ala Pro Arg Ala Trp Trp Met Leu Lys
130     135     140
Asn Phe Gly Val Glu Lys Val Ser Ile Leu Ala Gly Gly Leu Ala Gly

```

```

145          150          155          160
Trp Lys Arg Asp Glu Leu Pro Leu Gln Gln Gly Asp Val Thr Leu Pro
165
Glu Gly Glu Phe Asp Ala Thr Phe Asp Ala Asn Val Val Lys Arg Leu
180
Thr Asp Val Leu Val Val Ser His Glu Asn Thr Ala Gln Ile Val Asp
195
Ala Arg Pro Ala Pro Arg Phe Asn Ala Glu Ala Asp Glu Pro Arg Pro
210
Gly Leu Lys Arg Gly His Ile Pro Gly Ala Leu Asn Val Pro Trp Gly
225
Asp Leu Val Phe Glu Gly Glu Leu Lys Thr Thr Asp Glu Leu Arg Ala
245
Ile Phe Glu Arg Gln Gly Val Asp Leu His Arg Pro Val Ile Ala Ser
260
Cys Gly Ser Gly Val Thr Ala Cys Val Val Ile Leu Ala Leu Ala Thr
275
Leu Asp Ala Asn Asp Val Thr Leu Tyr Asp Gly Ala Trp Ser Glu Trp
290
Gly Ala Arg Asp Asp Leu Pro Val Glu Pro Ala Lys
305          310          315

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<210> 9361

<211> 451

<212> PRT

<213> Enterobacter cloacae

<400> 9361

```

Lys Ala Cys Arg Cys Ala Phe Gln Arg Pro Ser Phe Ser Tyr Ser Tyr
1      5      10
Gln Thr Phe Thr Leu Asp Thr Arg Gln Met Met Thr Thr Leu Glu Ile
20
Pro Ser Val Leu Ser Ser Ser Gln Arg Arg Cys Gln Val Leu Leu Met
35
Leu Tyr Leu Pro Asp Ala Ala Val Thr Ala Gln Ser Ile Ile Ala Ala
50
Asn Gly Val Asp Asp Val Met Ala Arg Gln Asp Ile Ala Glu Thr Arg
65
Asp Glu Ile Gln Arg Tyr His Arg Leu Asp Ile Val Thr His His Asp
85
Gly Cys Tyr Arg Ile Glu Gly Ser Ala Leu Asn Gln Arg Leu Cys Leu
100
Leu His Trp Leu Arg Arg Ala Leu Arg Leu Cys Pro His Phe Val Ala
115
Gln Gln Phe Thr Pro Ala Leu Lys Thr Ala Leu Lys Gln His Gly Ile
130
Ala Arg Pro Leu Tyr Asp Asp Ala Asn Leu Arg Ala Leu Ile Asn Phe
145
Cys Ala Arg Lys Leu Gln Arg Gln Phe Glu Ser Arg Asp Val Gln Phe
165
Leu Gln Leu Tyr Leu Gln Tyr Cys Leu Ile Gln His His Leu Gly Asn
180
Thr Pro Glu Phe Ser Pro Val Gln Arg Ser Trp Thr Leu Ser Arg Gly
195
Glu Tyr Phe Thr Ala Gln Glu Ile Val Arg His Trp Lys Arg Arg Val
210
Pro Gln Gly Thr His Ser Asp Glu Gln Leu Phe Leu Ala Leu Leu Phe
225
Met Met Leu Arg Thr Pro Asp Pro Val Met Asp Lys His Gln Gln Asp
245
Gln Arg Leu Arg Arg Ala Ile Val Arg Met Ile Ala Arg Phe Arg Ala
255

```

260 265 270
 Gln Thr Gly Met Asn Phe Ser Asp Glu Gln Gly Leu Thr Asp Gln Leu
 275 280 285
 Tyr Ile His Leu Ala Gln Ala Leu Asp Arg Ser Leu Phe Asp Ile Gly
 290 295 300
 Ile Asp Asn Ser Leu Pro Glu Glu Ile His Arg Leu Tyr Pro Arg Leu
 305 310 315 320
 Leu Arg Thr Thr Lys Glu Ala Leu Phe Glu Leu Glu Ala Glu Phe Gly
 325 330 335
 Leu Arg Phe Ser Gly Glu Glu Met Ala Leu Val Ala Val Ile Phe Gly
 340 345 350
 Ala Trp Leu Met Gln Glu Thr Asp Leu His Glu Lys Gln Val Val Leu
 355 360 365
 Leu Thr Gly Glu Asn Lys Ala Cys Glu Glu Leu Ile Glu Gln Gln Leu
 370 375 380
 Arg Glu Leu Thr Leu Leu Pro Leu Asn Ile Arg Tyr Leu Ser Leu Glu
 385 390 395 400
 Ala Phe Lys Lys Glu Gly Ala Pro Arg Glu Ala Ala Leu Val Ile Thr
 405 410 415
 Pro Tyr Pro Thr Ala Leu Pro Leu Phe Ser Pro Pro Leu Ile His Ala
 420 425 430
 Val Glu Thr Leu Asn Thr Gln Gln Gln Glu His Ile Arg Val Met Leu
 435 440 445
 Glu Ser
 450

<210> 9362

<211> 524

<212> PRT

<213> Enterobacter cloacae

<400> 9362

Val Arg Gly Ser Ile Arg Glu Lys Ala Met Lys Arg Ala Val Asn Ala
 1 5 10 15
 Leu Gln Asn Phe Gly Lys Ser Leu Tyr Gly Pro Val Leu Ile Leu Pro
 20 25 30
 Ile Val Gly Leu Phe Ile Ala Phe Gly Asn Val Leu Gly Asn Gly Asn
 35 40 45
 Leu Ala Glu Tyr Met Pro Phe Leu Gly His Pro Leu Ile Gln Ser Val
 50 55 60
 Gly Gln Leu Ile Ala Lys Ser Ala Val Ser Val Leu Val Asn Leu Ala
 65 70 75 80
 Leu Val Phe Ala Val Gly Ile Pro Ile Gly Leu Ala Thr Arg Asp Lys
 85 90 95
 Gly Tyr Ala Ala Leu Ile Gly Leu Val Thr Phe Ile Val Phe Ile Asn
 100 105 110
 Ala Met Asn Val Thr Leu Gln Leu Gln Gly Glu Leu Ala Pro Ala Glu
 115 120 125
 Gln Met Lys Ala Ala Gly Gln Ser Met Val Leu Gly Val Gln Val Leu
 130 135 140
 Glu Met Gly Val Phe Ala Gly Ile Leu Thr Gly Ala Leu Ser Gly Tyr
 145 150 155 160
 Leu Tyr Asn Lys Tyr Ser Gly Val Gln Phe Asn Gly Ala Met Ala Ile
 165 170 175
 Tyr Ser Gly His Cys Phe Val Ala Ile Val Met Leu Pro Val Ser Met
 180 185 190
 Leu Leu Gly Val Ile Met Ser Glu Leu Trp Pro Tyr Ala Gln His Gly
 195 200 205
 Ile Ser Ala Leu Ala Leu Ala Ile Lys Gly Ser Gly Pro Phe Gly Val
 210 215 220
 Ala Ile Tyr Gly Phe Leu Glu Arg Ile Leu Val Pro Thr Gly Leu His

225 230 235 240
 His Leu Val Tyr Thr Pro Phe Leu Tyr Thr Glu Leu Gly Gly Thr Gln
 245 250 255
 Glu Val Cys Gly Thr Ala Tyr Gln Gly Ala Arg Asn Ile Tyr Phe Ala
 260 265 270
 Glu Met Ala Cys Pro Asp Val Lys Gln Leu Ser Ser Thr Val Val Trp
 275 280 285
 Asp Ala Arg Gly Ile Ser Lys Met Phe Gly Leu Pro Ala Ala Ala Leu
 290 295 300
 Ala Met Tyr Met Thr Ala Lys Pro Glu Arg Lys Ala Ile Ala Lys Ala
 305 310 315 320
 Ile Leu Ile Pro Ala Ala Leu Thr Ser Leu Leu Val Gly Val Thr Glu
 325 330 335
 Pro Ile Glu Phe Ser Phe Leu Phe Val Ala Pro Leu Leu Phe Val Val
 340 345 350
 His Ala Val Leu Thr Gly Ile Gly Met Met Leu Phe Ser Leu Phe Gly
 355 360 365
 Val His Ala Ile Gly Ala Asn Gly Ile Ile Asp Phe Ile Leu Tyr Asn
 370 375 380
 Leu Pro Leu Gly Thr Glu Lys Ser Asn Trp Pro Met Tyr Ile Val Val
 385 390 395 400
 Gly Leu Ile Met Phe Ala Leu Tyr Phe Val Val Phe Arg Phe Leu Ile
 405 410 415
 Leu Arg Phe Asn Met Lys Thr Pro Gly Arg Glu Asp Glu Asp Gln Glu
 420 425 430
 Thr Arg Leu Tyr Ser Lys Gln Glu Tyr Gln Ala Lys Gly Asn Asn Asp
 435 440 445
 Gly Leu Gly Glu Ser Ile Val Val Gly Leu Gly Gly Arg Glu Asn Ile
 450 455 460
 Glu Val Val Asp Asn Cys Tyr Thr Arg Leu Arg Val Thr Val Lys Asp
 465 470 475 480
 Val Ala Ile Ile Asp Glu Pro Arg Leu Lys Ala Thr Gly Ala Lys Gly
 485 490 495
 Ile Ile Lys Gln Gly Asn Asn Val Gln Val Val Tyr Gly Leu His Val
 500 505 510
 Lys Lys Met Arg Glu Ala Val Glu Thr Phe Leu
 515 520

<210> 9363

<211> 460

<212> PRT

<213> *Enterobacter cloacae*

<400> 9363

Lys Glu Leu Lys Met Phe Thr Pro Pro Phe Ile Leu Ser Ile Ala Gly
 1 5 10 15
 Gly Gly Ser Thr Tyr Thr Pro Gly Ile Val Lys Ser Leu Met Val Arg
 20 25 30
 Leu His Asp Phe Pro Leu Ala Glu Ile Arg Leu Tyr Asp Ile Asp Glu
 35 40 45
 Ala Arg Gln Asn Thr Ile Ala Pro Val Val Glu Lys Val Ile Arg Asp
 50 55 60
 His Ser Gln Ser Ile Lys Phe Thr Val Thr Ser Asp Pro Glu Val Ala
 65 70 75 80
 Phe Ser Gly Ala His Phe Val Phe Ala Gln Met Arg Val Gly Gln Tyr
 85 90 95
 Lys Met Arg Glu Gln Asp Glu Lys Ile Pro Leu Arg His Gly Val Val
 100 105 110
 Gly Gln Glu Thr Cys Gly Pro Gly Gly Leu Ala Tyr Gly Leu Arg Thr
 115 120 125
 Ile Leu Pro Met Val Glu Leu Ile Asp Leu Val Asp Arg Tyr Ala His

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      130                      135                      140
Glu Lys Ala Trp Ile Val Asn Tyr Ser Asn Pro Ala Ala Ile Val Ala
145                      150                      155                      160
Glu Gly Val Arg Arg Leu Arg Pro Asn Ala Arg Val Leu Asn Ile Cys
      165                      170                      175
Asp Met Pro Val Ala Ala Met Arg Asn Met Gly Ala Ile Leu Gly Val
      180                      185                      190
Asp Arg His Lys Leu Glu Val Asp Tyr Phe Gly Leu Asn His Phe Gly
      195                      200                      205
Trp Phe Thr Arg Val Leu Val Asp Gly Glu Asp Lys Leu Pro Glu Leu
      210                      215                      220
Arg Lys His Ile Ala Lys Phe Gly Leu Leu Thr Glu Asp Ala Ala Lys
      225                      230                      235                      240
Thr Asp Pro Gln His Ser Asp Pro Ser Trp Val Lys Thr Trp Arg Asn
      245                      250                      255
Ile Lys Pro Ile Met Asp Asn Phe Pro Glu Tyr Leu Pro Asn Pro Tyr
      260                      265                      270
Leu Gln Tyr Tyr Leu Met Pro Asn Gln Ile Val Glu His Gln Asn Pro
      275                      280                      285
Asp Tyr Thr Arg Ala Asn Glu Val Met Asn Gly Arg Glu Lys Lys Leu
      290                      295                      300
Phe Ala Ala Ala Glu Glu Tyr Gln Arg Thr Gly Ile Leu Pro Asp Ala
      305                      310                      315                      320
Phe His Val Gly Val His Gly Glu Phe Ile Val Asp Val Ala Cys Ser
      325                      330                      335
Leu Ala Phe Asn Leu Arg Ser Arg His Leu Val Met Val Glu Asn Arg
      340                      345                      350
Gly Ala Ile Thr Asn Leu Pro Tyr Asp Ala Val Val Glu Val Pro Ala
      355                      360                      365
Tyr Ile Thr Ser Glu Gly Pro Glu Pro Val Arg Val Gly Gln Val Pro
      370                      375                      380
Leu Phe His Gln Thr Leu Leu Gln Gln Gln Leu Ala Ser Glu Gln Leu
      385                      390                      395                      400
Leu Val Glu Ala Thr Ile Glu Gly Ser Tyr Glu Lys Ala Leu Gln Ala
      405                      410                      415
Phe Thr Leu Asn Arg Thr Val Pro Thr Met Glu His Ala Lys Ala Ile
      420                      425                      430
Leu Asp Glu Met Ile Glu Ala Asn Arg Asp Tyr Trp Pro Ala Leu Gln
      435                      440                      445
Lys Ala Trp Gln Asp Gly Glu Ala Val Lys Lys
      450                      455                      460

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<210> 9364

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 9364

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Glu Arg Pro Met His Pro Met Leu Thr Ile Ala Val Arg Ala Ala Arg
1                      5                      10                      15
Lys Ala Gly Asn Val Ile Ala Lys His Tyr Glu Thr Pro Asp Ser Val
      20                      25                      30
Glu Thr Ser Gln Lys Gly Ser Asn Asp Phe Val Thr Asn Val Asp Lys
      35                      40                      45
Ala Ala Glu Ala Ile Ile Glu Thr Ile Arg Lys Ser Tyr Pro Gln
      50                      55                      60
His Thr Ile Ile Thr Glu Glu Ser Gly Glu His Glu Gly Thr Asp Gln
      65                      70                      75                      80
Asp Val Gln Trp Val Ile Asp Pro Leu Asp Gly Thr Thr Asn Phe Val
      85                      90                      95
Lys Arg Leu Pro His Phe Ser Val Ser Ile Ala Val Arg Ile Lys Gly

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      100                      105                      110
Arg Thr Glu Val Ala Val Val Tyr Asp Pro Met Arg Asn Glu Leu Phe
      115                      120                      125
Thr Ala Thr Arg Gly Gln Gly Ala Gln Leu Asn Gly Tyr Arg Leu Arg
      130                      135                      140
Cys Ser Asn Ala Arg Asp Leu Asp Gly Thr Ile Leu Ala Thr Gly Phe
145                      150                      155                      160
Pro Phe Lys Ala Lys Gln His Ala Thr Thr Tyr Met Asn Ile Leu Gly
      165                      170                      175
Lys Leu Phe Thr Glu Cys Ala Asp Phe Arg Arg Thr Gly Ser Ala Ala
      180                      185                      190
Leu Asp Leu Ala Tyr Val Ala Thr Gly Arg Val Asp Gly Tyr Phe Glu
      195                      200                      205
Leu Ser Leu Lys Pro Trp Asp Phe Ala Ala Gly Glu Leu Ile Ala Arg
      210                      215                      220
Glu Ala Gly Ala Ile Val Cys Asp Phe Thr Gly Gly His Asn Tyr Met
225                      230                      235                      240
Ser Thr Gly Asn Ile Val Ala Gly Asn Pro Arg Val Val Lys Ala Met
      245                      250                      255
Leu Ala Asn Met Arg Asp Glu Leu Ser Asp Ala Leu Lys Arg
      260                      265                      270

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<210> 9365

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9365

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Asn Cys Ile Thr Phe Ile Arg His Arg Leu Lys Arg Ser Phe Ala Met
1      5      10      15
Asn Ser Leu Arg Tyr Phe Asp Phe Gly Ser Ser Arg Ser Leu Leu
      20      25      30
Leu Ile Ala Arg Ile Ala Ile Val Val Leu Phe Ile Ile Phe Gly Tyr
      35      40      45
Pro Lys Leu Thr Gly Phe Ser Gly Thr Val Gln Tyr Met Thr Ser Leu
      50      55      60
Gly Ala Pro Met Pro Met Leu Ala Ala Ile Ile Ala Val Val Met Glu
65      70      75      80
Val Pro Ala Ala Ile Leu Ile Val Leu Gly Phe Phe Thr Arg Pro Leu
      85      90      95
Ala Val Ile Phe Val Phe Tyr Thr Leu Gly Thr Ala Val Ile Gly His
      100      105      110
His Tyr Trp Asp Met Thr Gly Asp Ala Val Leu Pro Asn Met Ile Asn
      115      120      125
Phe Tyr Lys Asn Val Ser Ile Ala Gly Ala Phe Ile Leu Leu Ala Ile
      130      135      140
Thr Gly Pro Gly Ala Ile Ser Leu Asp Arg Arg
145      150      155

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<210> 9366

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9366

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Thr Gly Glu Ile Met Asp Asn Arg Leu Ala Thr Leu Leu Thr Arg Gly
1      5      10      15
Ser Ser Leu Thr Arg Ala Glu Tyr Arg Val Leu Ala His Leu Thr Glu
      20      25      30
His Pro Leu Leu Val Gly Asn Ile Thr Val Arg Glu Leu Ala Gln Ala
      35      40      45

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Thr Phe Val Ser Thr Ala Thr Ile Met Arg Leu Cys Gln Lys Leu Gly
 50 55 60
 Phe Ser Gly Phe Ser Glu Phe Ile Trp His Cys Lys Gln Leu Leu Ser
 65 70 75 80
 Asp Thr Pro His Ile Thr Val Gln Pro Glu Gln His Ala Glu Met Pro
 85 90 95
 Ala Leu Phe Thr Arg Phe Val Ala Asn Tyr Gln Gln Thr Phe Gln Trp
 100 105 110
 Val Thr Gln Asp Lys Arg Gln Gln Phe Ala Ser Leu Leu Arg Gln Lys
 115 120 125
 Glu Ser Phe Phe Leu Tyr Gly Ala Gly Phe Ser Tyr Leu Phe Ala Glu
 130 135 140
 Tyr Leu Thr Lys Lys Leu Gln Val Leu Gly Lys Thr Ala Phe Ile Ser
 145 150 155 160
 Gly Ala Gly Asp Ser Arg Asn Ile Phe Leu Ser Asn Ala Ala Arg Tyr
 165 170 175
 Gln Val Phe Ile Ala Val Ser Arg Ser Gly Glu Thr Glu Gln Val Leu
 180 185 190
 Asp Lys Ala Arg Ile Ala Lys Asn Val Gly Met Thr Ile Val Ala Phe
 195 200 205
 Thr Arg Ala Ser Ala Asn Thr Leu Ala Gly Met Ala Asp Val His Phe
 210 215 220
 Ala Leu Tyr Asp Glu Ala Val His Phe Ala Ala Glu Ala Ala Gly Val
 225 230 235 240
 Thr Ser Phe Glu Ser Asn Leu Val Leu Leu Met Asp Leu Leu Leu Leu
 245 250 255
 Glu Ala Thr Gly
 260

<210> 9367

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9367

Lys Met Ser Val Ser Thr Ala Arg Cys Lys His Met Ser Asn Gln Arg
 1 5 10 15
 Asn Pro Asp Asp Leu Lys Lys Asn Leu Thr Glu Met Gln Phe Tyr Val
 20 25 30
 Thr Gln Asn His Gly Thr Glu Pro Phe Ser Gly Arg Leu Leu His
 35 40 45
 Asn Lys Arg Glu Gly Val Tyr His Cys Leu Val Cys Asp Ala Pro Leu
 50 55 60
 Phe Asn Ser Gln Thr Lys Tyr Asp Ser Gly Cys Gly Trp Pro Ser Phe
 65 70 75 80
 Tyr Glu Pro Val Ser Asp Asp Ala Ile Arg Tyr Leu Thr Asp Thr Ser
 85 90 95
 His Gly Met Val Arg Thr Glu Ile Arg Cys Gly Asn Cys Asp Ala His
 100 105 110
 Leu Gly His Val Phe Pro Asp Gly Pro Gln Pro Thr Gly Glu Arg Phe
 115 120 125
 Cys Val Asn Ser Ala Ser Met Ser Phe Thr Asp Asp Glu Asn Gly Asp
 130 135 140
 Gln Ile Lys Gly
 145

<210> 9368

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 9368

Pro Met Asp Ala Leu Glu Leu Leu Val Asn Arg Arg Ser Ala Ser Arg
 1 5 10 15
 Leu Ala Glu Pro Ala Pro Val Gly Glu Leu Glu Asn Ile Leu Arg
 20 25 30
 Ala Gly Met Arg Ala Pro Asp His Gly Thr Leu Gln Pro Trp His Phe
 35 40 45
 Phe Ile Ile Glu Gly Glu Gly Arg Gly Arg Phe Ser Gln Leu Leu Glu
 50 55 60
 Gln Gly Ala Val Ala Ala Gly Gln Asp Glu Lys Ala Ile Asp Lys Ala
 65 70 75 80
 Arg Asn Ala Pro Phe Arg Ala Pro Met Ile Ile Ala Val Val Thr Lys
 85 90 95
 Cys Gln Ala Asp His Lys Val Pro Val Trp Glu Gln Glu Met Ser Ala
 100 105 110
 Gly Cys Ala Val Met Ala Met Gln Met Ala Ala Val Ala Gln Gly Phe
 115 120 125
 Asn Gly Ile Trp Arg Thr Gly Pro Leu Thr Glu Ser Ser Val Val Arg
 130 135 140
 Asp Gly Phe Ala Cys Gly Glu His Asp Lys Ile Val Gly Phe Leu Tyr
 145 150 155 160
 Leu Gly Thr Pro Gln Leu Lys Ala Ser Ser Thr Ile Ser Val Pro Asp
 165 170 175
 Thr Thr Pro Phe Val Ser Arg Phe
 180 185

<210> 9369

<211> 642

<212> PRT

<213> *Enterobacter cloacae*

<400> 9369

Leu Arg Ser Val Asn Ser Met Arg Leu Phe Ile Ala Glu Lys Pro Ser
 1 5 10 15
 Leu Ala Arg Ala Ile Ala Asp Val Leu Pro Lys Pro His Arg Lys Gly
 20 25 30
 Asp Gly Phe Ile Glu Cys Gly Asn Gly Gln Val Val Thr Trp Cys Ile
 35 40 45
 Gly His Leu Leu Glu Gln Ala Gln Pro Asp Val Tyr Asp Ser Arg Tyr
 50 55 60
 Ala Arg Trp Asn Leu Asn Asp Leu Pro Ile Val Pro Glu Lys Trp Arg
 65 70 75 80
 Leu Gln Pro Arg Pro Ser Val Thr Lys Gln Leu Asn Val Ile Lys Arg
 85 90 95
 Phe Leu His Glu Ala Thr Glu Val Val His Ala Gly Asp Pro Asp Arg
 100 105 110
 Glu Gly Gln Leu Leu Val Asp Glu Val Leu Asp Tyr Leu Glu Leu Ala
 115 120 125
 Pro Glu Lys Arg Gln Gln Val Gln Arg Cys Leu Ile Asn Asp Leu Asn
 130 135 140
 Pro Gln Ala Val Glu Arg Ala Ile Ser Arg Leu Arg Ala Asn Ser Glu
 145 150 155 160
 Phe Ile Pro Leu Cys Val Ser Ala Leu Ala Arg Ala Arg Ala Asp Trp
 165 170 175
 Leu Tyr Gly Ile Asn Met Thr Arg Ala Tyr Thr Ile Leu Gly Arg Asn
 180 185 190
 Ala Gly Tyr Gln Gly Val Leu Ser Val Gly Arg Val Gln Thr Pro Val
 195 200 205
 Leu Gly Leu Val Val Arg Arg Asp Glu Glu Ile Glu Asn Phe Val Ala
 210 215 220
 Lys Asp Phe Phe Glu Val Lys Ala His Ile Val Thr Pro Lys Asp Glu

225 230 235 240
 Arg Phe Thr Ala Val Trp Gln Pro Ser Asp Ala Cys Glu Ser Tyr Gln
 245 250 255
 Asp Glu Glu Gly Arg Leu Leu His Arg Pro Leu Ala Glu His Val Val
 260 265 270
 Asn Arg Ile Thr Gly Gln Pro Ala Ile Val Thr Ser Tyr Asn Asp Lys
 275 280 285
 Arg Glu Ser Glu Pro Ala Pro Leu Pro Phe Ser Leu Ser Ala Leu Gln
 290 295 300
 Ile Glu Ala Ala Lys Lys Phe Gly Leu Ser Ala Gln Asn Val Leu Asp
 305 310 315 320
 Ile Cys Gln Lys Leu Tyr Glu Thr His Lys Leu Ile Thr Tyr Pro Arg
 325 330 335
 Ser Asp Ser Arg Tyr Leu Pro Glu Glu His Phe Ala Gly Arg His Ser
 340 345 350
 Val Met Asn Ala Ile Gly Val His Ala Pro Asp Leu Leu Pro Gln Pro
 355 360 365
 Ala Val Asn Pro Asp Thr His Asn Arg Cys Trp Asp Asp Lys Lys Val
 370 375 380
 Asp Ala His His Ala Ile Ile Pro Thr Ala Arg Thr Ser Asn Val Asn
 385 390 395 400
 Leu Thr Asp Asn Glu Ala Lys Val Tyr Asn Leu Ile Ala Arg Gln Tyr
 405 410 415
 Leu Met Gln Phe Cys Pro Asp Ala Val Phe Arg Lys Cys Val Ile Glu
 420 425 430
 Leu Asp Ile Ala Lys Gly Lys Phe Ile Ala Lys Ala Arg Phe Leu Ala
 435 440 445
 Glu Ala Gly Trp Arg Tnr Leu Leu Gly Asn Lys Glu Arg Asp Glu Glu
 450 455 460
 Asn Asp Gly Thr Pro Leu Pro Val Val Ala Lys Gly Asp Glu Leu Leu
 465 470 475 480
 Cys Glu Lys Gly Glu Val Val Glu Arg Gln Thr Gln Pro Pro Arg His
 485 490 495
 Phe Thr Asp Ala Thr Leu Leu Ser Ala Met Thr Gly Ile Ala Arg Phe
 500 505 510
 Val Gln Asp Lys Asp Leu Lys Lys Ile Leu Arg Ala Thr Asp Gly Leu
 515 520 525
 Gly Thr Glu Ala Thr Arg Ala Gly Ile Ile Glu Leu Leu Phe Lys Arg
 530 535 540
 Gly Phe Leu Glu Lys Lys Gly Arg Tyr Ile His Ser Thr Glu Pro Gly
 545 550 555 560
 Arg Ala Leu Ile His Ser Leu Pro Glu Leu Ala Ala Arg Pro Asp Met
 565 570 575
 Thr Ala His Trp Glu Ser Val Leu Thr Gln Ile Ser Glu Lys Gln Cys
 580 585 590
 Arg Tyr Gln Asp Phe Met Gln Pro Leu Val Gly Thr Leu Tyr Gln Leu
 595 600 605
 Ile Asp Gln Ala Arg Ser Thr Pro Val Lys Arg Phe Arg Gly Met Val
 610 615 620
 Ala Pro Gly Ala Gly Ala Lys Lys Pro Phe Lys Lys Lys Lys Ser Ala
 625 630 635 640
 Ala

<210> 9370

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 9370

Leu Ile Ala Lys Asn Asp Ile Leu Ser Cys Pro Ser Lys Glu Ser Ser

1 5 10 15
 His Gln Glu Asn Gln Val Lys Glu Ile Ser Ala Trp Val Ala Pro Met
 20 25 30
 Glu Thr Leu Pro Val Ser Leu Ser Pro Ile Ala Ala Met Gln Lys Lys
 35 40 45
 His Phe Gly Ala Val Leu Asn Pro Thr Arg Trp Trp Gly Arg Met Pro
 50 55 60
 Arg Leu Phe Trp Leu Val Ala Leu Phe Val Gly Tyr Leu Glu Arg Arg
 65 70 75 80
 Lys Ala Arg Leu Thr Pro Val Leu Arg Ser Leu Leu Met Thr Arg Val
 85 90 95
 Ser Gln Ile Cys His Cys Ala Phe Cys Ile Asp Ala Asn Ser Leu Arg
 100 105 110
 Leu Ala Glu Arg Ser Gly Ala Leu Asp Lys Val Gln Ala Val Ser Asp
 115 120 125
 Trp Gln Asn Ser Thr Leu Phe Ser Glu Glu Glu Arg Ala Ala Leu Ala
 130 135 140
 Tyr Ala Glu Ala Val Thr Ala Thr Pro Pro Glu Val Asp Glu Asn Ile
 145 150 155 160
 Lys Ser Leu Leu Lys Arg His Phe Thr Glu Thr Ile Thr Glu Met
 165 170 175
 Thr Ala Leu Ile Ala Phe Gln Asn Leu Ser Ala Arg Phe Asn Ala Ala
 180 185 190
 Leu Asp Ile Pro Thr Gln Gly Leu Cys Ala Thr Phe Lys Gly Lys Pro
 195 200 205
 His Ala Gly
 210

<210> 9371

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 9371

Thr Thr Phe Tyr Leu Pro Asp Glu Val Ala Met Ser Leu Ser Val Thr
 1 5 10 15
 Arg Glu Asn Phe Asp Glu Trp Met Met Pro Val Tyr Ala Pro Ala Ala
 20 25 30
 Phe Ile Pro Val Arg Gly Glu Gly Ser Arg Leu Trp Asp Gln Gln Gly
 35 40 45
 Lys Glu Tyr Ile Asp Phe Ala Gly Gly Ile Ala Val Asn Ala Leu Gly
 50 55 60
 His Ala Asn Pro Ala Leu Arg Gln Ala Leu Asn Asp Gln Ala Ala Lys
 65 70 75 80
 Phe Trp His Thr Gly Asn Gly Tyr Thr Asn Glu Pro Ala Leu Arg Leu
 85 90 95
 Ala Lys Lys Leu Ile Asp Ala Thr Phe Ala Glu Lys Val Phe Phe Cys
 100 105 110
 Asn Ser Gly Ala Glu Ala Asn Glu Ala Ala Leu Lys Leu Ala Arg Lys
 115 120 125
 Tyr Ala His Asp Lys Phe Gly Ala His Lys Ser Gly Ile Val Ala Phe
 130 135 140
 Lys Asn Ala Phe His Gly Arg Thr Leu Phe Thr Val Ser Ala Gly Gly
 145 150 155 160
 Gln Pro Ser Tyr Ser Gln Asp Phe Ala Pro Leu Pro Pro Asp Ile Arg
 165 170 175
 His Ala Ala Tyr Asn Asp Leu His Ser Ala Ser Glu Leu Ile Asp Asp
 180 185 190
 Thr Thr Cys Ala Val Ile Val Glu Pro Met Gln Gly Gly Gly Val
 195 200 205
 Met Pro Ala Gln Lys Ala Phe Leu Gln Gly Leu Arg Glu Leu Cys Asp

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      210              215              220
Arg His Asn Ala Val Leu Ile Phe Asp Glu Val Gln Thr Gly Val Gly
225              230              235
Arg Thr Gly Glu Leu Tyr Ala Tyr Met His Tyr Gly Val Thr Pro Asp
      245              250              255
Val Leu Ser Thr Ala Lys Ala Leu Gly Gly Phe Pro Val Gly Ala
      260              265              270
Met Leu Thr Thr Glu Lys Phe Ala Ser Val Met Thr Val Gly Thr His
      275              280              285
Gly Thr Thr Tyr Gly Gly Asn Pro Leu Ala Thr Ala Val Ala Gly Gln
      290              295              300
Val Leu Asp Ile Ile Asn Thr Pro Glu Val Leu Asn Gly Val Lys Gln
      305              310              315
Arg His Gln Trp Phe Val Glu Arg Leu Thr Ala Ile Asn Ser Lys Thr
      325              330              335
Gly Leu Phe Lys Glu Ile Arg Gly Leu Gly Leu Leu Ile Gly Cys Glu
      340              345              350
Leu Ala Pro Glu Phe Ala Gly Lys Ala Lys Leu Ile Ser Gln Glu Ala
      355              360              365
Ala Lys Gln Gly Val Met Val Leu Ile Ala Gly Ala Asn Val Val Arg
      370              375              380
Phe Ala Pro Ala Leu Ile Val Ser Glu Glu Glu Val Arg Thr Gly Leu
      385              390              395
Asp Arg Phe Ala Leu Ala Cys Glu Gln Val Lys Ser Gly Val Ser Ser
      405              410              415

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<210> 9372

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 9372

```

Leu Lys Val Arg Lys Asp Ile Met Arg Lys Leu Thr Ala Leu Phe Val
1              5              10              15
Ala Ser Thr Leu Ala Leu Gly Ala Thr Ser Met Ala Phe Ala Ala Asp
      20              25              30
Thr Ala Thr Thr Thr Ala Ala Pro Thr Glu Gly Lys Met Met Met His
      35              40              45
His Lys Gly Lys Pro Gly Met His His Glu Met Met Met Phe Lys Asp
      50              55              60
Leu Asn Leu Thr Asp Ala Gln Lys Gln Gln Ile Arg Asp Ile Met Lys
      65              70              75              80
Ser Gln Arg Asp Gln Met Lys Arg Pro Pro Leu Glu Glu Arg Arg Ala
      85              90              95
Met His Asp Ile Ile Ala Ser Asp Ser Phe Asp Lys Ala Lys Ala Glu
      100              105              110
Ala Gln Ile Asp Lys Met Ala Glu Gln His Lys Ala Arg Met Leu Ala
      115              120              125
His Met Glu Thr Gln Asn Lys Ile Tyr Asn Ile Leu Thr Pro Glu Gln
      130              135              140
Lys Lys Gln Phe Asn Ala Asn Phe Glu Lys Arg Leu Thr Glu Arg Ala
      145              150              155              160
Ala Pro Glu Gly Lys Met Pro Ala Pro Thr Glu
      165              170

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<210> 9373

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 9373

Pro Asn Lys Arg Glu Val Ile Met Glu Lys Lys His Ile Tyr Leu Phe
 1 5 10 15
 Cys Ser Ala Gly Met Ser Thr Ser Leu Leu Val Ser Lys Met Arg Ala
 20 25 30
 Gln Ala Glu Lys Tyr Glu Val Pro Val Ile Glu Ala Phe Pro Glu
 35 40 45
 Thr Leu Ala Gly Glu Lys Gly Gln Thr Ala Asp Val Ile Leu Leu Gly
 50 55 60
 Pro Gln Ile Ala Tyr Met Leu Pro Glu Ile Gln Arg Leu Leu Pro Asn
 65 70 75 80
 Lys Pro Val Glu Val Ile Asp Ser Val Leu Tyr Gly Lys Ile Asp Gly
 85 90 95
 Leu Gly Val Leu Lys Ala Ala Val Ala Ala Ile Lys Lys Ala Ala Asn
 100 105 110

<210> 9374

<211> 458

<212> PRT

<213> Enterobacter cloacae

<400> 9374

Tyr Ala Lys Gly Asp Ile Met Gln Gln Lys Leu Lys Val Val Thr Ile
 1 5 10 15
 Gly Gly Gly Ser Ser Tyr Thr Pro Glu Leu Leu Glu Gly Phe Leu Lys
 20 25 30
 Arg Tyr His Glu Leu Pro Val Ser Glu Leu Trp Leu Val Asp Val Glu
 35 40 45
 Glu Gly Gln Glu Lys Leu Asn Ile Ile Phe Glu Leu Cys Lys Arg Met
 50 55 60
 Val Glu Lys Ala Gly Val Pro Leu Thr Met His Lys Thr Leu Asp Arg
 65 70 75 80
 Arg Leu Ala Leu Lys Asp Ala Asp Phe Val Thr Thr Gln Leu Arg Val
 85 90 95
 Gly Gln Leu Lys Ala Arg Glu Leu Asp Glu Arg Ile Pro Leu Ser His
 100 105 110
 Gly Tyr Leu Gly Gln Glu Thr Asn Gly Ala Gly Gly Leu Phe Lys Gly
 115 120 125
 Leu Arg Thr Ile Pro Val Ile Phe Asp Ile Ile Lys Asp Val Glu Glu
 130 135 140
 Ile Cys Pro Asn Ala Trp Val Ile Asn Phe Thr Asn Pro Ala Gly Met
 145 150 155 160
 Val Thr Glu Ala Val Tyr Arg His Thr Gly Phe Lys Arg Phe Ile Gly
 165 170 175
 Val Cys Asn Ile Pro Ile Gly Met Lys Met Phe Ile Arg Asp Val Leu
 180 185 190
 Glu Leu Thr Glu His Asp Asp Leu Ser Ile Asp Leu Phe Gly Leu Asn
 195 200 205
 His Met Val Phe Ile Lys Asp Val Ile Val Asn Gly Gln Ser Arg Phe
 210 215 220
 Ala Glu Leu Leu Asp Gly Val Ala Ser Gly Arg Leu Thr Ala Ala Ser
 225 230 235 240
 Val Lys Asn Ile Phe Asp Leu Pro Phe Ser Glu Gly Leu Ile Arg Ser
 245 250 255
 Leu Asn Leu Leu Pro Cys Ser Tyr Leu Leu Tyr Tyr Phe Lys Gln Lys
 260 265 270
 Glu Met Leu Ala Ile Glu Met Gly Glu Tyr Tyr Lys Gly Ala Arg
 275 280 285

Ala Gln Val Val Gln Lys Val Glu Lys Gln Leu Phe Asp Leu Tyr Lys
 290 295 300
 Asp Pro Asn Leu Asn Val Lys Pro Lys Glu Leu Glu Gln Arg Gly Gly
 305 310 315 320
 Ala Tyr Tyr Ser Asp Ala Ala Cys Glu Val Ile Asn Ala Ile Tyr Asn
 325 330 335
 Asp Lys Gln Ala Glu His Tyr Val Asn Val Pro His His Gly His Ile
 340 345 350
 Asp Asn Ile Pro Ala Asp Trp Ala Val Glu Met Thr Cys Ile Leu Gly
 355 360 365
 Arg Glu Gly Ala Lys Pro His Pro Arg Ile Thr His Phe Asp Asp Lys
 370 375 380
 Val Met Gly Leu Ile His Thr Ile Lys Gly Phe Glu Val Ala Ala Ser
 385 390 395 400
 Asn Ala Ala Leu Ser Gly Glu Leu Asn Asp Val Leu Leu Ala Leu Asn
 405 410 415
 Leu Ser Pro Leu Val His Ser Asp Arg Asp Ala Glu Lys Leu Ala Ser
 420 425 430
 Glu Met Ile Leu Ala His Glu Lys Trp Leu Pro Asn Phe Ala Ala Thr
 435 440 445
 Val Glu Lys Leu Lys Leu Thr His Arg
 450 455

<210> 9375

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 9375

Ala Gln Ile Thr Arg Leu Tyr Glu Glu Glu Leu Met Thr Tyr Gln Gln
 1 5 10 15
 Ala Gly Arg Ile Ala Val Leu Lys Arg Val Ala Gly Trp Val Ile Phe
 20 25 30
 Ile Pro Ala Leu Ile Ser Thr Leu Ile Ser Val Leu Lys Phe Met Tyr
 35 40 45
 Asp His Ser Glu Lys Gln Pro Gly Ile Asn Ala Val Met Leu Asp Phe
 50 55 60
 Ala His Val Met Ile Glu Met Met Arg Phe Asn Thr Pro Phe Leu Asn
 65 70 75 80
 Val Phe Trp Phe Asn Ser Pro Thr Pro Asp Phe His His Gln Leu Asn
 85 90 95
 Val Gly Phe Trp Ile Ile Tyr Ala Leu Ile Phe Ile Ala Met Ala Leu
 100 105 110
 Gln Ala Ser Gly Ala Arg Met Ser Arg Gln Thr Arg Phe Leu Arg Glu
 115 120 125
 Gly Phe Glu Asp Gln Leu Ile Leu Glu Lys Ala Lys Gly Pro Asp Gly
 130 135 140
 Met Ser Arg Glu Gln Ile Glu Ser Arg Ile Val Val Pro Arg His Thr
 145 150 155 160
 Ile Phe Val Gln Phe Phe Pro Leu Tyr Ile Leu Pro Val Ile Ile Ile
 165 170 175
 Val Ala Gly Tyr Phe Phe Phe Thr Leu Leu Gly Phe Leu
 180 185 190

<210> 9376

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 9376

Asn Lys Thr Arg Phe Gly Ile Val Leu Ile Gln Lys Met Lys Glu Glu

1 5 10 15
 Asn Ile Ala Met Leu Phe Ala Ala Phe Tyr Asn Leu Leu Pro Phe Tyr
 20 25 30
 Gly Arg Leu Val Ile Asp Pro Gln Glu Ser Phe Arg Asp Arg Asp Gly
 35 40 45
 Leu Phe Leu Cys Cys Thr Asp Ser Leu Asn Lys Met Lys Leu Leu Lys
 50 55 60
 Thr Val Pro Ala Ala Leu Met Leu Ala Gly Gly Val Phe Ala Ser Leu
 65 70 75 80
 Asn Ala Thr Ala Asp Asp Thr Val Phe Thr Val Met Asp Asp Pro Ser
 85 90 95
 Thr Ala Lys Lys Pro Phe Glu Gly Asn Val Asn Ala Gly Tyr Leu Ala
 100 105 110
 Gln Ser Gly Asn Thr Lys Ser Ser Ser Leu Thr Ala Asp Ser Thr Leu
 115 120 125
 Thr Trp Tyr Gly Asn Thr Thr Ala Trp Ser Leu Trp Gly Asn Ala Ser
 130 135 140
 Asn Thr Ser Ala Asn Asp Gln Arg Ser Ser Glu Lys Tyr Ala Val Gly
 145 150 155 160
 Gly Arg Ser Arg Tyr Asn Met Thr Asp Tyr Asp Tyr Leu Phe Gly Gln
 165 170 175
 Ala Ser Trp Leu Thr Asp Arg Tyr Asn Gly Tyr Arg Gln Arg Asp Val
 180 185 190
 Val Thr Ala Gly Tyr Gly Arg Gln Phe Leu Asn Gly Pro Val His Ser
 195 200 205
 Leu Arg Phe Glu Phe Gly Pro Gly Val Arg Tyr Asp Glu Tyr Thr Asn
 210 215 220
 Gly Glu Asp Glu Thr Gln Pro Leu Gly Tyr Ala Ser Gly Thr Tyr Ala
 225 230 235 240
 Trp Gln Met Thr Asp Asn Ala Lys Phe Thr Gln Gly Val Ser Val Phe
 245 250 255
 Gly Ala Glu Asp Thr Thr Leu Asn Ser Glu Ser Ala Leu Asn Val Ala
 260 265 270
 Ile Asn Glu His Phe Gly Leu Lys Val Ala Tyr Asn Val Thr Trp Asn
 275 280 285
 Ser Ser Pro Pro Asp Ser Ala Pro Glu His Thr Asp Arg Arg Thr Thr
 290 295 300
 Ile Ser Leu Gly Tyr Lys Met
 305 310

<210> 9377

<211> 646

<212> PRT

<213> Enterobacter cloacae

<400> 9377

Gly Tyr Lys Met Pro Val Ile Thr Leu Pro Asp Gly Ser Gln Arg His
 1 5 10 15
 Phe Asp His Ala Val Ser Pro Met Asp Val Ala Leu Asp Ile Gly Pro
 20 25 30
 Gly Leu Ala Lys Ala Thr Ile Ala Gly Arg Val Asn Gly Glu Leu Val
 35 40 45
 Asp Ala Ser Asp Leu Ile Glu Ser Asp Ala Thr Leu Ala Ile Ile Thr
 50 55 60
 Ala Lys Asp Glu Glu Gly Leu Glu Ile Ile Arg His Ser Cys Ala His
 65 70 75 80
 Leu Leu Gly His Ala Ile Lys Gln Leu Trp Pro Asn Thr Lys Met Ala
 85 90 95
 Ile Gly Pro Val Ile Asp Asn Gly Phe Tyr Tyr Asp Val Asp Leu Asp
 100 105 110
 His Thr Leu Thr Gln Glu Asp Ile Asp Ala Leu Glu Lys Arg Met His

115	120	125
Glu Leu Ala Glu Thr Asn Tyr Asp Val Ile Lys Lys Lys Val Ser Trp		
130	135	140
His Glu Ala Arg Glu Thr Phe Val Lys Arg Gly Glu Ser Tyr Lys Val		
145	150	155
Ser Ile Leu Asp Glu Asn Ile Ala His Asp Asp Lys Pro Gly Leu Tyr		
165	170	175
His His Gln Glu Tyr Val Asp Met Cys Arg Gly Pro His Val Pro Asn		
180	185	190
Met Arg Phe Cys His His Phe Lys Leu Met Lys Ile Ala Gly Ala Tyr		
195	200	205
Trp Arg Gly Asp Ser Asn Asn Lys Met Leu Gln Arg Ile Tyr Gly Thr		
210	215	220
Ala Trp Ala Asp Lys Lys Ala Leu Asn Ala Tyr Leu Gln Arg Leu Glu		
225	230	235
Glu Ala Ala Lys Arg Asp His Arg Lys Ile Gly Lys Gln Leu Asp Leu		
245	250	255
Tyr His Met Gln Glu Glu Ala Pro Gly Met Val Phe Trp His Asn Asp		
260	265	270
Gly Trp Thr Ile Phe Arg Glu Leu Glu Thr Phe Val Arg Ser Lys Leu		
275	280	285
Lys Glu Tyr Gln Tyr Gln Glu Val Lys Gly Pro Phe Met Met Asp Arg		
290	295	300
Val Leu Trp Glu Lys Thr Gly His Trp Asp Asn Tyr Lys Asp Ala Met		
305	310	315
Phe Thr Thr Ser Ser Glu Asn Arg Glu Tyr Cys Ile Lys Pro Met Asn		
325	330	335
Cys Pro Gly His Val Gln Ile Phe Asn Gln Gly Leu Lys Ser Tyr Arg		
340	345	350
Asp Leu Pro Leu Arg Met Ala Glu Phe Gly Ser Cys His Arg Asn Glu		
355	360	365
Pro Ser Gly Ala Leu His Gly Leu Met Arg Val Arg Gly Phe Thr Gln		
370	375	380
Asp Asp Ala His Ile Phe Cys Thr Glu Asp Gln Val Arg Glu Glu Val		
385	390	395
Asn Ala Cys Ile Arg Met Val Tyr Asp Met Tyr Ser Thr Phe Gly Phe		
405	410	415
Glu Lys Ile Val Val Lys Leu Ser Thr Arg Pro Glu Lys Arg Ile Gly		
420	425	430
Ser Asp Glu Thr Trp Asp Arg Ala Glu Ala Asp Leu Ala Val Ala Leu		
435	440	445
Glu Glu Asn Gly Ile Pro Phe Glu Tyr Gln Leu Gly Glu Gly Ala Phe		
450	455	460
Tyr Gly Pro Lys Ile Glu Phe Thr Leu Tyr Asp Cys Leu Asp Arg Ala		
465	470	475
Trp Gln Cys Gly Thr Val Gln Leu Asp Phe Ser Leu Pro Gln Arg Leu		
485	490	495
Ser Ala Ser Tyr Val Gly Glu Asp Asn Glu Arg Gln Val Pro Val Met		
500	505	510
Ile His Arg Ala Ile Leu Gly Ser Leu Glu Arg Phe Ile Gly Ile Leu		
515	520	525
Thr Glu Glu Phe Ala Gly Phe Phe Pro Thr Trp Leu Ala Pro Val Gln		
530	535	540
Val Val Val Met Asn Ile Thr Asp Ser Gln Ala Asp Tyr Val Lys Glu		
545	550	555
Leu Thr Gln Lys Leu Gln Asn Ala Gly Ile Arg Val Lys Ala Asp Leu		
565	570	575
Arg Asn Glu Lys Ile Gly Phe Lys Ile Arg Glu His Thr Leu Arg Arg		
580	585	590
Val Pro Tyr Met Leu Val Cys Gly Asp Lys Glu Val Glu Ala Gly Lys		
595	600	605

Val Ala Val Arg Thr Arg Arg Gly Lys Asp Leu Gly Ser Leu Asp Val
 610 615 620
 Ser Glu Val Ile Glu Lys Leu Gln Gln Glu Ile Arg Ser Arg Ser Leu
 625 630 635 640
 Gln Gln Leu Glu Glu
 645

<210> 9378

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 9378

Gly Ile Lys Gly Gly Lys Arg Val Gln Thr Ala Arg Pro Asn Arg Ile
 1 5 10 15
 Asn Gly Glu Ile Arg Ala Gln Glu Val Arg Leu Thr Gly Leu Glu Gly
 20 25 30
 Glu Gln Leu Gly Ile Val Ser Leu Arg Glu Ala Ile Glu Lys Ala Glu
 35 40 45
 Glu Ala Gly Val Asp Leu Val Glu Ile Ser Pro Asn Ala Glu Pro Pro
 50 55 60
 Val Cys Arg Ile Met Asp Tyr Gly Lys Phe Leu Tyr Glu Lys Ser Lys
 65 70 75 80
 Ser Ser Lys Glu Gln Lys Lys Lys Gln Lys Val Ile Gln Val Lys Glu
 85 90 95
 Ile Lys Phe Arg His Val Phe Thr Ser Arg
 100 105

<210> 9379

<211> 235

<212> PRT

<213> Enterobacter cloacae

<400> 9379

Leu Pro Phe Arg Ile Phe Pro Pro Ala Leu Thr Pro Arg Trp Ile Ser
 1 5 10 15
 Arg Leu Arg Gly Cys Ala Pro Arg Leu Lys Val Asn His Met Leu Asp
 20 25 30
 Lys His Leu His Pro Arg Leu Lys Pro Gly Leu Asn Gln Leu Ala Ala
 35 40 45
 Ala Leu Asp Lys Pro Phe Ile Thr Pro Asp Gly Leu Thr Leu Ala Gly
 50 55 60
 Phe Ala Ile Gly Val Leu Ala Leu Pro Phe Leu Ala Leu Gly Trp Tyr
 65 70 75 80
 Pro Ala Ala Leu Ile Ala Ile Val Leu Asn Arg Leu Leu Asp Gly Leu
 85 90 95
 Asp Gly Ala Leu Ala Arg Arg Arg Gly Leu Thr Asp Ala Gly Gly Phe
 100 105 110
 Leu Asp Ile Ala Leu Asp Phe Leu Phe Tyr Ala Leu Val Pro Phe Gly
 115 120 125
 Phe Ala Leu Ala Ala Pro Ala Asp Asn Ala Ile Ala Ala Ala Trp Leu
 130 135 140
 Leu Phe Ala Phe Met Gly Thr Gly Ser Ser Phe Leu Ala Phe Ala Ala
 145 150 155 160
 Leu Ala Gly Lys His Asp Ile Asp Asn Pro Gly Tyr Ala His Lys Ser
 165 170 175
 Leu Tyr Tyr Ile Gly Gly Leu Thr Glu Gly Thr Glu Thr Ile Ala Leu
 180 185 190
 Phe Val Leu Cys Ser Leu Phe Pro Ala His Phe Ala Leu Phe Ala Trp
 195 200 205
 Val Phe Gly Ala Leu Cys Trp Leu Thr Thr Thr Thr Arg Ile Trp Ser

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210 215 220
 Gly Tyr Ile Thr Leu Lys Ser Leu Pro Arg
 225 230 235

<210> 9380

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 9380

Gly Glu Asn Ser Met Thr Leu Trp Ile Asn Gly Asp Trp Val Thr Gly
 1 5 10 15
 Glu Gly Asp Ala Arg Thr Lys Thr Asn Pro Val Gly Gln Glu Val Leu
 20 25 30
 Trp Ser Gly Asn Asp Ala Ser Ala Gly Gln Val Glu Gln Ala Cys Gln
 35 40 45
 Ala Ala Arg Arg Ala Phe Pro Ala Trp Ala Lys Arg Pro Phe Ser Glu
 50 55 60
 Arg Gln Ala Leu Val Glu Lys Phe Ala Ala Leu Leu Glu Ala Asn Lys
 65 70 75 80
 Ala Glu Leu Thr Arg Ile Ile Ala Cys Glu Thr Ser Lys Pro Arg Trp
 85 90 95
 Glu Ala Thr Thr Glu Val Thr Ala Met Ile Asn Lys Ile Ala Ile Ser
 100 105 110
 Val Lys Ala Tyr His Thr Arg Thr Gly Glu Gln His Thr Glu Met Pro
 115 120 125
 Asp Gly Ala Ala Thr Leu Arg His Arg Pro His Gly Val Leu Ala Val
 130 135 140
 Phe Gly Pro Tyr Asn Phe Pro Gly His Leu Pro Asn Gly His Ile Val
 145 150 155 160
 Pro Ala Leu Leu Ala Gly Asn Thr Val Ile Phe Lys Pro Ser Glu Leu
 165 170 175
 Thr Pro Leu Thr Gly Glu Ala Val Val Lys Leu Trp Glu Gln Ala Gly
 180 185 190
 Leu Pro Pro Gly Val Leu Asn Leu Val Gln Gly Gly Arg Glu Thr Gly
 195 200 205
 Gln Ala Leu Ser Ala Leu Ser Asp Ile Asp Gly Leu Leu Phe Thr Gly
 210 215 220
 Ser Ala Gly Thr Gly Tyr Gln Leu His Arg Gln Leu Ala Gly Gln Pro
 225 230 235 240
 Glu Lys Ile Leu Ala Leu Glu Met Gly Gly Asn Asn Pro Leu Ile Val
 245 250 255
 Glu Asp Pro Glu Asp Ile Asp Ala Ala Val His Leu Thr Ile Gln Ser
 260 265 270
 Ala Phe Ile Thr Ala Gly Gln Arg Cys Thr Cys Ala Arg Arg Leu Leu
 275 280 285
 Val Lys Arg Gly Ala Gln Gly Asp Ala Phe Leu Lys Arg Leu Val Glu
 290 295 300
 Val Ser Ala Arg Leu Val Pro Ala Lys Trp Asp Ala Glu Pro Gln Pro
 305 310 315 320
 Phe Ile Gly Gly Leu Ile Ser Gly Gln Ala Ala Leu Asn Val Leu Lys
 325 330 335
 Ala Trp Gln Glu His Val Ala Arg Gly Ala Lys Thr Leu Leu Glu Pro
 340 345 350
 Lys Leu Val Gln Pro Gly Thr Ser Leu Leu Thr Pro Gly Ile Ile Asp
 355 360 365
 Met Ser Ala Thr Ser Asn Val Pro Asp Glu Glu Val Phe Gly Pro Leu
 370 375 380
 Leu Cys Val Trp Arg Tyr Asp Asp Phe Glu Ser Ala Ile Glu Met Ala
 385 390 395 400
 Asn Asn Thr Arg Tyr Gly Leu Ser Ser Gly Leu Ile Ser Pro His Arg

405 410 415
 Glu Lys Phe Asp Gln Leu Leu Leu Glu Ala Arg Ala Gly Ile Val Asn
 420 425 430
 Trp Asn Lys Pro Leu Thr Gly Ala Ala Ser Thr Ala Pro Phe Gly Gly
 435 440 445
 Val Gly Ala Ser Gly Asn His Arg Ala Ser Ala Trp Tyr Ala Ala Asp
 450 455 460
 Tyr Cys Ala Trp Pro Met Ala Ser Leu Glu Thr Pro Ala Leu Thr Leu
 465 470 475 480
 Pro Glu Thr Leu Asn Pro Gly Leu Asp Phe Thr Glu Gly Asp Ala His
 485 490 495
 Glu Ser Ala
 500

<210> 9381
 <211> 120
 <212> PRT
 <213> Enterobacter cloacae

<400> 9381
 Thr Arg Gly Arg Asn Met Asn Lys Asn Val Ala Gly Ile Leu Ser Ala
 1 5 10 15
 Ala Ala Val Leu Thr Met Leu Ala Gly Cys Thr Ala Tyr Asp Arg Thr
 20 25 30
 Lys Asp Gln Phe Thr Gln Pro Val Val Lys Asp Val Lys Lys Gly Met
 35 40 45
 Thr Arg Ser Gln Val Ala Ala Ile Ala Gly Lys Pro Ser Ser Glu Val
 50 55 60
 Thr Met Ile His Ala Arg Gly Thr Cys Gln Thr Tyr Ile Leu Gly Gln
 65 70 75 80
 Arg Asp Gly Lys Ala Glu Thr Tyr Phe Val Ala Leu Asp Asp Thr Gly
 85 90 95
 His Val Ile Asn Ser Gly Tyr Gln Thr Cys Ala Glu Tyr Asp Thr Asp
 100 105 110
 Pro Gln Ala Pro Lys Ala Gln
 115 120

<210> 9382
 <211> 97
 <212> PRT
 <213> Enterobacter cloacae

<400> 9382
 Lys Gly Glu Ile Met Asn Ile Asp Asp Met Ile Ala Gly Met Thr Pro
 1 5 10 15
 Glu Val Tyr Gln Arg Leu Val Thr Ala Val Glu Leu Gly Lys Trp Pro
 20 25 30
 Asp Gly Val Ala Leu Thr Pro Glu Gln Lys Glu Asn Ser Leu Gln Leu
 35 40 45
 Val Met Leu Trp Gln Ala Arg His Asn Thr Asp Ala Gln His Met Thr
 50 55 60
 Ile Asp Thr Asn Gly Gln Met Val Met Lys Ser Lys Arg Glu Leu Lys
 65 70 75 80
 Glu Asp Phe Gly Ile Thr Pro Lys Pro Ile Ala Thr Met Lys Met Gln
 85 90 95

<210> 9383
 <211> 352
 <212> PRT

<213> Enterobacter cloacae

<400> 9383

Gln Glu Thr Ser Met Ser Glu Gln Thr Ile Arg Leu Thr Gln Tyr Ser
 1 5 10 15
 His Gly Ala Gly Cys Gly Cys Lys Ile Ser Pro Lys Val Leu Glu Thr
 20 25 30
 Ile Leu His Ser Glu Gln Ala Lys Phe Val Asp Pro Asn Leu Leu Val
 35 40 45
 Gly Asn Glu Thr Arg Asp Asp Ala Ala Val Tyr Asp Leu Gly Asn Gly
 50 55 60
 Thr Ser Ile Ile Ser Thr Thr Asp Phe Phe Met Pro Ile Val Asp Asn
 65 70 75 80
 Pro Phe Asp Phe Gly Arg Ile Ala Ala Thr Asn Ala Ile Ser Asp Ile
 85 90 95
 Phe Ala Met Gly Gly Lys Pro Ile Met Ala Ile Ala Ile Leu Gly Trp
 100 105 110
 Pro Ile Asn Asn Leu Pro Pro Glu Ile Ala Arg Asp Val Ile Glu Gly
 115 120 125
 Gly Arg Phe Ala Cys Gln Gln Ala Gly Ile Ala Leu Ala Gly Gly His
 130 135 140
 Ser Ile Asp Ala Pro Glu Pro Ile Phe Gly Leu Ala Val Thr Gly Val
 145 150 155 160
 Val Pro Thr Glu Arg Val Lys Arg Asn Ser Thr Ala Gln Pro Gly Cys
 165 170 175
 Lys Leu Phe Leu Thr Lys Pro Leu Gly Ile Gly Val Leu Thr Thr Ala
 180 185 190
 Glu Lys Lys Ser Leu Leu Lys Pro Glu His Ile Gly Leu Ala Thr Glu
 195 200 205
 Val Met Cys Gln Met Asn Leu Ala Gly Ala Ala Phe Ala Asn Ile Asp
 210 215 220
 Gly Val Lys Ala Met Thr Asp Val Thr Gly Phe Gly Leu Leu Gly His
 225 230 235 240
 Leu Ser Glu Val Cys Gln Gly Ala Gly Val Gln Ala Gln Val Arg Tyr
 245 250 255
 Gln Asp Val Pro Lys Leu Pro Gly Val Glu Glu Tyr Ile Ala Gln Gly
 260 265 270
 Ala Leu Pro Gly Gly Thr Gln Arg Asn Phe Ala Ser Tyr Gly His Leu
 275 280 285
 Met Gly Glu Met Pro Glu Ala Trp Arg Asn Leu Leu Cys Asp Pro Gln
 290 295 300
 Thr Ser Gly Gly Leu Leu Leu Ala Val Thr Pro Glu Ala Glu Ala Asp
 305 310 315 320
 Val Gln Ala Thr Ala Ala Glu Phe Gly Ile Thr Leu Thr Ala Ile Gly
 325 330 335
 Glu Leu Val Thr Ala Arg Gly Gly Arg Pro Met Ile Glu Ile Arg
 340 345 350

<210> 9384

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9384

Arg Asp Thr Leu Lys Ile Pro Ser Gly Ser Thr Val Ile Asp Ile Asn
 1 5 10 15
 Asp Ala Lys Glu Thr Lys Ser Met Asn Arg Tyr Ala Met Ala Ala Leu
 20 25 30
 Cys Leu Met Val Ser Ala Gly Ala Gln Ala Asp Arg Ile Arg Pro Asp
 35 40 45
 Val Glu Val Asn Val Pro Pro Glu Val Phe Ser Ala Gly Gly Gln Arg

50	55	60	
Ala Gln Pro Cys Asn	Gln Cys Cys Ile Tyr	Gln Asp Gln Asn Tyr Ser	
65	70	75	80
Glu Gly Ala Val Val	Arg Ala Asp Gly Val	Leu Leu Gln Cys Gln Arg	
	85	90	95
Asp Glu Arg Thr	Leu Ser Thr Asn Pro	Leu Val Trp Arg Arg Val Lys	
	100	105	110
Glu			

<210> 9385

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9385

Arg Gly Ala Leu Cys	Pro Cys Ala Asp	Arg Gln Arg Gly	Arg Gly Gln
1	5	10	15
Asn Trp Leu Arg Ser	Phe Cys Ala Gly	Leu Arg Thr Gly	Glu Val Arg
	20	25	30
Gly Val Ile Met Met	Val Ile Arg Pro	Val Ala His Gly	Asp Leu Ala
	35	40	45
Gly Leu Met Gln Leu	Ala Gly Lys Thr	Gly Gly Gly Leu	Thr Ser Leu
	50	55	60
Pro Ala Asp Glu Lys	Thr Leu Ser Ala Arg	Ile Glu Arg Ala	Leu Gln
	65	70	75
Thr Trp Gln Gly Thr	Leu Pro Lys Ser	Glu Gln Gly Tyr	Val Phe Val
	85	90	95
Leu Glu Asp Thr Asp	Thr Gly Thr Val	Ala Gly Ile Cys	Ala Ile Glu
	100	105	110
Val Ala Val Gly Leu	Asn Asp Pro Trp	Tyr Asn Tyr Arg	Val Gly Thr
	115	120	125
Met Val His Ala Ser	Lys Glu Leu Asn	Val Tyr Asn Ala	Leu Pro Thr
	130	135	140
Leu Phe Leu Cys Asn	Asp His Thr Gly	Ala Ser Glu Leu	Cys Thr Leu
	145	150	155
Phe Leu Asp Pro Asp	Trp Arg Lys Glu	Gly Asn Gly Tyr	Leu Leu Ser
	165	170	175
Lys Ser Arg Phe Met	Phe Met Ala Ala	Phe Arg Asp Arg	Phe Asn Glu
	180	185	190
Lys Val Val Ala Glu	Met Arg Gly Val	Ile Asp Glu Thr	Gly Tyr Ser
	195	200	205
Pro Phe Trp Glu Ser	Leu Gly Glu Arg	Phe Phe Ser Met	Glu Phe Ser
	210	215	220
Arg Ala Asp Tyr Leu	Cys Gly Thr Gly	Gln Lys Ala Phe	Ile Ala Glu
	225	230	235
Leu Met Pro Lys His	Pro Ile Tyr Thr	His Phe Leu Thr	Pro Glu Ala
	245	250	255
Gln Ala Val Ile Gly	Glu Val His Pro	Gln Thr Ala Pro	Ala Arg Ala
	260	265	270
Val Leu Glu Lys Glu	Gly Phe Arg Tyr	Arg Asn Tyr Val	Asp Ile Phe
	275	280	285
Asp Gly Gly Pro Thr	Leu Glu Cys Asp	Ile Asp Arg Val	Arg Ala Ile
	290	295	300
Arg Lys Ser Arg Leu	Val Glu Val Ser	Glu Cys Gln Pro	Ala Pro Gly
	305	310	315
Glu Trp Pro Ala Cys	Leu Val Ser Asn	Glu Asn Tyr Thr	Asn Phe Arg
	325	330	335
Ala Met Leu Val Arg	Thr Asn Pro Ser	Cys Glu Arg Leu	Val Leu Thr
	340	345	350
Ala Ala Gln Leu Asp	Ala Leu Lys Cys	Asn Ala Gly Asp	Thr Val Arg

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<210> 9386
<211> 453
<212> PRT
<213> Enterobacter cloacae
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Ile	Arg	Gly	Trp	Ile	Leu	Leu	Arg	Val	Thr	Pro	Met	Lys	Ala	Arg	Glu
1				5					10					15	
Val	Asn	Phe	Asp	Gly	Leu	Val	Gly	Leu	Thr	His	His	Tyr	Ala	Gly	Leu
			20					25					30		
Ser	Phe	Gly	Asn	Glu	Ala	Ser	Thr	Lys	His	Arg	Phe	Gln	Val	Ser	Asn
		35					40					45			
Pro	Lys	Leu	Ala	Ala	Lys	Gln	Gly	Leu	Leu	Lys	Met	Lys	Ala	Leu	Ser
	50					55					60				
Asp	Ala	Gly	Phe	Pro	Gln	Ala	Val	Ile	Pro	Pro	Gln	Glu	Arg	Pro	Asn
65					70					75					80
Val	Ala	Val	Leu	Arg	Gln	Leu	Gly	Phe	Ser	Gly	Thr	Asp	Glu	Gln	Val
				85				90						95	
Val	Glu	Lys	Ala	Gly	Thr	Gln	Thr	Pro	His	Leu	Leu	Ser	Ala	Ala	Ser
			100					105					110		
Ser	Ala	Ser	Ser	Met	Trp	Val	Ala	Asn	Ala	Ala	Thr	Val	Ala	Pro	Ser
		115					120					125			
Ala	Asp	Thr	Leu	Asp	Gly	Lys	Val	His	Leu	Thr	Val	Ala	Asn	Leu	Asn
	130					135					140				
Asn	Lys	Phe	His	Arg	Ala	Ser	Glu	Ala	Glu	Thr	Thr	Gly	Arg	Val	Leu
145					150					155					160
Arg	Ala	Ile	Phe	Asn	His	Asp	Ala	His	Phe	Glu	Val	His	Ser	Ala	Leu
				165					170					175	
Pro	Gln	Val	Ala	Met	Phe	Gly	Asp	Glu	Gly	Ala	Ala	Asn	His	Asn	Arg
			180					185						190	
Leu	Gly	Gly	Asp	Tyr	Gly	Glu	Pro	Gly	Leu	Gln	Leu	Phe	Ile	Tyr	Gly
		195					200					205			
Arg	Glu	Glu	Gly	Gly	His	Ala	Ala	Pro	Val	Arg	Tyr	Pro	Ala	Arg	Gln
	210					215					220				
Thr	Leu	Ala	Ala	Ser	Gln	Ala	Val	Ala	Arg	Leu	Asn	Gln	Val	Asn	Pro
225					230					235					240
Ser	Gln	Val	Ile	Phe	Ala	Gln	Gln	Asn	Pro	Gln	Val	Ile	Asp	Gln	Gly
				245					250					255	
Val	Phe	His	Asn	Asp	Val	Ile	Ala	Val	Ser	Asn	Arg	Gln	Val	Leu	Phe
			260					265					270		
Cys	His	Glu	Gln	Ala	Phe	Ala	His	Gln	Glu	Lys	Leu	Leu	Ala	Thr	Leu
		275					280					285			
Arg	Glu	Arg	Val	Pro	Gly	Phe	Met	Pro	Ile	Gln	Val	Pro	Thr	Gln	Ala
	290					295					300				
Val	Ser	Val	Gln	Asp	Ala	Val	Glu	Thr	Tyr	Leu	Phe	Asn	Ser	Gln	Leu
305					310					315					320
Leu	Ser	Arg	Asp	Asp	Gly	Ser	Met	Met	Leu	Val	Leu	Pro	Gln	Glu	Ser
			325						330					335	
Arg	Asn	His	Gln	Gly	Val	Trp	Arg	Tyr	Leu	Ser	Glu	Leu	Val	Gln	Ala
			340					345					350		
Asp	Asn	Pro	Ile</												

```
<210> 9387
<211> 325
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```
<210> 9388
<211> 236
<212> PRT
<213> Enterobacter cloacae
```

<400> 9388

```

Asp Arg Arg Ala Pro Val Tyr Lys Ser Glu Asn Ala Val Asp Arg Thr
1      5      10      15
Gly Gly Phe Ser Phe Ile Pro Cys Leu Arg Ser Gly Leu Thr Ala Ala
20      25      30
Asp Asn Thr Ser Val Lys Met Pro Trp Arg Thr Val Arg Pro Ser Gly
35      40      45
Val Val Met Glu Phe Phe Asp Ile Arg Lys Met Pro Val Ser Leu Trp
50      55      60
Arg Asn Gly Ala Gly Glu Thr Arg Glu Ile Cys Phe Pro Pro Ala
65      70      75      80
Thr Arg Asp Phe Phe Trp Arg Ala Ser Ile Ala Ser Ile Ala Ser Asn
85      90      95
Gly Glu Phe Ser Ala Phe Pro Gly Val Asp Arg Val Ile Thr Leu Leu
100     105     110
Glu Gly Gly Glu Val Thr Leu Asp Ala Gly Arg Ala Phe Cys His Thr
115     120     125
Leu Lys His His Gln Pro Tyr Arg Phe Ala Gly Asp Leu Ala Val Lys
130     135     140
Ala Val Leu Thr Glu Gly Gln Met Ser Met Asp Phe Asn Ile Met Thr
145     150     155     160
Arg Arg Asp Cys Cys Gln Ala Lys Val Arg Val Ala Thr Arg Thr Phe
165     170     175
Thr Thr Phe Ala Ser Arg Gly Gly Val Val Phe Val Leu Ser Gly Ala
180     185     190
Trp Gln Leu Gly Asp Lys Leu Leu Thr Ala Asp Gln Gly Ala Ser Trp
195     200     205
Glu Ala Gly Ser His Thr Leu Arg Leu Leu Glu Thr Lys Gly Ser Leu
210     215     220
Leu Phe Ser Glu Ile Thr Trp Leu Pro Gly His
225     230     235

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<210> 9389

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 9389

```

Gly Tyr Phe Pro Met Ser Lys Val Ile Ala Ser Leu Glu Lys Val Leu
1      5      10      15
Leu Pro Phe Ala Val Lys Ile Gly Lys Gln Pro His Val Asn Ala Ile
20      25      30
Lys Asn Gly Phe Ile Lys Leu Met Pro Leu Thr Leu Ala Gly Ala Met
35      40      45
Phe Val Leu Ile Asn Asn Val Phe Leu Ser Phe Gly Glu Gly Ser Phe
50      55      60
Phe Tyr Ser Leu Gly Ile Arg Leu Asp Ala Ser Thr Ile Glu Thr Leu
65      70      75      80
Asn Gly Leu Lys Ala Ile Gly Gly Asn Val Tyr Asn Gly Thr Leu Gly
85      90      95
Ile Met Ser Leu Met Ala Pro Phe Phe Ile Gly Met Ala Leu Ala Glu
100     105     110
Glu Arg Lys Val Asp Pro Leu Ala Ala Gly Leu Leu Ser Ile Ala Ala
115     120     125
Phe Met Thr Val Thr Pro Tyr Ser Val Gly Asp Ala Tyr Ala Val Gly
130     135     140
Ala Asn Trp Leu Gly Gly Ala Asn Ile Ile Ser Gly Ile Ile Ile Gly
145     150     155     160
Leu Val Val Ala Glu Met Phe Thr Phe Ile Arg Arg Asn Trp Val
165     170     175

```

Ile Arg Leu Pro Asp Ser Val Pro Ala Ser Val Ser Arg Ser Phe Ser
 180 185 190
 Ala Leu Ile Pro Gly Phe Ile Ile Leu Ser Ile Met Gly Ile Ile Ala
 195 200 205
 Trp Ala Leu Ser His Trp Gly Thr Asn Phe His Gln Ile Ile Met Asp
 210 215 220
 Ser Ile Ser Thr Pro Leu Ala Ser Met Gly Asn Val Val Gly Trp Ala
 225 230 235 240
 Tyr Val Ile Phe Thr Ser Leu Leu Trp Phe Phe Gly Val His Gly Ser
 245 250 255
 Leu Ala Leu Ala Ala Leu Asp Ser Gly Ile Met Thr Pro Trp Ala Leu
 260 265 270
 Glu Asn Val Ala Leu Tyr Gln Gln Tyr Gly Ser Val Asp Ala Ala Leu
 275 280 285
 Ala Ala Gly Lys Thr Phe His Val Trp Ala Lys Pro Met Leu Asp Ser
 290 295 300
 Tyr Ile Phe Leu Gly Gly Thr Gly Ala Thr Leu Gly Leu Ile Ile Ala
 305 310 315 320
 Val Phe Ile Val Ser Arg Arg Ala Asp His Arg Gln Val Ala Lys Leu
 325 330 335
 Ala Leu Pro Ser Gly Ile Phe Gln Ile Asn Glu Pro Ile Leu Phe Gly
 340 345 350
 Leu Pro Ile Ile Met Asn Pro Val Met Phe Ile Pro Phe Ile Leu Val
 355 360 365
 Gln Pro Leu Leu Ala Ala Ile Thr Leu Thr Ala Tyr Tyr Leu Gly Ile
 370 375 380
 Ile Pro Pro Val Thr Asn Ile Ala Pro Trp Thr Met Pro Ala Gly Leu
 385 390 395 400
 Gly Ala Phe Phe Asn Thr Asn Gly Ser Val Ala Ala Phe Leu Leu Ala
 405 410 415
 Ile Phe Asn Leu Gly Ile Ala Thr Leu Leu Tyr Met Pro Phe Val Ala
 420 425 430
 Ile Ala Asn Lys Ala Ala Thr Val Ile Asp Glu Glu Glu Ser Glu Glu
 435 440 445
 Asp Ile Ala Leu Ala Leu Lys Phe
 450 455

<210> 9390

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 9390

Lys Met Leu Asp Leu Glu Ser Ile Val Ala Glu Glu Thr Ala Glu Asn
 1 5 10 15
 Asp Leu Glu Glu Val Val Met Gly Leu Ile Ile Asn Ser Gly Gln Ala
 20 25 30
 Arg Ser Leu Ala Tyr Ala Ala Leu Lys Gln Ala Lys Gln Gly Asp Phe
 35 40 45
 Val Ala Ala Lys Thr Met Met Glu Gln Ser Arg Thr Ala Leu Asn Glu
 50 55 60
 Ala His Leu Val Gln Thr Lys Leu Ile Glu Ser Asp Gln Gly Glu Gly
 65 70 75 80
 Lys Met Lys Val Ser Leu Val Leu Val His Ala Gln Asp His Leu Met
 85 90 95
 Thr Ser Met Leu Ala Arg Glu Leu Val Ala Glu Leu Ile Glu Leu His
 100 105 110
 Glu Lys Met Gln
 115

<210> 9391

<211> 278

<212> PRT

<213> *Enterobacter cloacae*

<400> 9391

Gln Glu Val Ser Thr Met Glu Ile Lys Thr Ala His Glu Gln Gln Leu
 1 5 10 15
 Phe Asn Gly Lys Asn Phe His Val Val Ile Tyr Asn Lys Thr Glu Ser
 20 25 30
 Ala Ser Gly Leu His Gln His Asp Tyr Tyr Glu Phe Thr Ile Val Leu
 35 40 45
 Thr Gly Arg Tyr Tyr Gln Glu Ile Asn Gly Lys Arg Val Leu Leu Glu
 50 55 60
 Arg Gly Asp Phe Val Phe Leu Pro Met Gly Ser Tyr His Gln Ser Phe
 65 70 75 80
 Tyr Glu Phe Gly Ala Thr Arg Ile Leu Asn Val Gly Val Ser Arg Arg
 85 90 95
 Phe Phe Glu Lys His Tyr Leu Pro Leu Val Pro Phe Cys Phe Val Ala
 100 105 110
 Ser Gln Val Tyr Arg Val Lys Asn Glu Phe Met Thr Trp Ile Glu Thr
 115 120 125
 Val Ile Ala Ser Leu Asn Phe Arg Asp Asn Glu Phe Asp Glu Phe Ile
 130 135 140
 Glu Thr Val Thr Phe Tyr Val Met Asn Arg Leu Arg His His Arg Glu
 145 150 155 160
 Glu Gln Gln Val Val Asp Asp Ile Pro Gln Trp Leu Arg Ser Thr Val
 165 170 175
 Glu Leu Met His Asp Lys Gly Gln Phe Ser Asp Asn Ala Leu Glu Asn
 180 185 190
 Met Val Ala Leu Ser Gly Lys Ser Gln Glu Tyr Leu Thr Arg Ala Thr
 195 200 205
 Gln Arg Tyr Tyr Arg Lys Thr Pro Val Gln Ile Ile Asn Glu Ile Arg
 210 215 220
 Ile Asn Phe Ala Lys Lys Gln Leu Glu Ile Thr Asn Tyr Ser Val Thr
 225 230 235 240
 Asp Ile Ala Tyr Glu Ser Gly Tyr Ser Ser Pro Ser Leu Phe Ile Lys
 245 250 255
 Thr Phe Lys Lys Leu Thr Ser Phe Thr Pro Asn Ser Tyr Arg Lys Asn
 260 265 270
 Leu Thr Val Ile Asn
 275

<210> 9392

<211> 262

<212> PRT

<213> *Enterobacter cloacae*

<400> 9392

Glu Thr Glu Thr His Thr Pro Leu Arg Gly Gly Ala Met Glu Asn Leu
 1 5 10 15
 Leu Ile Val Asn Ala Asp Asp Phe Gly Leu Ser Lys Gly Gln Asn Tyr
 20 25 30
 Gly Ile Ile Glu Ala Cys Arg Arg Gly Val Val Thr Ser Thr Thr Ala
 35 40 45
 Leu Ile Asn Gly Glu Ala Val Glu His Ala Ala Gln Leu Ser Arg Glu
 50 55 60
 Leu Pro Glu Leu Gly Val Gly Met His Phe Val Leu Thr Leu Gly Leu
 65 70 75 80
 Pro Leu Ser Pro Met Pro Gly Leu Thr Arg Glu Gly Lys Leu Gly Lys
 85 90 95
 Trp Ile Trp Glu Met Ala Glu Gln Asp Ala Leu Pro Leu Asp Glu Ile

100	105	110
Ala Arg Glu Leu Glu Cys Gln Phe	Asn Arg Phe Val Asp Val Phe Gly	
115	120	125
Arg Glu Pro Thr His Ile Asp Ser His His His Val His Met Ile Pro		
130	135	140
Ala Ile Phe Pro Leu Val Ala Glu Phe Ala Gln Arg Lys Gly Val Ala		
145	150	155
Met Arg Val Asp Arg Glu Val Arg Gly Leu Pro Asp Val Ala Val Thr		
165	170	175
Ser Thr Glu Gly Phe Ser Ser Ala Phe Tyr Gly Asp Glu Ile Asp Glu		
180	185	190
Ala Leu Phe Leu Lys Val Leu Asp Asp Ser Ala Ala Lys Gly Glu Arg		
195	200	205
Ser Leu Glu Val Met Ala His Pro Ala Phe Val Asp Glu Ile Val Arg		
210	215	220
Lys Ser Ala Tyr Cys Trp Pro Arg Leu Ala Glu Leu Asp Val Leu Thr		
225	230	235
Ser Ala Ser Leu Lys Tyr Ala Ile Ala Glu Arg Gly Tyr Arg Leu Gly		
245	250	255
Thr Phe Arg Asp Leu		
260		

<210> 9393

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 9393

Glu Phe Ala Leu Val Asn Pro Ser Leu Met Lys Pro Leu Arg Gln Gln	
1	5
Asn Arg Gln Val Ile Ser Tyr Val Pro Arg Val Glu Pro Ala Pro Pro	10
20	25
Asp His Ala Leu Lys Val Asp Gly Phe Arg Asp Val Trp Met Leu Arg	30
35	40
Gly Lys Tyr Val Ala Phe Val Leu Ile Gly Glu His Phe Arg Arg Ser	45
50	55
Pro Ala Phe Thr Val Pro Glu Ser Ala Gln Arg Trp Ala Met Gln Thr	60
65	70
Arg Gln Asp Glu Glu Val Glu Glu	75
	80
	85

<210> 9394

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 9394

Ile Met Ser Ser Gly Asp Ile Thr Arg Tyr Val Val Thr Val Asn Ile	
1	5
His Glu Ala Ser Ser Leu Thr Glu Leu Asn Glu Leu Asn Asn Ala Phe Thr	10
20	25
Arg Ala Asn Phe Leu Leu Thr Leu Thr Asp Asp Glu Gly Asn Ile His	30
35	40
Asp Leu Gly Ser Leu Ala Phe Gly Leu Ile Ser Pro Leu Ser Gln Glu	45
50	55
Glu Val Lys Ala Leu Ala Ser Ser Leu Val Glu Ser Val Thr Asp Lys	60
65	70
Ala Thr Glu Ile Asp Val Asp Ser Trp Glu Asn Trp His Lys Lys Glu	75
	80
	85
Gln	90
	95

<210> 9395
 <211> 296
 <212> PRT
 <213> Enterobacter cloacae

<400> 9395
 Ser Gly Arg Gln His Gly Arg Asp Ile Met Trp Gln Ala Ile Ser His
 1 5 10 15
 Leu Leu Ser Glu Gln Leu Gly Glu Gly Glu Ile Glu Leu Arg Asn Glu
 20 25 30
 Leu Pro Gly Gly Glu Ile His Ala Ala Trp His Leu Arg Tyr Ala Gly
 35 40 45
 Arg Asp Leu Phe Val Lys Cys Asp Glu Arg Glu Leu Leu Pro Ile Phe
 50 55 60
 Thr Ala Glu Ala Asp Gln Leu Glu Leu Leu Ser Arg Ser Lys Thr Val
 65 70 75 80
 Thr Val Pro Gln Val Leu Ala Val Gly Ser Asp Arg Asp Tyr Ser Phe
 85 90 95
 Leu Val Met Asn Tyr Leu Pro Ala Arg Pro Leu Asp Ala His Asn Ala
 100 105 110
 Phe Ile Leu Gly Gln Gln Thr Ala Arg Leu His Gln Trp Ser Asp Gln
 115 120 125
 Pro Gln Phe Gly Leu Asp Phe Asp Asn Asp Leu Ser Thr Thr Pro Gln
 130 135 140
 Pro Asn Ala Trp Gln Arg Arg Trp Ser Thr Phe Phe Ala Glu Gln Arg
 145 150 155 160
 Ile Gly Trp Gln Leu Glu Leu Ala Ala Glu Lys Gly Leu Ala Phe Gly
 165 170 175
 Asn Ile Asp Ala Ile Val Glu His Ile Gln Gln Arg Leu Ala Ser His
 180 185 190
 Gln Pro Gln Ala Ser Leu Leu His Gly Asp Leu Trp Ser Asn Asn Cys
 195 200 205
 Ala Leu Gly Pro Asp Gly Pro Tyr Ile Tyr Asp Pro Ala Cys Tyr Trp
 210 215 220
 Gly Asp Arg Glu Cys Asp Leu Ala Met Leu Pro Leu His Pro Glu Gln
 225 230 235 240
 Pro Pro Gln Ile Tyr Asp Gly Tyr Gln Ser Val Ser Pro Leu Pro Ala
 245 250 255
 Gly Phe Leu Asp Arg Gln Pro Val Tyr Gln Leu Tyr Thr Leu Leu Asn
 260 265 270
 Arg Ala Ile Leu Phe Gly Gly Ser His Leu Val Asn Ala Gln Arg Ala
 275 280 285
 Leu Asp Arg Ile Leu Ala Ala
 290 295

<210> 9396
 <211> 205
 <212> PRT
 <213> Enterobacter cloacae

<400> 9396
 Ile Asp Ser Leu Pro Gly Phe Ile Met Thr Ala Glu Gly His Leu Leu
 1 5 10 15
 Phe Ser Leu Ala Cys Ala Val Phe Ala Lys Asn Ala Glu Leu Thr Pro
 20 25 30
 Val Leu Ala Gln Gly Asp Trp Trp His Ile Val Pro Ser Ala Val Leu
 35 40 45
 Thr Cys Leu Leu Pro Asp Ile Asp His Pro Lys Ser Phe Leu Gly Gln
 50 55 60
 Arg Leu Lys Trp Ile Ser Lys Pro Ile Ala Arg Ala Phe Gly His Arg

```

65          70          75          80
Gly Phe Thr His Ser Leu Leu Ala Val Phe Gly Leu Leu Thr Leu Phe
      85          90          95
Tyr Leu Lys Val Pro Glu Ser Trp Ile Val Pro Ala Asp Ala Ile Gln
      100          105          110
Gly Met Val Leu Gly Tyr Leu Ser His Ile Leu Ala Asp Met Leu Thr
      115          120          125
Pro Ala Gly Val Pro Leu Leu Trp Pro Cys Arg Trp Arg Phe Arg Leu
      130          135          140
Pro Ile Leu Val Pro Gln Lys Gly Asn Gln Leu Glu Arg Val Leu Cys
      145          150          155          160
Met Ala Leu Phe Ala Tyr Ala Val Trp Met Pro Gln Thr Leu Pro Glu
      165          170          175          180
Asn Gly Ala Val Arg Trp Ser Ser Gln Met Ile Asn Ser Leu Gln Phe
      185          190
Gln Phe Asn Arg Phe Ile Asn His Gln Ile Glu His
      195          200          205

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<210> 9397

<211> 761

<212> PRT

<213> Enterobacter cloacae

<400> 9397

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Gly Phe Gln Glu Arg Thr Lys Glu Asn Arg Ala Met Ser Asn Asn Asp
1          5          10          15
Lys Pro His Gln Ser Pro Ile His Gly Thr Glu Glu Ser Gln Pro Gly
      20          25          30
Met Asp Ser Leu Ala Pro Ala Asp Gly Ser His Lys Pro Ser Pro Gly
      35          40          45
Leu Ser Ala Pro Gly Glu Gln Pro Thr Ala Pro Gly Ser Met Lys Ser
      50          55          60
Pro Asp Ala Asp Asn Glu Lys Leu Lys Ser Leu Asp Pro His Arg Lys
      65          70          75          80
Gly Gly Glu Gly Tyr Ala Leu Thr Thr Asn Gln Gly Val Arg Ile Ala
      85          90          95
Asp Asp Gln Asn Ser Leu Arg Ala Gly Thr Arg Gly Pro Thr Leu Leu
      100          105          110
Glu Asp Phe Ile Leu Arg Glu Lys Ile Thr His Phe Asp His Glu Arg
      115          120          125
Ile Pro Glu Arg Ile Val His Ala Arg Gly Ser Ala Ala His Gly Tyr
      130          135          140
Phe Gln Pro Tyr Lys Ser Leu Lys Glu Ile Thr Lys Ala Asp Phe Leu
      145          150          155          160
Ser Asp Pro Asn Lys Lys Ile Thr Pro Val Phe Val Arg Phe Ser Thr Val
      165          170          175          180
Gln Gly Gly Ala Gly Ser Ala Asp Thr Val Arg Asp Ile Arg Gly Leu
      185          190          195
Ala Thr Lys Phe Tyr Thr Glu Glu Gly Ile Phe Asp Leu Val Gly Asn
      200          205          210
Asn Thr Pro Val Phe Phe Ile Gln Asp Ala His Lys Phe Pro Asp Phe
      215          220          225
Val His Ala Val Lys Pro Glu Pro His Trp Ala Ile Pro Gln Gly Gln
      230          235          240
Ser Ala His Asp Thr Phe Trp Asp Tyr Val Ser Leu Gln Pro Glu Thr
      245          250          255
Leu His Asn Val Met Trp Ala Met Ser Asp Arg Gly Ile Pro Arg Ser
      260          265          270
Tyr Arg Thr Met Glu Gly Phe Gly Ile His Thr Phe Arg Leu Ile Asn
      275          280          285
Ala Glu Gly Lys Ala Thr Phe Val Arg Phe His Trp Lys Pro Val Ala

```

290	295	300
Gly Lys Ala Ser Leu Val Trp Asp Glu Ala Gln Lys Leu Thr Gly Arg		
305	310	315
Asp Pro Asp Phe His Arg Arg Glu Leu Trp Glu Ser Ile Glu Ala Gly		320
	325	330
Asp Phe Pro Glu Tyr Glu Leu Gly Leu Gln Leu Ile Pro Glu Glu Asp		335
	340	345
Glu Phe Lys Phe Asp Phe Asp Leu Leu Asp Pro Thr Lys Leu Ile Pro		350
	355	360
Glu Glu Leu Val Pro Val Gln Leu Val Gly Lys Met Val Leu Asn Arg		365
	370	375
Asn Pro Asp Asn Phe Phe Ala Glu Asn Glu Gln Ala Ala Phe His Pro		380
	385	390
Gly His Ile Val Pro Gly Leu Asp Phe Thr Asn Asp Pro Leu Leu Gln		395
	405	410
Gly Arg Leu Phe Ser Tyr Thr Asp Thr Gln Ile Ser Arg Leu Gly Gly		415
	420	425
Pro Asn Phe His Glu Ile Pro Ile Asn Arg Pro Thr Cys Pro Tyr His		430
	435	440
Asn Phe Gln Arg Asp Gly Met His Arg Gln Asp Ile Asp Thr Asn Pro		445
	450	455
Ala Asn Tyr Glu Pro Asn Ser Ile Asn Asp Asn Trp Pro Arg Glu Thr		460
	465	470
Pro Pro Gly Pro Lys Arg Gly Gly Phe Glu Ser Tyr Gln Glu Arg Val		475
	485	490
Asp Gly Thr Lys Ile Arg Glu Arg Ser Pro Ser Phe Gly Glu Tyr Tyr		495
	500	505
Ala Gln Pro Arg Leu Phe Trp Asn Ser Gln Thr Pro Ile Glu Gln Gln		510
	515	520
His Ile Ile Gly Gly Phe Ser Phe Glu Leu Ser Lys Val Val Arg Thr		525
	530	535
Tyr Ile Arg Glu Arg Val Val Asp His Leu Ala His Ile Asp Ile Gln		540
	545	550
Leu Ala Gln Gly Val Ala Asn Asn Leu Gly Ile Thr Leu Thr Asp Glu		555
	565	570
Gln Cys His Ala Ala Pro Pro Lys Asp Val Asn Gly Leu Lys Lys Asp		575
	580	585
Pro Ser Leu Ser Leu Tyr Ala Val Pro Gly Gly Ser Ile Lys Gly Arg		590
	595	600
Val Val Ala Ile Leu Leu Asn Asp Lys Pro Arg Ala Ser Asp Val Leu		605
	610	615
Gly Ile Met Arg Ala Leu Lys Thr Gln Gly Val His Ala Lys Leu Leu		620
	625	630
Tyr Ser Arg Met Gly Glu Val Thr Ala Asp Asp Gly Ser Val Leu Pro		635
	645	650
Ile Ala Ala Thr Phe Ala Gly Ala Pro Ser Leu Thr Val Asp Ala Val		655
	660	665
Ile Met Pro Cys Gly Asp Val Glu Ser Leu Leu Gly Asn Gly Asp Ala		670
	675	680
Ala Tyr Tyr Leu Leu Glu Ala Tyr Lys His Leu Lys Pro Ile Ala Leu		685
	690	695
Ala Gly Asp Ala Arg Lys Phe Lys Thr Leu Leu Lys Val Pro Asp Gln		700
	705	710
Gly Glu Glu Gly Ile Val Glu Gly Asp Asn Val Asp Asp Ala Phe Met		715
	725	730
Thr Arg Leu Phe Asp Leu Leu Ala Ala His Arg Val Trp Ser Arg Ser		735
	740	745
Ser Lys Ile Asp Gln Ile Pro Ala		750
	755	760

<211> 317

<212> PRT

<213> *Enterobacter cloacae*

<400> 9398

```

Pro Pro Pro Gly Ser Phe Leu Thr Thr Glu His Leu Leu His Cys Met
1      5      10      15
Pro Glu Gln Tyr Met Glu Gln Tyr Val Ser Arg Arg Gln Ser Ala Pro
20      25      30
Arg Leu Glu Phe Glu Ala Ala Ala Ile Tyr Glu Tyr Pro Glu His Leu
35      40      45
Arg Pro Trp Leu Glu Ala Leu Pro Lys Gln Pro Gly Val Tyr Phe Phe
50      55      60
His Gly Asp Ser Asp Thr Met Pro Leu Tyr Ile Gly Lys Ser Val Asn
65      70      75      80
Ile Arg Ser Arg Val Met Ser His Leu Arg Thr Pro Asp Glu Ala Ser
85      90      95
Met Leu Arg Gln Ser Arg Arg Ile Thr Trp Ile Glu Thr Ala Gly Glu
100     105     110
Leu Gly Ala Leu Leu Leu Glu Ala Arg Leu Ile Lys Glu Gln Gln Pro
115     120     125
Leu Phe Asn Lys Arg Leu Arg Arg Asn Arg Gln Leu Cys Ser Leu Gln
130     135     140
Val Asn Ala Gly Lys Pro Gln Val Val Tyr Ala Arg Glu Val Asp Phe
145     150     155     160
Ser His Glu Pro Asn Leu Tyr Gly Leu Phe Ala Asn Lys Arg Ala Ala
165     170     175
Leu Gln Thr Leu Gln Ser Leu Ala Asp Glu Leu Gln Leu Cys Tyr Gly
180     185     190
Leu Leu Gly Leu Glu Ala Thr Thr Arg Gly Arg Ala Cys Phe Arg Ser
195     200     205
Ala Leu Lys Arg Cys Ala Gly Ala Cys Cys Gly Lys Glu Ser Val Glu
210     215     220
Glu His His Ala Arg Phe Met Ala Gly Leu Ala Ser Ile Ser Val Asn
225     230     235     240
Cys Trp Pro Trp Glu Gly Ala Val Ala Leu Lys Glu Thr Arg Asp Ala
245     250     255
Met Thr His Tyr His Ile Ile Arg Asn Trp Leu Trp Leu Gly Ala Val
260     265     270
Glu Ser Leu Asp Asp Ala Thr Ala Leu Leu Arg Thr Pro Ala Gly Phe
275     280     285
Asp Gln Asp Gly Tyr Lys Ile Leu Cys Lys Pro Leu Leu Thr Gly Lys
290     295     300
Tyr Glu Ile Ile Val Leu Ser Asp Pro Ala Ala Arg
305     310     315

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<210> 9399

<211> 161

<212> PRT

<213> *Enterobacter cloacae*

<400> 9399

```

Pro Val Ser Arg Pro Pro Cys Thr Arg Phe Ser Thr Pro Gly Gly Ser
1      5      10      15
Pro Ala Cys Ser Gln Ser Phe Thr Thr Ala Ser Pro Val Lys Gly Val
20      25      30
Asn Ser Leu Gly Leu Lys Met Thr Val Phe Pro Ala Ser Ser Ala Gly
35      40      45
Thr Met Cys Pro Phe Gly Arg Cys Pro Gly Lys Leu Tyr Gly Pro Asn
50      55      60
Thr Ala Ser Thr Pro Cys Gly Arg Trp Arg Ser Val Ala Ala Pro Ser

```

65				70					75				80
Gly	Ile	Ser	Val	Cys	Ser	Pro	Val	Arg	Val	Trp	Tyr	Ala	Phe Thr
				85				90				95	
Asp	Ile	Ala	Ile	Leu	Leu	Ile	Ile	Ala	Val	Thr	Ser	Val	Val Ala Ser
			100					105				110	
Gln	Arg	Gly	Leu	Leu	Val	Ser	Gln	Ala	Met	Met	Arg	Val	Ser Ser Ala
			115					120				125	
Leu	Leu	Ala	Ser	Ser	Ser	Ala	Ala	Asn	Phe	Ser	Thr	Ser	Ala Trp Arg
			130				135					140	
Ser	Glu	Asn	Gly	Arg	Phe	Ala	His	Ala	Gly	Asn	Ala	Arg	Arg Ala Ala
145				150						155			160

<210> 9400

<211> 515

<212> PRT

<213> Enterobacter cloacae

<400> 9400

Arg	Pro	Gly	Ala	Gly	Met	Ala	Ser	Pro	Leu	Arg	Asn	Pro	Leu	Ser	Gly
1				5					10				15		
Leu	Val	Trp	Ala	Ala	Met	Ala	Val	Ile	Tyr	Leu	Pro	Leu	Leu	Pro	Ala
			20					25				30			
Ser	Gly	Met	Leu	Leu	Ala	Pro	Ala	Phe	Ser	Pro	Gly	Asn	Trp	Ala	Thr
		35				40						45			
Leu	Phe	Ala	Asp	Pro	Gln	Leu	Pro	Gln	Ala	Leu	Ala	Ala	Thr	Leu	Val
		50				55					60				
Ser	Ala	Leu	Ile	Ala	Thr	Leu	Gly	Ser	Leu	Phe	Ile	Ala	Leu	Thr	Leu
65				70						75				80	
Leu	Ala	Leu	Leu	Trp	Pro	Gly	Glu	Gly	Trp	Gln	Arg	Leu	Ser	Thr	Arg
			85						90				95		
Leu	Pro	Trp	Leu	Leu	Ala	Val	Pro	His	Val	Ala	Phe	Ala	Thr	Ser	Ala
			100					105					110		
Leu	Leu	Leu	Phe	Ala	Glu	Gly	Gly	Gln	Phe	Tyr	Arg	Ile	Cys	Thr	Val
			115				120					125			
Cys	Ser	Pro	Gln	Leu	Asp	Arg	Tyr	Gly	Ile	Gly	Leu	Gly	Leu	Thr	Leu
		130				135					140				
Ala	Val	Lys	Glu	Ser	Ala	Phe	Val	Leu	Trp	Thr	Ile	Tyr	Ala	Ala	Leu
145				150						155					160
Pro	Glu	Lys	Arg	Leu	Val	Gln	Gln	Lys	Ile	Val	Leu	His	Thr	Phe	Gly
			165						170					175	
Tyr	Gly	Arg	Met	Gln	Ala	Leu	Asn	Trp	Leu	Ile	Leu	Pro	Ala	Ile	Ala
			180					185					190		
Pro	Ala	Leu	Gly	Ala	Val	Met	Leu	Ala	Val	Leu	Ala	Trp	Ser	Leu	Ser
			195			200						205			
Val	Val	Asp	Val	Ala	Ile	Val	Leu	Gly	Pro	Gly	Asn	Pro	Pro	Thr	Leu
		210				215					220				
Ala	Val	Leu	Ala	Trp	Gln	Trp	Leu	Thr	Gln	Gly	Asp	Ala	Gln	Gln	Gln
225					230					235				240	
Thr	Lys	Gly	Thr	Leu	Cys	Leu	Val	Leu	Leu	Leu	Leu	Leu	Ala	Ala	Ala
			245					250					255		
Leu	Ala	Ala	Val	Gly	Tyr	Gly	Phe	Trp	Thr	Ala	Trp	Arg	Arg	Ala	Gln
			260					265					270		
Pro	Ala	Pro	Ser	Gly	Val	Arg	Arg	Ala	Ser	His	Ser	Ala	Leu	Pro	Ala
			275				280					285			
Arg	Thr	Leu	Gly	Gly	Leu	Leu	Pro	Leu	Cys	Gly	Val	Leu	Cys	Ala	Leu
			290				295				300				
Val	Leu	Leu	Met	Leu	Ala	Arg	Arg	Asp	Asp	Ile	Gly	Pro	Val	Ser	Asp
305				310						315					320
Ser	Leu	Ser	Leu	Gly	Leu	Leu	Ser	Ser	Leu	Thr	Ala	Leu	Ala	Ile	Leu

325 330 335
 Met Ile Trp Leu Glu Trp Gly Pro Gln Arg Gly Ala Val Trp Ile Trp
 340 345 350
 Leu Pro Leu Ala Leu Pro Ala Leu Pro Leu Val Ser Gly Gln Tyr Ala
 355 360 365
 Val Ala Leu Trp Leu Gly Ile Asp Gly Gln Tyr Ala Ala Val Leu Trp
 370 375 380
 Ser His Met Leu Trp Val Leu Pro Trp Met Leu Leu Val Leu Gln Pro
 385 390 395 400
 Ala Trp Arg Arg Leu Asp Pro Arg Leu Ile Leu Thr Ala Arg Thr Leu
 405 410 415
 Gly Trp Arg Arg Ala Lys Ile Phe Trp Leu Val Lys Cys Pro Leu Met
 420 425 430
 Val Arg Pro Ala Leu Leu Ala Phe Ala Thr Gly Phe Ser Val Ser Met
 435 440 445
 Ala Gln Tyr Met Pro Thr Leu Trp Leu Gly Ala Gly Arg Phe Thr Thr
 450 455 460
 Leu Thr Thr Glu Ala Val Ala Leu Ser Ser Gly Gly Ser Ile Pro Ile
 465 470 475 480
 Leu Ala Ser Arg Ala Leu Gly Leu Leu Leu Thr Ser Ser Val Phe
 485 490 495
 Ala Leu Ala Ala Leu Leu Ser Arg Leu Val Gly Arg His Arg Gln Gly
 500 505 510
 Leu Arg

515

<210> 9401
 <211> 468
 <212> PRT
 <213> Enterobacter cloacae

<400> 9401
 Leu Arg Phe Leu Ala Gly Asn Asn Val Leu Thr Gln Cys Phe Trp Leu
 1 5 10 15
 Gln Glu Arg Arg Gln Cys Pro Pro Leu Leu Met Thr Ser Gly Phe Ser
 20 25 30
 Met Lys Arg Val Ser Gln Leu Thr Ala Leu Ala Leu Ile Cys Gly Leu
 35 40 45
 Ala Ser Leu Ser Ser Thr Ala Ala Asp Met Pro His Ser Leu Thr Leu
 50 55 60
 Ala Gln Leu Gln Thr Gln Asn Gly Ala Val Ile Asp Thr Arg Ile Ser
 65 70 75 80
 Ala Phe Tyr Asn Gly Trp Pro Gln Thr Leu Ser Gly Thr Ser Gly His
 85 90 95
 Glu Pro Ala Ala Leu Asn Leu Ser Ala Ser Trp Leu Gly Ala Met Ser
 100 105 110
 Asp Glu Gln Leu Ser Gly Trp Ala Lys Gln His Arg Leu Thr Pro Asp
 115 120 125
 Met Pro Val Ala Leu Tyr Gly Asn Asp Asn Asp Asn Gln Thr Val Lys
 130 135 140
 Thr Arg Leu Glu Lys Ala Gly Phe Thr His Val Ser Thr Leu Ser Asp
 145 150 155 160
 Ala Leu Gln Gln Ser Asp Arg Leu Gln Arg Leu Ala His Phe Glu Gln
 165 170 175
 Leu Val Tyr Pro Gln Trp Ile Arg Gln Leu Gln Gln Gly Lys Pro Val
 180 185 190
 Thr Ala Ala Pro Ala Gly Glu Trp Lys Val Ile Glu Ala Gly Trp Gly
 195 200 205
 Thr Pro Lys Leu Tyr Leu Leu Ser His Ile Pro Asp Ala Gly Tyr Ile
 210 215 220
 Asp Thr Asn Glu Val Glu Ser Glu Pro Leu Trp Asn Lys Val Ser Asp

225 230 235 240
 Glu Lys Leu Lys Ala Met Leu Ala Lys His Gly Ile Arg His Asp Thr
 245 250 255
 Thr Val Ile Leu Tyr Gly Arg Asp Val Tyr Ala Ala Ala Arg Val Ala
 260 265 270
 Gln Ile Met Leu Tyr Ala Gly Val Arg Asp Val Arg Ile Leu Asp Gly
 275 280 285
 Gly Trp Lys Ala Trp Ser Asp Ala Ser Leu Pro Val Glu Arg Gly Thr
 290 295 300
 Pro Ala Asn Val Lys Pro Ala Pro Asp Phe Gly Ala Pro Ile Pro Gly
 305 310 315 320
 Gln Pro Gln Leu Met Val Asp Met Glu Gln Ala Arg Gly Met Leu His
 325 330 335
 Arg Gln Asp Ala Ser Leu Val Ser Ile Arg Ser Trp Pro Glu Phe Ile
 340 345 350
 Gly Glu Thr Ser Gly Tyr Ser Tyr Ile Lys Pro Lys Gly Glu Ile Ala
 355 360 365
 Gly Ala Arg Trp Gly His Ala Gly Ser Asp Ala Thr His Met Glu Asp
 370 375 380
 Phe His Asn Pro Asp Gly Thr Met Arg Ser Ala Asp Asp Ile Ala Ala
 385 390 395 400
 Met Trp Lys Thr Trp Asn Ile Leu Pro Glu Gln His Val Ala Phe Tyr
 405 410 415
 Cys Gly Thr Gly Trp Arg Ala Ser Glu Ala Phe Met Tyr Ala Arg Ala
 420 425 430
 Met Gly Trp Gln Asn Val Ala Val Tyr Asp Gly Gly Trp Tyr Glu Trp
 435 440 445
 Ser Ser His Pro Gln Asn Pro Val Ser Thr Gly Glu Arg Gly Pro Glu
 450 455 460
 Ser Ala Arg
 465

<210> 9402

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9402

Leu Leu Thr Asn Met Leu Lys Thr Leu Asp Val Val Ala Ala Ile Leu
 1 5 10 15
 Glu Asn Glu Gly Lys Ile Leu Leu Ala Gln Arg Pro Glu His Ala Asp
 20 25 30
 Gln Pro Gly Met Trp Glu Phe Ala Gly Gly Lys Val Glu Ala Gly Glu
 35 40 45
 Thr Gln Pro Glu Ala Leu Ile Arg Glu Leu Arg Glu Glu Leu Gly Ile
 50 55 60
 Glu Ala Val Pro Ala Arg Tyr Val Ala Ser His Gln Arg Glu Val Ser
 65 70 75 80
 Gln Arg Leu Ile His Leu His Ala Trp His Val Pro Glu Phe Ser Gly
 85 90 95
 Glu Leu Lys Ala His Tyr His Ser Ala Leu Val Trp Cys Thr Pro Glu
 100 105 110
 Asp Ala Phe Thr Tyr Asp Leu Ala Pro Ala Asp Ile Pro Leu Leu Glu
 115 120 125
 Ala Phe Ile Leu Leu Arg Asp Ala Arg Pro Ala Gly Leu Tyr
 130 135 140

<210> 9403

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 9403

Arg Ile Asp Cys Pro Pro Ser Ala Trp Gly Val Thr Leu Phe Gln Ala
 1 5 10 15
 Ala Ser Ala Ala Cys Pro Ala Lys Ser Lys Gln Arg Phe Thr Leu Phe
 20 25 30
 Ala Phe Leu Ile Pro Asp Ser Tyr Ser Tyr Val Gln Asn Asp Asn Asn
 35 40 45
 Leu Thr Ser Glu Ala Arg Met Ile Leu Asp Ala Phe Thr Leu Ala Gly
 50 55 60
 Lys Val Ala Met Val Thr Gly Cys Asp Thr Gly Leu Gly Gln Gly Met
 65 70 75 80
 Ala Ile Ala Leu Ala Glu Ala Gly Cys Asp Ile Val Gly Val Asn Arg
 85 90 95
 Lys Val Pro Asp Glu Thr Ala Ala Arg Val Thr Ala Leu Gly Arg Arg
 100 105 110
 Phe Ile Ala Ile Arg Ala Asp Leu Gly Lys Gln Glu Ser Ile Gln Ser
 115 120 125
 Val Val Asp Thr Ala Val Ala Glu Met Gly Arg Ile Asp Ile Leu Val
 130 135 140
 Asn Asn Ala Gly Thr Ile Arg Arg Ala Asp Ala Leu Glu Phe Ser Glu
 145 150 155 160
 Lys Asp Trp Asp Glu Val Ile Asp Leu Asn Leu Lys Ser Val Phe Phe
 165 170 175
 Leu Ser Gln Ala Val Ala Lys Gln Phe Ile Ala Gln Gly Gln Gly Gly
 180 185 190
 Lys Ile Ile Asn Ile Ala Ser Met Leu Ser Phe Gln Gly Gly Ile Arg
 195 200 205
 Val Pro Ser Tyr Thr Ala Ser Lys Ser Gly Val Leu Gly Leu Thr Arg
 210 215 220
 Leu Leu Ala Asn Glu Trp Ala Thr Leu Gly Ile Asn Val Asn Ala Ile
 225 230 235 240
 Ala Pro Gly Tyr Met Val Thr Asn Asn Thr Arg Gln Leu Arg Asp Asp
 245 250 255
 Glu Gln Arg Ser Gln Ala Ile Leu Asp Arg Ile Pro Ala Gly Arg Trp
 260 265 270
 Gly Leu Pro Glu Asp Leu Gln Gly Pro Val Val Phe Leu Ala Ser Arg
 275 280 285
 Ala Ser Asp Tyr Val Asn Gly His Thr Leu Ala Val Asp Gly Gly Trp
 290 295 300
 Leu Ala Arg
 305

<210> 9404

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 9404

Ile Arg Arg Thr Gly Met Asn Phe Pro Leu Ile Ala Asn Ile Val Val
 1 5 10 15
 Phe Val Val Leu Leu Leu Leu Leu Ala Gln Ala Arg His Lys Gln Trp
 20 25 30
 Ser Leu Ala Lys Lys Val Leu Val Gly Leu Val Met Gly Val Val Phe
 35 40 45
 Gly Leu Ala Leu His Ala Ile Tyr Gly Ser Asp Ser Pro Val Leu Lys
 50 55 60
 Asp Ser Ile Gln Trp Phe Asn Ile Val Gly Asn Gly Tyr Val Gln Leu
 65 70 75 80
 Leu Gln Met Ile Val Met Pro Leu Val Phe Ala Ser Ile Leu Ser Ala
 85 90 95

Val Ala Arg Leu His Asn Ala Ser Gln Leu Gly Lys Ile Ser Phe Leu
 100 105 110
 Thr Ile Gly Thr Leu Leu Phe Thr Thr Leu Ile Ala Ala Leu Val Gly
 115 120 125
 Val Leu Val Thr Asn Leu Phe Gly Leu Thr Ala Glu Gly Leu Val Gln
 130 135 140
 Gly Ser Ala Glu Thr Ala Arg Leu Thr Ala Ile Glu Thr Asn Tyr Val
 145 150 155 160
 Gly Lys Val Ala Asp Leu Thr Val Pro Gln Met Val Leu Ser Phe Ile
 165 170 175
 Pro Lys Asn Pro Phe Ala Asp Leu Thr Gly Ala Ser Pro Thr Ser Ile
 180 185 190
 Ile Ser Val Val Ile Phe Ala Ala Phe Leu Gly Val Ala Ala Leu Lys
 195 200 205
 Leu Leu Lys Asp Asp Ala Pro Lys Gly Glu Arg Val Leu Thr Ala Ile
 210 215 220
 Asp Thr Leu Gln Ser Trp Val Met Lys Leu Val Arg Leu Val Met Gln
 225 230 235 240
 Leu Thr Pro Tyr Gly Val Leu Ala Leu Met Thr Lys Val Val Ala Gly
 245 250 255
 Ser Asn Leu Gln Asp Ile Ile Lys Leu Gly Ser Phe Val Ile Ala Ser
 260 265 270
 Tyr Leu Gly Leu Gly Ile Met Phe Val Val His Gly Ile Leu Leu Gly
 275 280 285
 Val Asn Gly Val Gly Pro Leu Lys Tyr Phe Arg Lys Val Trp Pro Val
 290 295 300
 Leu Thr Phe Ala Phe Thr Ser Arg Ser Ser Ala Ala Ser Ile Pro Leu
 305 310 315 320
 Asn Val Glu Ala Gln Thr Arg Arg Leu Gly Val Pro Glu Ser Ile Ala
 325 330 335
 Ser Phe Ser Ala Ser Phe Gly Ala Thr Ile Gly Gln Asn Gly Cys Ala
 340 345 350
 Gly Leu Tyr Pro Ala Met Leu Ala Val Met Val Ala Pro Thr Val Gly
 355 360 365
 Ile Asn Pro Leu Asp Pro Val Trp Ile Ala Thr Leu Val Gly Ile Val
 370 375 380
 Thr Ile Ser Ser Ala Gly Val Ala Gly Val Gly Gly Ala Thr Phe
 385 390 395 400
 Ala Ala Leu Ile Val Leu Pro Ala Leu Gly Leu Pro Val Thr Leu Val
 405 410 415
 Ala Leu Leu Ile Ser Val Glu Pro Leu Ile Asp Met Gly Arg Thr Ala
 420 425 430
 Leu Asn Val Ser Gly Ser Met Thr Ala Gly Thr Leu Thr Ser Gln Trp
 435 440 445
 Leu Lys Gln Thr Asp Lys Thr Ile Leu Asp Ser Glu Asp Asp Ala Glu
 450 455 460
 Leu Ala His Arg
 465

<210> 9405

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 9405

Leu Gly Glu Ala Asp Asn Arg Arg Arg Lys Phe Cys Tyr His Pro Cys
 1 5 10 15
 Thr Ile His Leu Ala Leu Ala Ala Thr Met Lys Phe Val Ser Phe Asn
 20 25 30
 Ile Asn Gly Leu Arg Ala Arg Pro His Gln Leu Glu Ala Ile Val Glu
 35 40 45

Gln His Gln Pro Asp Val Ile Gly Leu Gln Glu Thr Lys Val His Asp
 50 55 60
 Asp Met Phe Pro Leu Glu Glu Val Ala Lys Leu Gly Tyr Asn Val Phe
 65 70 75 80
 Tyr His Gly Gln Lys Gly His Tyr Gly Val Ala Leu Leu Thr Lys Asp
 85 90 95
 Thr Pro Val Ser Val Arg Arg Gly Phe Pro Gly Asp Gly Glu Glu Ala
 100 105 110
 Gln Arg Arg Ile Ile Met Ala Glu Ile Pro Ser Ala Leu Gly Asn Val
 115 120 125
 Thr Val Ile Asn Gly Tyr Phe Pro Gln Gly Glu Ser Arg Asp His Glu
 130 135 140
 Thr Lys Phe Pro Ala Lys Ala Lys Phe Tyr Gln Asp Leu Gln Asn Tyr
 145 150 155 160
 Leu Thr Thr Glu Leu Lys Lys Glu Asn Pro Val Leu Ile Met Gly Asp
 165 170 175
 Met Asn Ile Ser Pro Thr Asp Leu Asp Ile Gly Ile Gly Glu Glu Asn
 180 185 190
 Arg Lys Arg Trp Leu Arg Thr Gly Lys Cys Ser Phe Leu Pro Glu Glu
 195 200 205
 Arg Glu Trp Met Glu Arg Leu Leu Gly Trp Gly Leu Val Asp Thr Phe
 210 215 220
 Arg Thr Ala Asn Pro Glu Thr Gln Asp Arg Phe Ser Trp Phe Asp Tyr
 225 230 235 240
 Arg Ser Lys Gly Phe Asp Asp Asn Arg Gly Leu Arg Ile Asp Leu Leu
 245 250 255
 Leu Ala Ser Ala Pro Leu Ala Glu Arg Cys Ile Glu Thr Gly Ile Asp
 260 265 270
 Tyr Asp Ile Arg Ser Met Glu Lys Pro Ser Asp His Ala Pro Val Trp
 275 280 285
 Ala Thr Phe Lys Leu
 290

<210> 9406

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 9406

Thr Ser Val Asn Ile Lys Lys Ile Ser Leu Leu Cys Ala Leu Leu Gly
 1 5 10 15
 Ala Phe Val Leu Ile Val Val Leu Leu Pro Pro Gly Met Leu Ser Leu
 20 25 30
 Asp Thr Leu Lys Ile His Gln Gln Thr Leu Leu Ala Val Glu Gln
 35 40 45
 Ala Pro Leu Gln Ser Ala Leu Phe Tyr Phe Ala Val Tyr Val Leu Leu
 50 55 60
 Ser Ala Leu Ser Ile Pro Gly Ala Ala Leu Leu Thr Leu Leu Gly Gly
 65 70 75 80
 Ala Leu Phe Ser Leu Trp Glu Ala Thr Leu Leu Val Ser Phe Ala Ser
 85 90 95
 Thr Leu Gly Ala Thr Leu Ala Met Leu Val Ser Arg Tyr Leu Leu Arg
 100 105 110
 Asp Trp Val Gln Arg Arg Phe Ala Ala Gln Met Asn Thr Ile Asp Ala
 115 120 125
 Gly Met Asp Arg Asp Gly Ala Arg Tyr Leu Phe Ala Leu Arg Leu Met
 130 135 140
 Pro Leu Phe Pro Phe Phe Leu Val Asn Leu Leu Met Gly Leu Thr Arg
 145 150 155 160
 Leu Arg Val Arg His Tyr Trp Trp Val Ser Gln Leu Ala Met Leu Pro
 165 170 175

Ala Thr Val Ile Tyr Leu Asn Ala Gly Arg Glu Leu Gly Lys Leu Thr
 180 185 190
 Ser Leu Arg Asp Ile Leu Ser Pro Gly Leu Leu Phe Ala Phe Thr Leu
 195 200 205
 Leu Gly Leu Leu Pro Leu Val Thr Arg Trp Leu Phe Ser Arg Tyr Ile
 210 215 220
 Pro Ser Ile Lys Lys
 225 230

<210> 9407

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 9407

Gly Ile Met Arg Arg Val Arg Phe Cys Ala Phe Leu Thr Ser Leu Leu
 1 5 10 15
 Leu Ala Thr Ser Ala Phe Ala Ala Glu Ser Trp Gln Ser Ile Gln Gln
 20 25 30
 Gln Ala Thr Gly Gln Thr Val Trp Phe Asn Ala Trp Gly Gly Asp Glu
 35 40 45
 Ala Val Asn Arg Tyr Leu Asp Trp Val Ser Gly Glu Met Lys Thr His
 50 55 60
 Tyr Ala Ile Asn Leu Lys Ile Val His Leu Ala Asp Ala Asp Ala
 65 70 75 80
 Val Lys Arg Ile Gln Thr Glu His Ala Ala Gly Arg Ser Ser Asn Gly
 85 90 95
 Ser Val Asp Leu Leu Trp Val Asn Gly Glu Asn Phe Arg Asn Leu Lys
 100 105 110
 Ala Ala Asn Leu Leu Leu Thr Gly Trp Ala Gln Thr Leu Pro Asn Trp
 115 120 125
 Arg Tyr Val Asp Thr Arg Lys Pro Val Thr Glu Asp Phe Ala Ile Pro
 130 135 140
 Thr Asp Gly Ala Glu Ser Pro Trp Gly Gly Ala Gln Leu Thr Phe Ile
 145 150 155 160
 Ala Arg Lys Ala Ser Thr Pro Thr Pro Pro Ala Asp Pro His Ala Leu
 165 170 175
 Leu Val Tyr Ala Arg Gln His Pro Gly Lys Val Ser Tyr Pro Arg Pro
 180 185 190
 Pro Asp Phe Thr Gly Thr Ala Phe Leu Glu Gln Leu Leu Ala Leu
 195 200 205
 Thr Ala His Pro Glu Ala Leu Lys Asn Ala Pro Asp Ser Thr Phe Ala
 210 215 220
 Gln Val Thr Ala Pro Leu Trp Asp Tyr Leu Asp Thr Leu His Pro Leu
 225 230 235 240
 Leu Trp Arg Glu Gly Asn Asp Phe Pro Pro Ser Pro Ala Arg Met Asp
 245 250 255
 Thr Leu Leu Ala Ser Gly Ser Leu Asn Leu Ser Leu Thr Phe Asn Pro
 260 265 270
 Ala His Ala Met Gln Lys Val Ala Ser Gly Glu Leu Pro Ala Asp Ser
 275 280 285
 Tyr Ser Phe Gly Phe Leu Lys Gly Met Ile Gly Asn Val His Phe Val
 290 295 300
 Ala Ile Pro Ala Asn Ala Ser Ala Ser Ala Gly Ala Lys Val Val Ala
 305 310 315 320
 Asn Phe Leu Leu Ser Pro Gln Ala Gln Ile Arg Lys Ala Asn Pro Ala
 325 330 335
 Val Trp Gly Asp Pro Ser Val Leu Asp Gly Glu Lys Leu Pro Ala Lys
 340 345 350
 Ala Ala Lys Gln Leu Arg Ala Phe Thr Pro Ser Gly Thr Pro Asp Val
 355 360 365

Leu Pro Glu Pro His Ala Ala Trp Val Asn Ala Leu Glu Gln Glu Trp
 370 375
 Leu Arg Arg Tyr Gly Thr Arg
 385 390

<210> 9408

<211> 453

<212> PRT

<213> Enterobacter cloacae

<400> 9408

Glu Val Leu Ile Ser Met Asp Gln Thr Arg Ser Leu Glu Ser Phe Leu
 1 5 10 15
 Ala His Val Gln Gln Arg Asp Pro His Gln Ser Glu Phe Ala Gln Ala
 20 25 30
 Val Arg Glu Val Met Thr Thr Leu Trp Pro Phe Leu Glu Glu Asn Pro
 35 40 45
 Arg Tyr Arg Gln Met Ala Leu Leu Glu Arg Leu Val Glu Pro Glu Arg
 50 55 60
 Val Ile Gln Phe Arg Val Ala Trp Val Asp Asp Asn Gln Val Gln
 65 70 75 80
 Val Asn Arg Ala Trp Arg Val Gln Phe Asn Ser Ala Ile Gly Pro Phe
 85 90 95
 Lys Gly Gly Met Arg Phe His Pro Ser Val Asn Leu Ser Ile Leu Lys
 100 105 110
 Phe Leu Gly Phe Glu Gln Thr Phe Lys Asn Ala Leu Thr Thr Leu Pro
 115 120 125
 Met Gly Gly Gly Lys Gly Gly Ser Asp Phe Asp Pro Lys Gly Lys Ser
 130 135 140
 Glu Gly Glu Val Met Arg Phe Cys Gln Ala Leu Val Thr Glu Leu Tyr
 145 150 155 160
 Arg His Leu Gly Pro Asp Thr Asp Val Pro Ala Gly Asp Ile Gly Val
 165 170 175
 Gly Gly Arg Glu Val Gly Phe Met Ala Gly Met Met Lys Lys Leu Ser
 180 185 190
 Asn Asn Ser Ala Cys Val Phe Thr Gly Lys Gly Leu Ser Phe Gly Gly
 195 200 205
 Ser Leu Ile Arg Pro Glu Ala Thr Gly Tyr Gly Leu Val Tyr Phe Thr
 210 215 220
 Glu Ala Met Leu Lys Arg His Gly Leu Ser Phe Glu Gly Met Arg Val
 225 230 235 240
 Ala Val Ser Gly Ser Gly Asn Val Ala Gln Tyr Ala Ile Glu Lys Ala
 245 250 255
 Met Ala Phe Gly Ala Arg Val Val Thr Ala Ser Asp Ser Ser Gly Thr
 260 265 270
 Val Val Asp Glu Ala Gly Phe Thr Ala Glu Lys Leu Ala Arg Leu Cys
 275 280 285
 Glu Ile Lys Ala Ser Arg Asp Gly Arg Val Ala Asp Tyr Ala Arg Glu
 290 295 300
 Phe Gly Leu Thr Tyr Leu Glu Gly Lys Gln Pro Trp Gly Val Pro Val
 305 310 315 320
 Asp Ile Ala Leu Pro Cys Ala Thr Gln Asn Glu Leu Asp Val Asp Ala
 325 330 335
 Ala Arg Thr Leu Ile Ser Asn Gly Val Lys Ala Val Ala Glu Gly Ala
 340 345 350
 Asn Met Pro Thr Thr Ile Asp Ala Thr Asp Leu Phe Leu Asp Ala Gly
 355 360 365
 Val Leu Phe Ala Pro Gly Lys Ala Ala Asn Ala Gly Gly Val Ala Thr
 370 375 380
 Ser Gly Leu Glu Met Ala Gln Asn Ala Ala Arg Met Ser Trp Lys Ala
 385 390 395 400

Glu Lys Val Asp Ala Arg Leu His His Ile Met Leu Asp Ile His His
 405 410
 Ala Cys Val Glu Tyr Gly Gly Glu Ala Ser Gln Thr Asn Tyr Val Arg
 420 425 430
 Gly Ala Asn Ile Ala Gly Phe Val Lys Val Ala Asp Ala Met Ile Gly
 435 440 445
 Gln Gly Val Ile
 450

<210> 9409

<211> 376

<212> PRT

<213> Enterobacter cloacae

<400> 9409

Ser Thr Glu Pro Leu Arg Val Leu Pro Asp Leu Arg Glu Arg Ala Leu
 1 5 10 15
 Lys Thr Val Pro Ser Ser Arg Glu Glu Gly Ile Phe Ser Phe Glu Glu
 20 25 30
 Gln Glu Leu Ile Thr Met Gln Lys Lys Ser Ile Tyr Val Ala Tyr Thr
 35 40 45
 Gly Gly Thr Ile Gly Met Gln Arg Ser Glu Asn Gly Tyr Ile Pro Val
 50 55 60
 Ser Gly His Leu Gln Arg Gln Leu Ala Leu Met Pro Glu Phe His Arg
 65 70 75 80
 Pro Glu Met Pro Asp Phe Thr Ile His Glu Tyr Glu Pro Leu Met Asp
 85 90 95
 Ser Ser Asp Met Thr Pro Glu Asp Trp Gln His Ile Ala Asp Asp Ile
 100 105 110
 Lys Ala His Tyr Asp Gln Tyr Asp Gly Phe Val Ile Leu His Gly Thr
 115 120 125
 Asp Thr Met Ala Phe Thr Ala Ser Ala Leu Ser Phe Met Leu Glu Asn
 130 135 140
 Leu Ser Lys Pro Val Ile Val Thr Gly Ser Gln Ile Pro Leu Ala Glu
 145 150 155 160
 Leu Arg Ser Asp Gly Gln Ile Asn Leu Leu Asn Ser Leu Tyr Val Ala
 165 170 175
 Ala Asn Tyr Pro Ile Asn Glu Val Thr Leu Phe Phe Asn Asn Arg Leu
 180 185 190
 Tyr Arg Gly Asn Arg Thr Thr Lys Ala His Ala Asp Gly Phe Asp Ala
 195 200 205
 Phe Ala Ser Pro Asn Leu Gln Pro Leu Leu Glu Ala Gly Ile His Ile
 210 215 220
 Arg Arg Leu Gly Thr Pro Pro Ala Pro Asn Thr Ala Gly Glu Leu Ile
 225 230 235 240
 Val His Pro Ile Thr Pro Gln Pro Ile Gly Val Val Thr Ile Tyr Pro
 245 250 255
 Gly Ile Ser Ala Asp Val Val Arg Asn Phe Leu Arg Gln Pro Val Lys
 260 265 270
 Ala Leu Ile Leu Arg Ser Tyr Gly Val Gly Asn Ala Pro Gln Asn Gly
 275 280 285
 Glu Phe Leu Lys Glu Leu Gln Glu Ala Ser Asp Arg Gly Ile Val Val
 290 295 300
 Val Asn Leu Thr Gln Cys Met Ser Gly Lys Val Asn Met Gly Gly Tyr
 305 310 315 320
 Ala Thr Gly Asn Ala Leu Ala His Ala Gly Val Ile Ser Gly Phe Asp
 325 330 335
 Met Thr Val Glu Ala Thr Leu Thr Lys Leu His Tyr Leu Leu Ser Gln
 340 345 350
 Asp Leu Asp Ile Asp Ser Ile Arg Arg Ala Met Met Gln Asn Leu Arg
 355 360 365

Gly Glu Leu Thr Pro Asp Glu
370 375

<210> 9410

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 9410

Gly Asp Pro Met Lys Gln Arg Ala Leu Leu Val Asp Leu Gln Asn
1 5 10 15
Asp Phe Cys Ala Gly Gly Ala Leu Ala Val Ala Glu Gly Asp Ser Thr
20 25 30
Val Asp Val Ala Asn Ser Leu Ile Ala Trp Cys Lys Ala Arg Gly Glu
35 40 45
Ala Val Val Ala Ser Gln Asp Trp His Pro Ala Asn His Gly Ser Phe
50 55 60
Ala Ser Gln His Asn Val Glu Pro Phe Ser Gln Gly Glu Leu Asp Gly
65 70 75 80
Leu Ala Gln Thr Phe Trp Pro Asp His Cys Val Gln Gln Thr Glu Gly
85 90 95
Ala Glu Leu His Pro Leu Leu Asn Gln Lys Ala Ile Asp Ala Val Phe
100 105 110
His Lys Gly Glu Asn Pro Thr Ile Asp Ser Tyr Ser Ala Phe Phe Asp
115 120 125
Asn Gly His Arg Gln Lys Thr Ala Leu Asp Ala Trp Leu Arg His His
130 135 140
Glu Ile Thr Glu Leu Ile Val Leu Gly Leu Ala Thr Asp Tyr Cys Val
145 150 155 160
Lys Phe Thr Val Leu Asp Ala Leu Gln Leu Gly Tyr Thr Val Asn Val
165 170 175
Ile Thr Asp Gly Cys Arg Gly Val Asn Ile Gln Pro Gln Asp Ser Ala
180 185 190
Gln Ala Phe Met Asp Met Ala Ala Glu Gly Ala Thr Leu Tyr Thr Leu
195 200 205
Ala Asp Trp Met Glu Thr Gln Ala
210 215

<210> 9411

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 9411

Thr Pro Ser His His Lys Arg Asn Gly Asp Ala Ile Leu Ser Arg Leu
1 5 10 15
Phe Phe Arg His Ala Phe Ser Val Ala Trp Leu Phe Leu Phe Ser Gln
20 25 30
Arg Gly Asn Tyr Met Lys Arg Leu Pro Leu Ala Ala Leu Pro Leu
35 40 45
Leu Cys Ala Ser Leu Ala Ser Ala Ala Pro Leu Met Ser Val Gly Tyr
50 55 60
Phe Asn Gly Gly Gly Asp Val Thr Ala Gly Pro Gly Gly Asp Ile His
65 70 75 80
Lys Leu Asp Val Arg Gln Ile Thr His Leu Asn Tyr Ser Phe Gly Leu
85 90 95
Val Tyr Asn Asn Glu Lys Asp Glu Thr Asn Ala Ala Leu Lys Asp Pro
100 105 110
Ala Lys Leu His Gln Ile Trp Leu Ser Pro Lys Val Ala Ser Asp Leu
115 120 125
Ala Leu Leu Pro Gln Leu Arg Lys Gln Asn Pro Asn Leu Lys Val Leu

130 135 140
 Leu Ser Val Gly Gly Trp Gly Ala Arg Gly Phe Ser Gly Ala Ala Ala
 145 150 155 160
 Thr Lys Glu Ser Arg Ala Val Phe Ile Arg Ser Ala Gln Glu Ile Val
 165 170 175
 Ser Gln Tyr Gly Leu Asp Gly Ile Asp Leu Asp Trp Glu Phe Pro Val
 180 185 190
 Asn Gly Ala Trp Gly Leu Val Glu Ser Thr Pro Ala Asp Arg Asp Asn
 195 200 205
 Phe Thr Ala Leu Leu Lys Glu Met Arg Asp Ala Phe Gly Lys Lys Lys
 210 215 220
 Leu Val Thr Ile Ala Val Gly Ala Asn Ala Glu Ser Pro Lys Ser Trp
 225 230 235 240
 Val Asp Val Lys Ala Ile Ala Pro Leu Leu Asp Tyr Ile Asn Leu Met
 245 250 255
 Thr Tyr Asp Met Ala Tyr Gly Thr Gln Tyr Phe Asn Ala Asn Leu Tyr
 260 265 270
 Asp Ser Ser Asp Trp Pro Thr Val Ala Ala Ala Asp Lys Tyr Ser Val
 275 280 285
 Asp Phe Val Val Asn Asn Tyr Leu Ala Ala Gly Leu Lys Pro Gln Gln
 290 295 300
 Met Asn Leu Gly Ile Gly Phe Tyr Gly Arg Val Pro Lys Arg Ala Val
 305 310 315 320
 Glu Pro Gly Ile Asp Trp Ser Lys Pro Asp Ala Gln Asn Asn Pro Val
 325 330 335
 Thr Gln Pro Tyr Phe Gly Pro Gln Glu Leu Ser Leu Phe Lys Ser Leu
 340 345 350
 Gly Tyr Asp Leu Thr Lys Asp Thr Tyr Val Lys Tyr Asn Asp Ile Val
 355 360 365
 Arg Lys Leu Leu Asn Asp Pro Gln Lys Arg Phe Thr Glu His Trp Asp
 370 375 380
 Glu Gln Ala Lys Val Pro Trp Leu Ser Val Lys Ser Ala Asp Gly Lys
 385 390 395 400
 Ala Leu Phe Ala Ile Ser Tyr Glu Asn Pro Arg Ser Val Ala Ile Lys
 405 410 415
 Ala Asp Tyr Ile Lys Glu Lys Gly Leu Ala Gly Ala Met Phe Trp Glu
 420 425 430
 Tyr Gly Ala Asp Asp Glu Asn Gln Leu Ala Lys Gln Leu Ala Glu Ser
 435 440 445
 Leu Gly Ile Leu His Gln
 450 455

<210> 9412

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 9412

Lys Glu Val Met Met Ala Ser Ile Tyr Thr Leu Thr Leu Ser Pro Ser
 1 5 10 15
 Leu Asp Ser Ala Thr Met Thr Pro Gln Ile Tyr Pro Glu Gly Lys Leu
 20 25 30
 Arg Cys Ser Ala Pro Val Phe Glu Pro Gly Gly Gly Ile Asn Val
 35 40 45
 Ala Arg Ala Ile Thr His Leu Gly Gly Lys Ala Thr Ala Ile Phe Pro
 50 55 60
 Ala Gly Gly Ala Thr Gly Glu His Leu Val Ala Leu Leu Ala Asp Glu
 65 70 75 80
 Gln Val Ala Val Asp Thr Val Asp Ala Lys Asp Trp Thr Arg Gln Asn
 85 90 95
 Leu His Val His Val Glu Ser Ser Gly Glu Gln Tyr Arg Phe Val Met

100 105 110
 Pro Gly Ala Lys Leu Thr Asp Asp Glu Phe Arg Gln Leu Glu Glu Lys
 115 120 125
 Val Leu Thr Ile Glu Ser Gly Ser Leu Leu Val Ile Ser Gly Ser Leu
 130 135 140
 Pro Pro Gly Val Lys Thr Glu Lys Leu Thr Ala Leu Val Gln Ala Ala
 145 150 155 160
 Leu Gln Arg Gly Ile Arg Cys Ile Val Asp Ser Ser Gly Glu Ala Leu
 165 170 175
 Lys Ala Ala Leu Glu Pro Gly Gln Leu Glu Leu Val Lys Pro Asn Gln
 180 185 190
 Lys Glu Leu Ser Ala Leu Val Asn Arg Glu Leu Ser Gln Pro Asp Asp
 195 200 205
 Val Arg Thr Ala Ala Glu Glu Leu Val Arg Thr Gly Lys Ala His Arg
 210 215 220
 Val Val Val Ser Leu Gly Pro Gln Gly Ala Leu Ala Val Asp Lys Thr
 225 230 235 240
 Gly Phe Val Gln Val Val Pro Pro Pro Met Lys Ser Gln Ser Thr Val
 245 250 255
 Gly Ala Gly Asp Ser Met Val Gly Ala Met Val Leu Lys Leu Ala Gln
 260 265 270
 Gly Ala Ser Leu Leu Glu Met Ala Arg Tyr Gly Val Ala Ala Gly Ser
 275 280 285
 Ala Ala Thr Ile Asn Gln Gly Thr Arg Leu Cys Ser Leu Ala Asp Thr
 290 295 300
 Gln Lys Ile Val Asp Tyr Leu Glu Arg Ser
 305 310 315

<210> 9413

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 9413

Gly Asp Val Val Met Ser Thr Pro Arg Lys Ile Leu Ala Ala Ile Phe
 1 5 10 15
 Asp Met Asp Gly Leu Leu Ile Asp Ser Glu Pro Leu Trp Asp Arg Ala
 20 25 30
 Glu Leu Asp Val Met Ala Ser Leu Gly Val Asp Ile Ser Arg Arg Asn
 35 40 45
 Glu Leu Pro Asp Thr Leu Gly Leu Arg Ile Asp Met Val Val Asp Leu
 50 55 60
 Trp Tyr Ala His Gln Pro Trp Val Gly Pro Asp Arg Asp Glu Val Thr
 65 70 75 80
 Ala Arg Ile Ile Asn Arg Ala Ile Ser Leu Val Glu Glu Tyr Lys Pro
 85 90 95
 Leu Leu Pro Gly Val Arg Asp Ala Ile Ala Leu Cys Lys Ala Gln Gly
 100 105 110
 Leu Lys Val Gly Leu Ala Ser Ala Ser Pro Leu His Met Leu Glu Lys
 115 120 125
 Val Leu Thr Met Phe Gly Leu Arg Asp Ser Phe Asp Ala Leu Ala Ser
 130 135 140
 Ala Glu Lys Leu Pro Tyr Ser Lys Pro His Pro Gln Val Tyr Met Asp
 145 150 155 160
 Cys Ala Ala Lys Leu Gly Leu Asp Pro Leu Thr Cys Val Ala Leu Glu
 165 170 175
 Asp Ser Val Asn Gly Met Val Ala Ser Lys Ala Ala Arg Met Arg Ser
 180 185 190
 Ile Val Val Pro Ala Glu Glu Gly Arg His Asp Pro Arg Phe Ala Leu
 195 200 205
 Ala Asp Val Arg Leu Thr Ser Leu Glu Glu Leu Thr Ala Arg His Leu

210
Arg Gly Glu
225

215

220

<210> 9414
<211> 312
<212> PRT
<213> Enterobacter cloacae

<400> 9414

```

Ile Ala Val Lys Gln Tyr Thr Gln Asn Cys Asp Pro Cys Arg Phe Pro
1          5          10          15
Asp Lys Gly Leu Val Leu Thr Asp His Thr Phe Cys Leu Val Leu His
          20          25          30
Arg Glu Gly Val Met Ala Leu Gln Gln Glu Ile Ile Gln Ala Leu Gly
          35          40          45
Ala Lys Pro Ala Ile Asp Ala Asn Glu Glu Ile Arg Arg Ser Val Asp
          50          55          60
Phe Leu Lys Ala Tyr Leu Ser Ala His Pro Phe Leu Lys Thr Leu Val
65          70          75          80
Leu Gly Ile Ser Gly Gly Gln Asp Ser Thr Leu Ala Gly Lys Leu Ser
          85          90          95
Gln Met Ala Ile Ser Glu Leu Arg Asp Glu Thr Gly Asp Thr Ala Leu
          100          105          110
Gln Phe Ile Ala Val Arg Leu Pro Tyr Gly Val Gln Ala Asp Glu Gln
          115          120          125
Asp Cys Gln Asp Ala Ile Ala Phe Ile Gln Pro Asp Arg Val Leu Thr
          130          135          140
Val Asn Ile Lys Gly Ser Val Leu Ala Ser Glu Gln Ala Leu Arg Glu
145          150          155          160
Ala Gly Ile Glu Leu Ser Asp Phe Val Arg Gly Asn Glu Lys Ala Arg
          165          170          175
Glu Arg Met Lys Ala Gln Tyr Ser Ile Ala Gly Met Thr Lys Gly Val
          180          185          190
Val Val Gly Thr Asp His Ala Ala Glu Ala Ile Thr Gly Phe Phe Thr
          195          200          205
Lys Tyr Gly Asp Gly Gly Thr Asp Ile Asn Pro Leu Phe Arg Leu Asn
          210          215          220
Lys Arg Gln Gly Lys Gln Leu Leu Ala Ala Leu Gly Cys Pro Glu His
225          230          235          240
Leu Tyr Lys Lys Ala Pro Thr Ala Asp Leu Glu Asp Asp Arg Pro Ser
          245          250          255
Leu Pro Asp Glu Ala Ala Leu Gly Val Thr Tyr Asp Asn Ile Asp Asp
          260          265          270
Tyr Leu Glu Gly Lys Thr Leu Asp Glu Gly Thr Ala Asn Ile Ile Glu
          275          280          285
Gly Trp Tyr Leu Lys Thr Glu His Lys Arg Arg Pro Pro Ile Thr Val
          290          295          300
Phe Asp Asp Phe Trp Lys Lys
305          310

```

<210> 9415
<211> 381
<212> PRT
<213> Enterobacter cloacae

<400> 9415

```

Val Gly Thr Pro Ala Arg Arg Gly Val Asp Leu Ala Ala Ala Cys Pro
1          5          10          15
Pro Gly Ala Ala Pro Arg Val Arg Ala Val Cys Arg Gly Ala Val Ala
          20          25          30

```

Gly His Arg Arg Pro Val Arg Cys Gly Ala Leu Glu Pro Tyr Ala Leu
 35 40 45
 Gly Pro Pro Val Asp Ala Pro Gly Ala Ala Thr Gly Leu Ala Pro Ala
 50 55 60
 Arg Ser Pro Ala Tyr Pro His Cys Gln Asn Ala Gly Leu Ala Ala Gly
 65 70 75 80
 Glu Asn Phe Leu Ala Ser Glu Met Pro Ile Asp Gly Ser Ser Gly Pro
 85 90 95
 Ala Gly Leu Cys His Arg Leu Phe Arg Glu His Gly Pro Val His Ala
 100 105 110
 Tyr Pro Leu Ala Gly Gly Gly Thr Phe His His Pro Asp Gly Gly
 115 120 125
 Gly Arg Pro Gln Gln Arg Arg Gln His Ser Asp Pro Arg Gln Pro Gly
 130 135 140
 Ala Gly Ser Val Val Val Asp Gln Gln Arg Ile Cys Pro Cys Arg Ala
 145 150 155 160
 Ala Leu Pro Ala Arg Gly Pro Ser Gln Thr Arg Ile Thr Leu Met Leu
 165 170 175
 Thr Val Lys Asn Leu Thr Ile Ala Pro Leu Leu His Glu Val Asn Phe
 180 185 190
 Arg Val Pro Ala Gly Glu Ile Val Thr Leu Met Gly Pro Ser Gly Ser
 195 200 205
 Gly Lys Ser Thr Leu Phe Ala Trp Met Val Gly Ala Leu Ser Ala Asp
 210 215 220
 Phe Lys Ala His Gly Glu Leu Trp Leu Asn Asp Arg Arg Cys Asp Met
 225 230 235 240
 Leu Pro Val Glu Thr Arg Gly Ile Gly Ile Leu Phe Gln Asp Ala Leu
 245 250 255
 Leu Phe Asp Ala Phe Ser Val Gly Gln Asn Leu Met Leu Ala Leu Pro
 260 265 270
 Ala His Ile Val Gly Arg Ala Arg Asn Ala Val Glu Gln Ala Leu
 275 280 285
 Glu Thr Ala Gly Leu Ala Asn His Tyr Thr Ser Asp Pro Ala Thr Leu
 290 295 300
 Ser Gly Gly Glu Arg Ala Arg Val Ser Leu Leu Arg Ala Leu Leu Ala
 305 310 315 320
 Gln Pro Gln Ala Leu Leu Leu Asp Glu Pro Phe Ser Arg Leu Asp Lys
 325 330 335
 Thr Leu Arg Ala Ser Phe Arg Ala Trp Val Phe Glu Val Thr Arg Gln
 340 345 350
 Arg Arg Ile Pro Val Val Leu Val Thr His Asp Glu Asp Asp Ile Pro
 355 360 365
 Pro Gly Gly Glu Val Ile Glu Ile Ser Arg Trp Gln
 370 375 380

<210> 9416

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 9416

Arg Pro Ala Leu Tyr Pro Ala Pro Arg Ser Ala Arg Pro Asp Ala Gly
 1 5 10 15
 Cys Trp His Gln Tyr Lys Met Arg Ser Gly Arg Ser Ala Arg Pro Ala
 20 25 30
 Ser Leu Val Ala Ile Ala Glu Pro Gly Ser Asn Ala Pro Cys Ala Ala
 35 40 45
 Pro Asp Ser Arg Gln Thr Ala Pro Pro Ala Arg Lys Asp Ala Ala Tyr
 50 55 60
 Ala Pro Thr Ser Glu Trp Gly Ser Ala Pro Arg Arg Ser Val Phe Ser
 65 70 75 80

Ala Trp Arg Arg Trp Gly
85

<210> 9417

<211> 622

<212> PRT

<213> Enterobacter cloacae

<400> 9417

Gly Glu Tyr Met Arg Thr Leu Trp Arg Ile Ile Ala Gly Phe Phe Lys
1 5 10 15
Trp Thr Trp Arg Leu Leu Asn Phe Val Arg Asn Leu Val Met Asn Ile
20 25 30
Phe Phe Ile Leu Leu Val Leu Val Cys Ala Gly Ile Trp Met His Ile
35 40 45
Ser Asn Ala Asn Gln Ser Gln His Ser Thr Arg Gly Ala Leu Leu Leu
50 55 60
Asp Ile Thr Gly Val Ile Val Asp Lys Pro Ser Thr Ser Asn Arg Leu
65 70 75 80
Gly Val Ile Gly Arg Gln Leu Phe Gly Ala Thr Ser Asp Arg Leu Gln
85 90 95
Glu Asn Ser Leu Phe Asp Ile Val Asp Thr Ile Arg Gln Ala Lys Asp
100 105 110
Asp Arg Asn Ile Thr Gly Ile Val Leu Asp Leu Lys Asp Phe Ala Gly
115 120 125
Ala Asp Gln Pro Ser Met Gln Tyr Ile Gly Lys Ala Leu Arg Glu Phe
130 135 140
Arg Asp Ser Gly Lys Pro Val Ile Ala Ile Gly Asp Ser Tyr Thr Gln
145 150 155 160
Gly Gln Tyr Tyr Leu Ala Ser Phe Ala Asn Lys Ile Trp Leu Ser Pro
165 170 175
Gln Gly Thr Val Asp Leu His Gly Phe Ala Thr Asn Gly Leu Tyr Tyr
180 185 190
Lys Ser Leu Leu Asp Lys Leu Lys Val Thr Thr His Val Phe Arg Val
195 200 205
Gly Thr Tyr Lys Ser Ala Val Glu Pro Phe Ile Arg Asp Asp Met Ser
210 215 220
Pro Ala Ala Arg Glu Ala Asp Ser Arg Trp Ile Gly Glu Leu Trp Gln
225 230 235 240
Asn Tyr Leu Gly Thr Ile Ala Ala Asn Arg Gln Ile Thr Ala Glu Gln
245 250 255
Val Phe Pro Gly Ala Arg Gly Val Leu Asp Gly Leu Arg Lys Val Asp
260 265 270
Gly Asp Thr Ala Lys Tyr Ala Leu Asp Asn Lys Leu Val Asp Gln Leu
275 280 285
Gly Ser Ser Ala Glu Ile Glu Lys Ala Leu Thr Lys Gln Phe Gly Trp
290 295 300
Ser Lys Glu Asp Lys Asn Tyr Ser Ala Ile Ser Met Tyr Asp Tyr Ala
305 310 315 320
Ala Lys Lys Ser Asp Asp Ser Gly Asp Ser Ile Ala Val Val Phe Ala
325 330 335
Asn Gly Ala Ile Met Asp Gly Glu Glu Thr Pro Gly Asn Val Gly Gly
340 345 350
Asp Thr Thr Ala Ser Gln Ile Arg Asp Ala Arg Leu Asp Pro Lys Val
355 360 365
Lys Ala Ile Val Leu Arg Val Asn Ser Pro Gly Gly Ser Val Ser Ala
370 375 380
Ser Glu Val Ile Arg Ala Glu Leu Ala Ala Ala Arg Ala Ala Gly Lys
385 390 395 400
Pro Val Val Val Ser Met Gly Gly Met Ala Ala Ser Gly Gly Tyr Trp
405 410 415

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Ile Ser Thr Pro Ala Asn Tyr Ile Val Ala Asn Pro Ser Thr Leu Thr
      420      425
Gly Ser Ile Gly Ile Phe Gly Val Ile Asn Thr Val Glu Asn Ser Leu
      435      440      445
Asp Tyr Leu Gly Val His Thr Asp Gly Val Ser Thr Ser Pro Leu Ala
      450      455      460
Asp Val Ser Val Thr Lys Ser Leu Pro Pro Glu Val Ser Glu Met Met
      465      470      475
Gln Leu Ser Ile Glu Ser Gly Tyr Lys Arg Phe Ile Thr Leu Val Ala
      485      490      495
Asp Ser Arg Lys Lys Thr Pro Asp Gln Ile Asp Gln Ile Ala Gln Gly
      500      505      510
His Val Trp Thr Gly Gln Asp Ala Lys Ser Asn Gly Leu Val Asp Ser
      515      520      525
Leu Gly Asp Phe Asp Asp Ala Val Lys Lys Ala Ala Glu Leu Ala Lys
      530      535      540
Leu Lys Gln Trp His Val Asp Tyr Tyr Gln Asp Glu Pro Thr Phe Phe
      545      550      555      560
Asp Met Val Met Asp Ser Met Ser Gly Ser Val Arg Ala Met Leu Pro
      565      570      575
Asp Ala Leu Gln Ala Tyr Leu Pro Ala Pro Val Ala Thr Ala Ala Lys
      580      585      590
Ala Met Lys Ala Glu Ser Asp Lys Leu Ala Ala Phe Asn Asp Pro Gln
      595      600      605
Ser Arg Tyr Ala Phe Cys Leu Thr Cys Ala Asn Val Arg
      610      615      620

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<210> 9418

<211> 525

<212> PRT

<213> *Enterobacter cloacae*

<400> 9418

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Pro Met Ser Gln Gln Val Val Ile Phe Asp Thr Thr Leu Arg Asp Gly
1      5      10      15
Glu Gln Ala Leu Gln Ala Ser Leu Ser Val Lys Glu Lys Leu Gln Ile
      20      25      30
Ala Leu Ala Leu Glu Arg Met Gly Val Asp Val Met Glu Val Gly Phe
      35      40      45
Pro Val Ser Ser Pro Gly Asp Phe Glu Ser Val Gln Thr Ile Ala Arg
      50      55      60
Thr Ile Lys Asn Ser Arg Val Cys Gly Leu Ala Arg Cys Val Glu Lys
      65      70      75      80
Asp Ile Asp Val Ala Ala Glu Ser Leu Lys Val Ala Glu Ala Phe Arg
      85      90      95
Ile His Thr Phe Ile Ala Thr Ser Pro Met His Ile Ala Thr Lys Leu
      100      105      110
Arg Ser Thr Leu Asp Glu Val Ile Glu Arg Ala Val Tyr Met Val Lys
      115      120      125
Arg Ala Arg Asn Tyr Thr Asp Asp Val Glu Phe Ser Cys Glu Asp Ala
      130      135      140
Gly Arg Thr Pro Ile Asp Asp Leu Ala Arg Val Val Glu Ala Ala Ile
      145      150      155      160
Asn Ala Gly Ala Arg Thr Ile Asn Ile Pro Asp Thr Val Gly Tyr Thr
      165      170      175
Met Pro Phe Glu Phe Ser Asn Ile Ile Thr Gly Leu Tyr Asp Arg Val
      180      185      190
Pro Asn Ile Asp Lys Ala Ile Ile Ser Val His Thr His Asp Asp Leu
      195      200      205
Gly Leu Ala Val Gly Asn Ala Ile Ala Ala Val His Ala Gly Ala Arg
      210      215      220

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Gln Val Glu Gly Ala Met Asn Gly Ile Gly Glu Arg Ala Gly Asn Cys
 225 230 235
 Ser Leu Glu Glu Val Ile Met Ala Ile Lys Val Arg Lys Asp Ile Met
 245 250 255
 Asn Val His Thr Arg Ile Asn His Asn Glu Ile Trp Arg Thr Ser Gln
 260 265 270
 Thr Val Ser Gln Ile Cys Asn Met Pro Ile Pro Ala Asn Lys Ala Ile
 275 280 285
 Val Gly Ala Gly Ala Phe Ala His Ser Ser Gly Ile His Gln Asp Gly
 290 295 300
 Val Leu Lys Asn Arg Glu Asn Tyr Glu Ile Met Thr Pro Glu Ser Ile
 305 310 315 320
 Gly Leu Asn Gln Val Gln Leu Asn Leu Thr Ser Arg Ser Gly Arg Ala
 325 330 335
 Ala Val Lys His Arg Met Glu Glu Met Gly Tyr Lys Asp Ser Asp Tyr
 340 345 350
 Asn Met Asp Gln Leu Tyr Asp Ala Phe Leu Lys Leu Ala Asp Lys Lys
 355 360 365
 Gly Gln Val Phe Asp Tyr Asp Leu Glu Ala Leu Ala Phe Ile Asn Lys
 370 375 380
 Gln Gln Glu Glu Pro Glu His Phe Arg Leu Asp Tyr Phe Thr Val Gln
 385 390 395 400
 Ser Gly Ser Ser Asp Ile Ala Thr Ala Ser Val Lys Leu Ala Cys Gly
 405 410 415
 Asp Glu Ile Lys Ala Glu Ala Ala Asn Gly Asn Gly Pro Val Asp Ala
 420 425 430
 Ile Tyr Gln Ala Ile Asn Arg Val Thr Glu Tyr Asp Val Glu Leu Val
 435 440 445
 Lys Tyr Asp Leu Thr Ala Lys Gly His Gly Lys Asp Ala Leu Gly Gln
 450 455 460
 Val Asp Ile Val Val Asn Tyr Asn Gly Arg Arg Phe His Gly Val Gly
 465 470 475 480
 Leu Ala Thr Asp Ile Val Glu Ser Ser Ala Lys Ala Met Val His Val
 485 490 495
 Leu Asn Asn Ile Trp Arg Ala Ala Glu Val Glu Lys Glu Leu Gln Arg
 500 505 510
 Lys Ala Gln Asn Lys Glu Asn Asn Lys Glu Thr Val
 515 520 525

<210> 9419

<211> 507

<212> PRT

<213> Enterobacter cloacae

<400> 9419

His Ile Lys Asp Thr Ile Met Thr Ile Phe Asn Asn Tyr Glu Val Trp
 1 5 10 15
 Phe Val Ile Gly Ser Gln His Leu Tyr Gly Pro Glu Ala Leu Gln Gln
 20 25 30
 Val Thr Lys His Ala Glu His Val Val Asn Ala Leu Asn Ala Glu Ala
 35 40 45
 Lys Leu Pro Cys Lys Leu Val Leu Lys Pro Leu Gly Thr Thr Pro Asp
 50 55 60
 Glu Ile Thr Asn Ile Cys Arg Asp Ala Asn Tyr Asp Asp Lys Cys Ala
 65 70 75 80
 Gly Leu Val Val Trp Leu His Thr Phe Ser Pro Ala Lys Met Trp Ile
 85 90 95
 Asn Gly Leu Ala Ile Leu Asn Lys Pro Leu Leu Gln Phe His Thr Gln
 100 105 110
 Phe Asn Ala Ser Leu Pro Trp Asp Ser Ile Asp Met Asp Phe Met Asn
 115 120 125

Leu Asn Gln Thr Ala His Gly Gly Arg Glu Phe Gly Phe Ile Gly Ala
 130 135 140
 Arg Met Arg Gln Gln His Ala Val Val Thr Gly His Trp Gln Asp Gly
 145 150 155 160
 Gln Ala Gln Lys Arg Ile Gly Ser Trp Met Arg Gln Ala Val Ser Lys
 165 170 175
 Gln Asp Thr Arg His Leu Lys Val Val Arg Phe Gly Asp Asn Met Arg
 180 185 190
 Glu Val Ala Val Thr Asp Gly Asp Lys Val Ala Ala Gln Ile Lys Phe
 195 200 205
 Gly Phe Ser Val Asn Thr Trp Ala Val Gly Asp Leu Val Gln Val Val
 210 215 220
 Asn Asp Ile Ser Asp Gly Asp Val Asn Ala Leu Val Asp Glu Tyr Glu
 225 230 235 240
 Ser Ser Tyr Arg Leu Thr Pro Ala Ala Gln Ile Asn Gly Asp Lys Arg
 245 250 255
 Gln Asn Val Leu Asp Ala Ala Arg Ile Glu Leu Gly Met Lys Arg Phe
 260 265 270
 Leu Glu Gln Gly Gly Phe His Ala Phe Thr Thr Thr Phe Glu Asp Leu
 275 280 285
 His Gly Leu Lys Gln Leu Pro Gly Leu Ala Val Gln Arg Leu Met Gln
 290 295 300
 Gln Gly Tyr Gly Phe Ala Gly Glu Gly Asp Trp Lys Thr Ala Ala Leu
 305 310 315 320
 Leu Arg Ile Met Lys Val Met Ser Thr Gly Leu Gln Gly Gly Thr Ser
 325 330 335
 Phe Met Glu Asp Tyr Thr Tyr His Phe Glu Asn Gly Asn Asp Leu Val
 340 345 350
 Leu Gly Ser His Met Leu Glu Val Cys Pro Ser Ile Ala Val Glu Glu
 355 360 365
 Lys Pro Ile Leu Asp Val Gln Tyr Leu Gly Ile Gly Lys Ala Asp
 370 375 380
 Pro Ala Arg Leu Ile Phe Asn Thr Arg Thr Gly Pro Ala Ile Asn Ala
 385 390 395 400
 Ser Leu Ile Asp Leu Gly Asp Arg Phe Arg Leu Leu Val Asn Cys Val
 405 410 415
 Asp Ala Val Glu Thr Pro His Ser Leu Pro Lys Leu Pro Val Ala Asn
 420 425 430
 Ala Leu Trp Lys Ala Gln Pro Asp Leu Pro Thr Ala Ser Glu Ala Trp
 435 440 445
 Ile Leu Ala Gly Gly Ala His His Thr Val Phe Ser His Ala Leu Asp
 450 455 460
 Leu Asn Asp Met Arg Gln Phe Ala Glu Leu His Asp Ile Glu Leu Thr
 465 470 475 480
 Val Ile Asp Asn Asp Thr Arg Leu Pro Ala Phe Lys Asp Ala Leu Arg
 485 490 495
 Trp Asn Glu Val Tyr Tyr Gly Ser Lys Arg
 500 505

<210> 9420

<211> 973

<212> PRT

<213> Enterobacter cloacae

<400> 9420

Ser Arg Thr Thr Met Pro Phe Thr Leu Gly Gln Arg Trp Ile Ser Asp
 1 5 10 15
 Thr Glu Ser Glu Leu Gly Leu Gly Thr Val Val Ala Val Asp Ala Arg
 20 25 30
 Met Val Thr Phe Leu Phe Pro Ala Thr Gly Glu Asn Arg Leu Tyr Ala
 35 40 45

Arg Asn Asp Ser Pro Val Thr Arg Val Met Phe Asn Pro Gly Asp Thr
 50 55 60
 Val Thr Ser Ser His Glu Gly Trp Gln Leu Lys Val Glu Asp Val Lys Glu
 65 70 75 80
 Glu Asn Gly Leu Leu Ala Tyr Ile Gly Thr Arg Leu Asp Thr Asp Glu
 85 90 95
 Thr Asn Val Ile Leu Arg Glu Val Leu Leu Asp Ser Lys Leu Val Phe
 100 105 110
 Ser Lys Pro Gln Asp Arg Leu Phe Ala Gly Gln Ile Asp Arg Met Asp
 115 120 125
 Arg Phe Ser Leu Arg Tyr Arg Ala Arg Lys Phe Gln Ser Glu Gln Tyr
 130 135 140
 Arg Met Pro Trp Ser Gly Leu Arg Gly Gln Arg Thr Ser Leu Ile Pro
 145 150 155 160
 His Gln Leu Asn Ile Ala His Asp Val Gly Arg Arg His Ala Pro Arg
 165 170 175
 Val Leu Leu Ala Asp Glu Val Gly Leu Gly Lys Thr Ile Glu Ala Gly
 180 185 190
 Met Ile Leu His Gln Gln Leu Leu Ser Gly Ala Ala Glu Arg Val Leu
 195 200 205
 Ile Val Val Pro Glu Thr Leu Gln His Gln Trp Leu Val Glu Met Leu
 210 215 220
 Arg Arg Phe Asn Leu Arg Phe Ser Leu Phe Asp Asp Glu Arg Tyr Ala
 225 230 235 240
 Glu Ala Gln His Asp Ala Asp Asn Pro Phe Glu Thr Glu Gln Leu Val
 245 250 255
 Ile Cys Ser Leu Asp Phe Val Arg Arg Ser Lys Gln Arg Leu Glu His
 260 265 270
 Leu Cys Asp Ala Glu Trp Asp Leu Met Val Val Asp Glu Ala His His
 275 280 285
 Leu Val Trp Ser Glu Asp Ala Pro Ser Arg Glu Tyr Met Ala Ile Glu
 290 295 300
 Gln Leu Ala Glu Arg Val Pro Gly Val Leu Leu Leu Thr Ala Thr Pro
 305 310 315 320
 Glu Gln Leu Gly Leu Glu Ser His Phe Ala Arg Leu Arg Leu Leu Asp
 325 330 335
 Pro Asn Arg Phe His Asp Phe Glu Gln Phe Val Glu Glu Gln Lys Asn
 340 345 350
 Tyr Arg Pro Val Ala Asp Ala Val Ala Leu Leu Leu Ala Gly Asn Arg
 355 360 365
 Leu Ser Asn Asp Glu Leu Asn Thr Leu Ser Asp Leu Ile Gly Glu Gln
 370 375 380
 Asp Ile Glu Pro Leu Leu Gln Ala Ala Asn Ser Asp Ser Asp Asn Ala
 385 390 395 400
 Gly Ser Ala Arg Lys Glu Leu Ile Asp Met Leu Met Asp Arg His Gly
 405 410 415
 Thr Ser Arg Val Leu Phe Arg Asn Thr Arg Asn Gly Val Lys Gly Phe
 420 425 430
 Pro Lys Arg Glu Leu His Thr Ile Lys Leu Pro Leu Pro Thr Gln Tyr
 435 440 445
 Gln Thr Ala Ile Lys Val Ser Gly Ile Met Gly Thr Arg Lys Ser Ala
 450 455 460
 Glu Asp Arg Ala Arg Asp Met Leu Tyr Pro Glu Gln Ile Tyr Gln Glu
 465 470 475 480
 Phe Glu Gly Asp Thr Gly Thr Trp Trp Asn Phe Asp Pro Arg Val Glu
 485 490 495
 Trp Leu Met Gly Tyr Leu Thr Ala His Arg Ser Arg Lys Val Leu Val
 500 505 510
 Ile Cys Ala Lys Ala Ala Thr Ala Leu Gln Leu Glu Gln Val Leu Arg
 515 520 525
 Glu Arg Glu Gly Ile Arg Ala Ala Val Phe His Glu Gly Met Ser Ile

530	535	540
Ile Glu Arg Asp Arg Ala Ala Trp Phe Ser Glu Glu Asp Ser Gly		
545	550	555
Ala Gln Val Leu Leu Cys Ser Glu Ile Gly Ser Glu Gly Arg Asn Phe		560
	565	570
Gln Phe Ala Ser Asn Leu Val Met Phe Asp Leu Pro Phe Asn Pro Asp		575
	580	585
Leu Leu Glu Gln Arg Ile Gly Arg Leu Asp Arg Ile Gly Gln Ala His		590
	595	600
Asp Ile Gln Ile His Val Pro Tyr Leu Glu Lys Thr Ala Gln Ser Val		605
	610	615
Leu Val Arg Trp Tyr His Glu Gly Leu Asp Ala Phe Glu His Thr Cys		620
	625	630
Pro Thr Gly Arg Thr Ile Tyr Asp Gln Val His Ala Asp Leu Ile Gly		635
	645	650
Tyr Leu Ala Ala Pro Glu Asn Thr Glu Gly Phe Asp Glu Leu Ile Lys		655
	660	665
Ser Cys Arg Glu Lys His Asp Ala Leu Lys Ala Gln Leu Glu Gln Gly		670
	675	680
Arg Asp Arg Leu Leu Glu Ile His Ser Asn Gly Gly Glu Lys Ala Gln		685
	690	695
Gln Leu Ala Glu Ser Ile Glu Glu Gln Asp Asp Asp Thr Ser Leu Ile		700
	705	710
Ser Phe Ser Met Asn Leu Phe Asp Ile Val Gly Ile Asn Gln Asp Asp		715
	725	730
Arg Gly Glu Asn Met Ile Val Leu Thr Pro Ser Asp His Met Leu Val		735
	740	745
Pro Asp Phe Pro Gly Leu Pro Glu Asp Gly Cys Thr Ile Thr Phe Glu		750
	755	760
Arg Asp Val Ala Leu Ser Arg Glu Asp Ala Gln Phe Ile Thr Trp Glu		765
	775	780
His Pro Leu Ile Arg Asn Gly Leu Asp Leu Ile Leu Ser Gly Asp Thr		785
	790	795
Gly Ser Ser Thr Ile Ser Leu Leu Lys Asn Lys Ala Leu Pro Val Gly		800
	805	810
Thr Leu Leu Val Glu Leu Ile Tyr Val Val Glu Ala Gln Ala Pro Lys		815
	820	825
Gln Leu Gln Leu Asn Arg Phe Leu Pro Pro Thr Pro Val Arg Leu Leu		830
	835	840
Leu Asp Lys Asn Gly Thr Asn Leu Ala Gly Gln Val Glu Phe Glu Ser		845
	850	855
Phe Asn Arg Gln Leu Ser Ala Val Asn Arg His Thr Gly Ser Lys Leu		860
	865	870
Val Asn Ala Val Gln Gln Asp Val His Ala Ile Leu Gln Leu Gly Glu		875
	885	890
Ala Gln Ala Glu Lys Ala Ala Arg Glu Leu Ile Asp Ala Ala Arg Ser		895
	900	905
Glu Ala Asp Glu Lys Leu Ser Ala Glu Leu Ser Arg Leu Glu Ala Leu		910
	915	920
Lys Ala Val Asn Pro Asn Ile Arg Asp Asp Glu Leu Ala Ala Ile Glu		925
	930	935
Ser Asn Arg Gln Gln Val Leu Glu Ser Leu Asn Gln Ala Gly Trp Arg		940
	945	950
Leu Asp Ala Leu Arg Leu Ile Val Val Thr His Gln		955
	965	970

<210> 9421

<211> 167

<212> PRT

<213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(157)

<220>
 <221>UNSURE
 <222>(167)

<400> 9421

```

Ala Glu Arg Lys Met Val Met Glu Pro Tyr Asn Pro Pro Met Asp Pro
1      5      10
Trp Leu Val Ile Leu Tyr Gln Asp Glu His Ile Met Val Val Asn Lys
      20      25      30
Pro Ser Gly Leu Leu Ser Val Pro Gly Arg Leu Glu Glu His Lys Asp
      35      40      45
Ser Val Met Thr Arg Ile Gln Arg Asp Tyr Pro Gln Ala Glu Ser Val
      50      55      60
His Arg Leu Asp Met Ala Thr Ser Gly Val Ile Val Val Ala Leu Asn
65      70      75      80
Lys Ala Ala Glu Arg Glu Leu Lys Arg Gln Phe Arg Glu Arg Glu Pro
      85      90      95
Lys Lys Gln Tyr Val Ala Arg Val Trp Gly His Pro Ala Gln Ala Glu
      100      105      110
Gly Leu Val Asp Leu Pro Leu Ile Cys Asp Trp Pro Asn Arg Pro Lys
      115      120      125
Gln Lys Val Cys Tyr Glu Thr Gly Lys Ala Ala Gln Thr Glu Tyr Glu
      130      135      140
Val Leu Glu Tyr Ala Arg His Asn Val Phe Ile Thr Xaa Arg Gln Ile
145      150      155      160
Arg His Asn Leu Thr Gln Xaa
      165

```

<210> 9422
 <211> 471
 <212> PRT
 <213> Enterobacter cloacae

<400> 9422

```

Arg Gly Val Ile Met Ala Lys Thr Leu Tyr Glu Lys Leu Phe Asp Ala
1      5      10      15
His Val Val Tyr Glu Ala Pro Asn Glu Thr Pro Leu Leu Tyr Ile Asp
      20      25      30
Arg His Leu Val His Glu Val Thr Ser Pro Gln Ala Phe Asp Gly Leu
      35      40      45
Arg Ala His Lys Arg Pro Val Arg Gln Pro Gly Lys Thr Phe Ala Thr
      50      55      60
Met Asp His Asn Val Ser Thr Gln Thr Lys Asp Ile Asn Ala Ser Gly
65      70      75      80
Glu Met Ala Arg Ile Gln Met Gln Glu Leu Ile Lys Asn Cys Asn Glu
      85      90      95
Phe Gly Val Glu Leu Tyr Asp Leu Asn His Pro Tyr Gln Gly Ile Val
      100      105      110
His Val Met Gly Pro Glu Gln Gly Ile Thr Leu Pro Gly Met Thr Ile
      115      120      125
Val Cys Gly Asp Ser His Thr Ala Thr His Gly Ala Phe Gly Ala Leu
      130      135      140
Ala Phe Gly Ile Gly Thr Ser Glu Val Glu His Val Leu Ala Thr Gln
145      150      155      160
Thr Leu Lys Gln Gly Arg Ala Lys Thr Met Lys Ile Glu Val Lys Gly
      165      170      175
Lys Ala Ala Pro Gly Ile Thr Ala Lys Asp Ile Val Leu Ala Ile Ile

```

180 185 190
 Gly Lys Thr Gly Ser Ala Gly Gly Thr Gly His Val Val Glu Phe Cys
 195 200 205
 Gly Asp Ala Ile Gln Ala Leu Ser Met Glu Gly Arg Met Thr Leu Cys
 210 215 220
 Asn Met Ala Ile Glu Met Gly Ala Lys Ala Gly Leu Val Ala Pro Asp
 225 230 235 240
 Glu Thr Thr Phe Asn Tyr Val Lys Gly Arg Leu His Ala Pro Lys Gly
 245 250 255
 Gln Asn Phe Asp Asp Ala Val Ala Tyr Trp Lys Thr Leu Lys Thr Asp
 260 265 270
 Glu Gly Ala Ile Phe Asp Thr Val Val Thr Leu Gln Ala Glu Glu Ile
 275 280 285
 Ala Pro Gln Val Thr Trp Gly Thr Asn Pro Gly Gln Val Ile Ser Val
 290 295 300
 Asn Asp Ser Ile Pro Asp Pro Ala Ser Phe Ala Asp Pro Val Glu Arg
 305 310 315 320
 Ala Ser Ala Glu Lys Ala Leu Ala Tyr Met Gly Leu Lys Pro Gly Val
 325 330 335
 Pro Leu Thr Asp Val Ser Ile Asp Lys Val Phe Ile Gly Ser Cys Thr
 340 345 350
 Asn Ser Arg Ile Glu Asp Leu Arg Ala Ala Glu Ile Ala Lys Gly
 355 360 365
 Arg Lys Val Ala Pro Gly Val Gln Ala Leu Val Val Pro Gly Ser Gly
 370 375 380
 Pro Val Lys Ala Gln Ala Glu Ala Glu Gly Leu Asp Lys Ile Phe Ile
 385 390 395 400
 Glu Ala Gly Phe Glu Trp Arg Leu Pro Gly Cys Ser Met Cys Leu Ala
 405 410 415
 Met Asn Asn Asp Arg Leu Asn Pro Gly Glu Arg Cys Ala Ser Thr Ser
 420 425 430
 Asn Arg Asn Phe Glu Gly Arg Gln Gly Arg Gly Gly Arg Thr His Leu
 435 440 445
 Val Ser Pro Ala Met Ala Ala Ala Val Thr Gly His Phe Ala
 450 455 460
 Asp Ile Arg Ser Leu Lys
 465 470

<210> 9423

<211> 537

<212> PRT

<213> *Enterobacter cloacae*

<400> 9423

Met Ala Thr Arg Arg Gln Pro Leu Ile Pro Gly Trp Leu Val Pro Gly
 1 5 10 15
 Leu Leu Ala Ala Val Leu Met Val Val Val Ser Leu Gly Ala Phe Leu
 20 25 30
 Ala Leu Trp Phe Asn Ala Pro Glu Ser Asp Leu Leu Ala Leu Trp His
 35 40 45
 Asp Ser Tyr Leu Trp His Val Ile Arg Phe Ser Phe Trp Gln Ala Phe
 50 55 60
 Leu Ser Ala Leu Leu Ser Ala Ile Pro Ala Ile Phe Leu Ala Arg Ala
 65 70 75 80
 Leu Tyr Arg Arg Arg Phe Pro Gly Arg Leu Ala Leu Leu Arg Leu Cys
 85 90 95
 Ala Met Thr Leu Ile Leu Pro Val Leu Val Ala Val Phe Gly Ile Leu
 100 105 110
 Ser Val Tyr Gly Arg Gln Gly Trp Leu Ala Ser Leu Phe Asn Leu Leu
 115 120 125
 Gly Leu Glu Trp Thr Phe Ser Pro Tyr Gly Leu Lys Gly Ile Leu Leu

130 135 140
 Ala His Ile Phe Phe Asn Met Pro Met Ala Thr Arg Leu Phe Leu Gln
 145 150 155 160
 Ala Leu Glu Asn Ile Pro Gly Glu Gln Arg Gln Ile Ala Ala Gln Leu
 165 170 175
 Gly Met Arg Gly Trp Ser Phe Phe Arg Phe Val Glu Trp Pro Trp Leu
 180 185 190
 Arg Arg Gln Ile Ala Pro Val Ala Ala Leu Ile Phe Met Leu Cys Phe
 195 200 205
 Ala Ser Phe Ala Thr Val Leu Ser Leu Gly Gly Gly Pro Gln Ala Thr
 210 215 220
 Thr Ile Glu Leu Ala Ile Tyr Gln Ala Leu Ser Tyr Asp Tyr Asp Pro
 225 230 235 240
 Gly Arg Ala Ala Leu Leu Ala Ile Val Gln Met Val Cys Cys Leu Ala
 245 250 255
 Leu Val Leu Leu Ser Gln Arg Leu Ser Lys Ala Ile Pro Thr Gly Ser
 260 265 270
 Asn Asn Leu Thr Gly Trp Arg Asp Pro Gln Asp Ser Leu His Ser Arg
 275 280 285
 Val Ala Asp Phe Met Leu Ile Ala Leu Ala Leu Leu Leu Leu Pro
 290 295 300
 Pro Leu Leu Ala Val Ile Val Asp Gly Leu Asn Arg Asn Val Leu Ser
 305 310 315 320
 Val Leu Gln Gln Pro Val Leu Trp Gln Ala Thr Trp Thr Ser Leu Arg
 325 330 335
 Ile Ala Leu Ala Ala Gly Leu Leu Cys Val Ile Leu Thr Met Met Leu
 340 345 350
 Leu Trp Ser Ser Arg Glu Leu His Ala Arg His Ala Arg Lys Ala Gly
 355 360 365
 His Ala Leu Glu Leu Thr Gly Met Leu Ile Leu Ala Met Pro Gly Ile
 370 375 380
 Val Leu Ala Thr Gly Phe Phe Leu Leu Phe Asn Ser Thr Ile Gly Leu
 385 390 395 400
 Pro Glu Ser Ala Asp Gly Ile Val Ile Phe Thr Asn Ala Leu Met Ala
 405 410 415
 Ile Pro Tyr Ala Leu Lys Val Leu Glu Asn Pro Met Arg Asp Val Asn
 420 425 430
 Ser Arg Tyr Ser Leu Leu Cys Gln Ser Leu Gly Met Gln Gly Trp Gln
 435 440 445
 Arg Leu Lys Val Val Glu Leu Arg Ala Leu Lys Arg Pro Leu Ala Gln
 450 455 460
 Ala Leu Ala Phe Ala Cys Val Leu Ser Ile Gly Asp Phe Gly Val Val
 465 470 475 480
 Ala Leu Phe Gly Asn Glu Asp Phe Arg Thr Leu Pro Phe Trp Leu Tyr
 485 490 495
 Gln Gln Ile Gly Ser Tyr Arg Ser Gln Asp Gly Ala Val Thr Ala Leu
 500 505 510
 Leu Leu Leu Leu Leu Cys Phe Ala Leu Phe Thr Val Ile Glu Lys Leu
 515 520 525
 Pro Gly Arg Asp Val Lys Thr Asp
 530 535

<210> 9424

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 9424

Arg Glu Gln Gln Gly Asn Arg Val Met Ser Lys Asn Tyr His Ile Ala
 1 5 10 15
 Val Leu Pro Gly Asp Gly Ile Gly Pro Glu Val Met Ala Gln Ala Leu

```

                20                25                30
Lys Val Leu Glu Ala Val Arg Ser Arg Phe Ala Met Lys Ile Thr Thr
    35                40                45
Ser His Tyr Asp Val Gly Gly Ile Ala Ile Asp Asn His Gly Thr Pro
    50                55                60
Leu Pro Lys Gly Thr Val Glu Gly Cys Glu Asn Ala Asp Ala Val Leu
    65                70                75                80
Phe Gly Ser Val Gly Gly Pro Lys Trp Glu His Leu Pro Pro Ala Glu
    85                90                95
Gln Pro Glu Arg Gly Ala Leu Leu Pro Leu Arg Lys His Phe Lys Leu
    100                105                110
Phe Ser Asn Leu Arg Pro Ala Lys Leu Tyr Pro Gly Leu Glu Glu Phe
    115                120                125
Cys Pro Leu Arg Ala Asp Ile Ala Ala Asn Gly Phe Asp Ile Leu Cys
    130                135                140
Val Arg Glu Leu Thr Gly Gly Ile Tyr Phe Gly Gln Pro Lys Gly Arg
    145                150                155                160
Glu Gly Ser Gly Gln His Glu Lys Ala Phe Asp Thr Glu Val Tyr His
    165                170                175
Arg Phe Glu Ile Glu Arg Ile Ala His Ile Ala Phe Glu Ser Ala Arg
    180                185                190
Lys Arg Arg Arg Lys Val Thr Ser Ile Asp Lys Ala Asn Val Leu Gln
    195                200                205
Ser Ser Ile Leu Trp Arg Glu Ile Val Ser Glu Val Ala Lys Gln Tyr
    210                215                220
Pro Asp Val Ala Leu Ser His Met Tyr Ile Asp Asn Ala Thr Met Gln
    225                230                235                240
Leu Ile Lys Asp Pro Ser Gln Phe Asp Val Leu Leu Cys Ser Asn Leu
    245                250                255
Phe Gly Asp Ile Leu Ser Asp Glu Cys Ala Met Ile Thr Gly Ser Met
    260                265                270
Gly Met Leu Pro Ser Ala Ser Leu Asn Glu Glu Gly Phe Gly Leu Tyr
    275                280                285
Glu Pro Ala Gly Gly Ser Ala Pro Asp Ile Ala Gly Lys Asn Ile Ala
    290                295                300
Asn Pro Ile Ala Gln Ile Leu Ser Leu Ala Leu Leu Leu Arg Tyr Ser
    305                310                315                320
Leu Asp Ala Gly Asp Ala Ala Thr Ala Ile Glu Asn Ala Ile Asn Arg
    325                330                335
Ala Leu Glu Glu Gly Val Arg Thr Gly Asp Leu Ala Arg Gly Thr Ala
    340                345                350
Ala Val Ser Thr Asp Glu Met Gly Asp Ile Ile Ala Arg Tyr Val Ala
    355                360                365
Glu Gly Val
    370

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<210> 9425

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 9425

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Asn Lys Glu Thr Ile Met Ala Glu Lys Phe Thr Gln His Thr Gly Arg
1      5      10
Val Val Pro Leu Asp Ala Ala Asn Val Asp Thr Asp Ala Ile Pro
    20      25      30
Lys Gln Phe Leu Gln Lys Val Thr Arg Thr Gly Phe Gly Ala His Leu
    35      40      45
Phe Asn Asp Trp Arg Phe Leu Asp Asp Lys Gly Glu Val Pro Asn Pro
    50      55      60
Glu Phe Val Leu Asn Phe Pro Glu Tyr Lys Gly Ala Ser Ile Leu Leu

```

65				70				75				80			
Ala	Arg	Glu	Asn	Phe	Gly	Cys	Gly	Ser	Ser	Arg	Glu	His	Ala	Pro	Trp
				85				90						95	
Ala	Leu	Thr	Asp	Tyr	Gly	Phe	Lys	Val	Val	Ile	Ala	Pro	Ser	Phe	Ala
			100					105						110	
Asp	Ile	Phe	Tyr	Gly	Asn	Ser	Phe	Asn	Asn	Gln	Leu	Leu	Pro	Val	Thr
			115					120						125	
Leu	Ser	Asp	Glu	Gln	Val	Asp	Glu	Leu	Phe	Ala	Leu	Val	Gln	Ala	Asn
			130				135					140			
Pro	Gly	Ile	Ser	Phe	Glu	Val	Asp	Leu	Glu	Ala	Glu	Val	Val	Lys	Ala
			145			150				155				160	
Gly	Asp	Lys	Thr	Tyr	Ser	Phe	Ser	Ile	Asp	Ala	Phe	Arg	Arg	His	Cys
				165				170						175	
Met	Leu	Asn	Gly	Leu	Asp	Ser	Ile	Gly	Leu	Thr	Leu	Gln	His	Glu	Glu
			180					185						190	
Ala	Ile	Ala	Ala	Tyr	Glu	Lys	Lys	Gln	Pro	Ala	Phe	Met	Gly		
			195				200					205			

<210> 9426

<211> 560

<212> PRT

<213> Enterobacter cloacae

<400> 9426

Phe	Phe	Val	Arg	Ser	Ser	Pro	Phe	Met	Pro	Ser	Gly	Arg	Leu	Gln	Gln
1				5				10						15	
Gln	Phe	Ile	Arg	Leu	Trp	Gln	Cys	Cys	Glu	Gln	Ser	Gln	Glu	Thr	
			20					25				30			
Thr	Leu	Asn	Glu	Leu	Ala	Glu	Leu	Leu	Asn	Cys	Ser	Arg	Arg	His	Met
		35				40						45			
Arg	Thr	Leu	Leu	Asn	Thr	Met	Gln	Gln	Gln	Gly	Trp	Leu	Asn	Trp	Glu
		50				55					60				
Ala	Glu	Ala	Gly	Arg	Gly	Lys	Arg	Ser	Arg	Leu	Thr	Phe	Leu	Tyr	Thr
		65				70				75				80	
Gly	Leu	Ala	Leu	Gln	Gln	Gln	Arg	Ala	Glu	Asp	Leu	Leu	Glu	Gln	Asp
			85					90						95	
Arg	Ile	Asp	Gln	Leu	Val	Gln	Leu	Val	Gly	Asp	Lys	Ala	Ala	Val	Arg
			100					105					110		
Gln	Met	Leu	Val	Ser	His	Leu	Gly	Arg	Ser	Phe	Arg	Gln	Gly	Arg	His
		115					120					125			
Ile	Leu	Arg	Val	Leu	Tyr	Tyr	Arg	Pro	Met	Lys	Asn	Leu	Leu	Pro	Gly
		130				135					140				
Thr	Ala	Leu	Arg	Arg	Ser	Glu	Thr	His	Met	Ala	Arg	Gln	Ile	Phe	Ser
		145			150					155				160	
Gly	Leu	Thr	Arg	Ile	Asn	Glu	Glu	Asn	Gly	Glu	Leu	Glu	Ala	Asp	Ile
			165					170						175	
Ala	His	His	Trp	Gln	Gln	Leu	Ser	Pro	Arg	His	Trp	Arg	Phe	Phe	Leu
			180					185					190		
Arg	Pro	Gly	Ile	His	Phe	His	His	Gly	Arg	Glu	Leu	Glu	Met	Arg	Asp
		195					200					205			
Val	Ile	Asp	Ser	Leu	Glu	Arg	Ala	Arg	Thr	Leu	Pro	Leu	Tyr	Ser	His
		210				215					220				
Ile	Ala	Arg	Ile	His	Ser	Pro	Thr	Ala	Trp	Thr	Leu	Asp	Ile	Glu	Leu
		225			230					235				240	
Ser	Gln	Pro	Asp	Lys	Trp	Leu	Pro	Trp	Leu	Leu	Gly	Tyr	Val	Pro	Ser
			245					250						255	
Met	Ile	Leu	Pro	Ala	Glu	Trp	Arg	Ser	Leu	Asn	Asn	Phe	Ser	Ser	Gln
		260						265				270			
Pro	Ile	Gly	Thr	Gly	Pro	Tyr	Ser	Val	Thr	Arg	Asn	Asn	Ser	Asn	Gln
		275				280						285			
Leu	Lys	Ile	Arg	Ala	Phe	Asp	Asp	Tyr	Phe	Gly	Tyr	Arg	Ala	Leu	Ile

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290          295          300
Asp Glu Val Asn Val Trp Val Leu Pro Asp Leu Asn Glu Glu Leu Ser
305          310          315
Ala Gly Leu Thr Leu Glu Gly Pro Thr Ala Gly Glu Lys Ala Phe Glu
          325          330          335
Ser Arg Leu Glu Glu Gly Cys Tyr Tyr Leu Leu Phe Asp Ser Arg Ser
          340          345          350
His Arg Gly Ala Asn His Asp Val Arg Arg Trp Ile Ser His Ile Leu
          355          360          365
Ala Pro Ala Asn Leu Ile Tyr His Ala Glu Glu Gln Tyr Gln Thr Trp
          370          375          380
Trp Phe Pro Ala Tyr Gly Leu Leu Pro Arg Trp His His Ala Gln Pro
385          390          395
Val Arg Ser Glu Lys Pro Ala Gly Leu Glu Thr Ile Thr Leu Ser Tyr
          400          405          410          415
Tyr Arg Asp His Ile Glu His Arg Phe Ile Ala Arg Ile Met Ser Thr
          420          425          430          435
Leu Leu Ala Ala Glu Gly Val Thr Leu Ala Ile Gln Glu Val Asp Tyr
          440          445          450
Asp Glu Trp His Arg Gly Asp Val Ile Ser Asp Ile Trp Leu Asn Ser
450          455          460
Ala Asn Phe Thr Leu Pro Leu Asp Phe Ser Leu Phe Ser His Leu Tyr
465          470          475
Glu Val Pro Leu Ile Gln His Cys Ile Asn Arg Asp Trp Gln Gln Asp
          480          485          490          495
Ala Ala Arg Trp Arg Ala Gly Glu Met Asp Leu Ala Ala Trp Cys Gln
          500          505          510
Glu Leu Leu Ala Gly Gln Thr Ile Val Pro Leu Ile His His Trp Leu
          515          520          525
Leu Ile Gln Gly Gln Arg Ser Met Arg Gly Leu Arg Met Asn Thr Leu
          530          535          540
Gly Trp Phe Asp Phe Lys Ser Ala Trp Phe Ala Pro Pro Glu Pro
545          550          555          560

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<210> 9427

<211> 349

<212> PRT

<213> Enterobacter cloacae

<400> 9427

```

Arg Arg Arg Arg Asp Leu Arg Leu Ser Leu Lys Ile Leu Cys His Ser
1          5          10          15
Thr Leu Arg Cys Lys Val Leu Lys Asn Val Leu Pro Leu Leu Ala Leu
          20          25          30
Phe Ala Leu Pro Val Phe Ala Lys Pro Val Leu Thr Val Tyr Thr Tyr
          35          40          45
Asp Ser Phe Ser Ala Asp Trp Gly Pro Gly Pro Val Val Lys Lys Ala
          50          55          60
Phe Glu Ala Asp Cys Asn Cys Glu Leu Lys Phe Val Ala Leu Glu Asp
65          70          75          80
Gly Val Ser Leu Leu Asn Arg Leu Arg Met Glu Gly Lys Asn Ser Lys
          85          90          95
Ala Asp Val Val Leu Gly Leu Asp Asn Asn Leu Leu Glu Ala Ala Thr
          100          105          110
Gln Thr Arg Leu Phe Ala Lys Ser Gly Val Ala Ala Asp Ala Val Asn
          115          120          125
Val Pro Gly Gly Trp Lys Asn Asp Thr Phe Val Pro Phe Asp Tyr Gly
          130          135          140
Tyr Phe Ala Phe Val Tyr Asp Lys Asn Lys Leu Lys Asn Pro Pro Lys
145          150          155          160
Ser Leu Lys Glu Leu Val Glu Ser Asp Gln Lys Trp Arg Val Ile Tyr

```



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      165      170      175
Glu Asp Pro Arg Thr Ser Thr Pro Gly Leu Gly Leu Leu Leu Trp Met
      180      185      190
Gln Lys Val Tyr Gly Asp Lys Thr Pro Glu Ala Trp Gln Lys Leu Ala
      195      200
Ala Lys Thr Val Thr Val Thr Lys Gly Trp Ser Glu Ala Tyr Gly Leu
      210      215      220
Phe Leu Lys Gly Glu Ser Asp Leu Val Leu Ser Tyr Thr Thr Ser Pro
      225      230      235      240
Ala Tyr His Ile Ile Ala Glu Lys Lys Asp Asn Tyr Ala Ala Ala Asn
      245      250      255
Phe Ala Glu Gly His Tyr Leu Gln Val Glu Val Ala Ala Arg Thr Ala
      260      265      270
Ala Ser Lys Gln Pro Glu Leu Ala Glu Lys Phe Leu Lys Phe Met Ile
      275      280      285
Ser Pro Ala Phe Gln Asn Ala Ile Pro Thr Gly Asn Trp Met Tyr Pro
      290      295      300
Val Thr Asp Val Ala Leu Pro Ala Gly Phe Glu Gln Leu Asn Lys Pro
      305      310      315      320
Gln Thr Ser Leu Glu Phe Thr Pro Gln Gln Val Ala Ala Gln Arg Ala
      325      330      335
Ala Trp Ile Ser Glu Trp Gln Arg Ala Val Ser Arg
      340      345

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<210> 9428

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 9428

```

Ser Val Arg Trp Pro Arg Arg Trp Arg Leu Pro Ala Cys Cys Arg Leu
1      5      10
Ala Ile Leu Ala Leu Trp Pro Ser Ser Ala Thr Arg Ile Ser Ala Arg
      20      25      30
Cys Arg Ser Gly Phe Ile Ser Lys Leu Ala Pro Ile Val Ala Arg Thr
      35      40      45
Ala Pro Ser Arg Arg Tyr Ser Cys Cys Cys Cys Ala Leu Arg Tyr Leu
      50      55      60
Pro Leu Ser Lys Asn Phe Arg Gly Val Met Leu Lys Leu Thr Asp Val
      65      70      75      80
Thr Trp Leu Tyr Glu His Leu Pro Met Arg Phe Thr Leu Ser Val Arg
      85      90      95
Gln Gly Glu Arg Ile Ala Val Leu Gly Pro Ser Gly Ala Gly Lys Ser
      100      105      110
Thr Leu Leu Asn Leu Ile Ala Gly Phe Leu Gln Pro Ala Ser Gly Ser
      115      120      125
Ile Val Ile Asp Asn Gly Glu Tyr Thr Tyr Ala Pro Pro Ala Lys Arg
      130      135      140
Pro Val Ser Met Leu Phe Gln Glu Asn Asn Leu Phe Asn His Leu Thr
      145      150      155      160
Val Trp Gln Asn Ile Ala Leu Gly Met Asp Pro Gly Leu Lys Leu Asn
      165      170      175
Val Ala Gln Arg Gln Thr Leu Glu Ala Ile Ala Glu Gln Met Gly Leu
      180      185      190
Ala Ala Phe Ile Asn Arg Leu Pro Gly Glu Leu Ser Gly Gly Gln Arg
      195      200      205
Gln Arg Val Ala Leu Ala Arg Cys Leu Val Arg Lys Gln Pro Leu Leu
      210      215      220
Leu Leu Asp Glu Pro Phe Ser Ala Leu Asp Pro Ala Leu Arg Gln Glu
      225      230      235      240
Met Leu Ser Leu Val Glu Glu Val Cys Glu Arg Glu Gln Leu Thr Met

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245 250 255
 Leu Met Val Ser His Ser Ile Glu Asp Ala Ala Arg Ile Ala Pro Arg
 260 265 270
 Ser Val Val Ile Ala Glu Gly Arg Ile Leu Trp Asp Gly Glu Thr Glu
 275 280 285
 Glu Leu Leu Ser Gly Lys Ala Gly Ala Ser Ser Leu Leu Gly Ile Arg
 290 295 300
 Glu Val
 305

<210> 9429

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 9429

Arg Phe Leu Ser Leu Val Ser Asn Val Leu Pro Tyr Leu Phe Phe Gly
 1 5 10 15
 Trp Ser Asn Thr Met Ala Ile Ala Ile Gly Leu Asp Phe Gly Ser Asp
 20 25 30
 Ser Val Arg Ala Leu Ala Val Asp Cys Thr Thr Gly Gln Glu Ile Ala
 35 40 45
 Thr Ser Val Glu Trp Tyr Pro Arg Trp Gln Glu Gly Arg Tyr Cys Asp
 50 55 60
 Ala Pro Asn Asn Gln Phe Arg His His Pro Arg Asp Tyr Ile Glu Ser
 65 70 75 80
 Met Glu Ala Ala Ile Lys Thr Val Leu Ala Glu Leu Thr Asp Ala Gln
 85 90 95
 Arg Ala Asp Val Val Gly Ile Gly Val Asp Ser Thr Gly Ser Thr Pro
 100 105 110
 Ala Pro Val Asp Ala Glu Gly Arg Val Leu Ala Leu Arg Pro Glu Phe
 115 120 125
 Ala Asp Asn Pro Asn Ala Met Phe Val Leu Trp Lys Asp His Thr Ala
 130 135 140
 Val Glu Glu Ala Glu Ala Ile Thr Arg Leu Cys Leu Gln Pro Gly Lys
 145 150 155 160
 Thr Asp Tyr Ser Arg Tyr Ile Gly Gly Ile Tyr Ser Ser Glu Trp Phe
 165 170 175
 Trp Ala Lys Ile Leu His Val Thr Arg Ala Asp Ala Ser Val Ala Gln
 180 185 190
 Ala Ala Ala Ser Trp Ile Glu Leu Cys Asp Trp Val Pro Ala Leu Leu
 195 200 205
 Ser Gly Thr Thr Arg Pro Gln Asp Ile Arg Arg Gly Arg Cys Ser Ala
 210 215 220
 Gly His Lys Ser Leu Trp His Glu Ser Trp Gly Gly Leu Pro Pro Ala
 225 230 235 240
 Ala Phe Phe Asp Glu Leu Asp Pro Ile Ile Asn Lys Asn Leu Thr Tyr
 245 250 255
 Pro Leu Phe Thr Asp Thr Phe Thr Ala Asp Ile Pro Val Gly Thr Leu
 260 265 270
 Cys Glu Glu Trp Ala Lys Arg Leu Gly Leu Pro Gln Asn Val Thr Ile
 275 280 285
 Ser Gly Gly Ala Phe Asp Cys His Met Gly Ala Val Gly Ala Gly Ala
 290 295 300
 Gln Pro Asn Thr Leu Val Lys Val Ile Gly Thr Ser Thr Cys Asp Ile
 305 310 315 320
 Leu Thr Ala Asp Lys Ala Ser Val Gly Asp Arg Ala Val Lys Gly Ile
 325 330 335
 Cys Gly Gln Val Asp Gly Ser Val Val Pro Asp Phe Ile Gly Leu Glu
 340 345 350
 Ala Gly Gln Ser Ala Phe Gly Asp Ile Tyr Ala Trp Phe Gly Arg Val

355 360 365
 Leu Gly Trp Pro Leu Asp Gln Leu Ala Ala Ala His Pro Glu Leu Lys
 370 375 380
 Thr Gln Ile Thr Ala Ser Lys Lys Gln Leu Leu Pro Gln Leu Thr Asp
 385 390 400
 Ala Trp Ala Lys Asn Pro Ser Leu Asp His Leu Pro Val Val Leu Asp
 405 410 415
 Trp Phe Asn Gly Arg Arg Thr Pro Phe Ala Asn Gln Arg Leu Lys Gly
 420 425 430
 Val Ile Thr Asp Leu Asn Leu Ala Thr Asp Ala Pro Ala Leu Phe Gly
 435 440 445
 Gly Leu Ile Ala Ala Thr Ala Phe Gly Ala Arg Ala Ile Met Glu Cys
 450 455 460
 Phe Ile Asp Gln Gly Ile Asp Val Asn Asn Val Met Ala Leu Gly Gly
 465 470 475
 Ile Ala Arg Lys Asn Pro Val Ile Met Gln Ala Cys Cys Asp Val Leu
 485 490 495
 Asn Arg Pro Leu Gln Ile Val Ala Ser Asp Gln Cys Cys Ala Leu Gly
 500 505 510
 Ala Ala Ile Phe Ala Ala Val Ala Ala Gly Val His Ala Asp Ile Pro
 515 520 525
 Thr Ala Gln Gln His Met Ala Ser Ala Val Glu Asn Thr Leu His Pro
 530 535 540
 Gln Thr Gln Gln Ala Gln Arg Phe Glu Gln Leu Tyr Gln Arg Tyr Gln
 545 550 555
 Gln Trp Ala Lys Ser Ala Glu Leu His Tyr Leu Pro Val Ala Ala Pro
 565 570 575
 Ala Lys Ser Thr Ala Asp Thr Thr Ala Thr Leu Thr His
 580 585 590

<210> 9430

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 9430

Arg Arg Ala Ala Leu Glu Arg Ser Leu Leu Arg Phe Lys Thr Leu Ser
 1 5 10 15
 Pro Glu Cys Pro Val Ala Leu Arg Leu Pro Gly Leu Arg Phe Cys Arg
 20 25 30
 Pro Asp Lys Arg Ser Ala Ile Trp Gln Glu Thr Thr Met Leu Glu Asp
 35 40 45
 Leu Lys Arg Gln Val Leu Glu Ala Asn Leu Ala Leu Pro Lys His Asn
 50 55 60
 Leu Val Thr Leu Thr Trp Gly Asn Val Ser Ala Val Asp Arg Glu Lys
 65 70 75 80
 Gly Val Phe Val Ile Lys Pro Ser Gly Val Asp Tyr Thr Val Met Thr
 85 90 95
 Ala Glu Asp Met Val Val Val Ser Ile Glu Thr Gly Glu Val Val Glu
 100 105 110
 Gly Lys Lys Lys Pro Ser Ser Asp Thr Pro Thr His Arg Leu Leu Tyr
 115 120 125
 Gln Ala Phe Pro Thr Ile Gly Gly Ile Val His Thr His Ser Arg His
 130 135 140
 Ala Thr Ile Trp Ala Gln Ala Gly Gln Pro Ile Pro Ala Thr Gly Thr
 145 150 155 160
 Thr His Ala Asp Tyr Phe Tyr Gly Thr Ile Pro Cys Thr Arg Leu Met
 165 170 175
 Thr Asp Ala Glu Ile Asn Gly Glu Tyr Glu Trp Glu Thr Gly Asn Val
 180 185 190
 Ile Val Glu Thr Phe Glu Lys Gln Gly Ile Asp Ala Ala Gln Met Pro

195 200 205
 Gly Val Leu Val His Ser His Gly Pro Phe Ala Trp Gly Lys Asn Ala
 210 215 220
 Glu Asp Ala Val His Asn Ala Ile Val Leu Glu Glu Val Ala Tyr Met
 225 230 235 240
 Gly Ile Phe Cys Arg Gln Leu Ala Pro Gln Leu Pro Asp Met Gln Gln
 245 250 255
 Thr Leu Leu Asp Lys His Tyr Leu Arg Lys His Gly Ala Lys Ala Tyr
 260 265 270
 Tyr Gly Gln
 275

<210> 9431

<211> 838

<212> PRT

<213> Enterobacter cloacae

<400> 9431

Thr Phe Ala Arg Cys Arg Cys Ala Tyr Arg Asp Cys Gly Thr Cys Arg
 1 5 10 15
 Pro Asp Lys Arg Ser Ala Ile Arg Leu Asn Arg His Cys Ile Lys Pro
 20 25 30
 Gln Gln Thr Pro Leu Asn Gln Ala Ile Ile Arg Pro Gly Phe Val Leu
 35 40 45
 Trp Asp Asn Ala Val Thr Gln Ala Gln Glu Gly Phe Leu Leu Thr Arg
 50 55 60
 His Trp Arg Asp Thr Pro Gln Gly Thr Glu Val Glu Phe Trp Leu Ala
 65 70 75 80
 Thr Asp Asn Gly Pro Leu Asn Val Thr Leu Pro Pro Gln Glu Ser Val
 85 90 95
 Ala Phe Ile Pro Glu Ala His Val Glu Lys Val Lys Gln Leu Leu Arg
 100 105 110
 Gly Glu Asn Gly Trp Arg Ile Thr Pro Leu Glu Leu Lys Asp Phe His
 115 120
 Arg Gln Pro Val Tyr Gly Leu Tyr Cys Arg Ala His Arg Gln Leu Met
 130 135 140
 Arg Tyr Glu Lys Leu Leu Arg Glu Ala Gly Val Thr Leu Tyr Glu Ala
 145 150 155 160
 Asp Ile Arg Pro Pro Glu Arg Phe Leu Met Glu Arg Phe Ile Thr Ala
 165 170 175
 Pro Val Trp Val Asp Gly Thr Ala Gln Asn Gly Arg Ile Val Asn Ala
 180 185 190
 Arg Leu Lys Pro Ser Pro Asn Tyr Arg Pro Pro Leu Lys Trp Val Ser
 195 200 205
 Leu Asp Ile Glu Thr Thr Arg His Gly Glu Leu Tyr Cys Ile Gly Leu
 210 215 220
 Glu Gly Cys Gly Gln Arg Val Val Tyr Met Leu Gly Pro Pro Asn Gly
 225 230 235 240
 Asp Ala Ser Ala Leu Asp Phe Asn Leu Glu Tyr Val Asn Ser Arg Pro
 245 250 255
 Gln Leu Leu Glu Lys Leu Asn Gln Trp Phe Ala Glu His Asp Pro Asp
 260 265 270
 Val Leu Ile Gly Trp Asn Val Val Gln Phe Asp Leu Arg Val Leu Gln
 275 280 285
 Lys His Ala Glu Arg Tyr Arg Ile Pro Leu Met Leu Gly Arg Gly Asn
 290 295 300
 Ser Glu Leu Glu Trp Arg Glu His Gly Phe Lys Asn Gly Val Phe Phe
 305 310 315 320
 Ala Gln Ala Asn Gly Arg Leu Ile Ile Asp Gly Ile Glu Ala Leu Lys
 325 330 335
 Ser Ala Phe Trp Asn Phe Ser Ser Phe Ser Leu Glu Ala Val Ala Gln

340				345				350							
Glu	Leu	Leu	Gly	Glu	Gly	Lys	Ser	Ile	Asp	Asn	Pro	Trp	Asp	Arg	Met
355				360				365							
Asp	Glu	Ile	Asp	Arg	Arg	Phe	Asn	Glu	Asp	Lys	Pro	Ala	Leu	Ala	Thr
370				375				380							
Tyr	Asn	Leu	Lys	Asp	Cys	Glu	Leu	Val	Thr	Gln	Ile	Phe	His	Lys	Thr
385				390				395							
Glu	Ile	Met	Pro	Phe	Leu	Leu	Glu	Arg	Ala	Thr	Val	Asn	Gly	Leu	Ala
400				405				410							
Val	Asp	Arg	His	Gly	Gly	Ser	Val	Ala	Ala	Phe	Ser	His	Leu	Tyr	Phe
420				425				430							
Pro	Arg	Met	His	Arg	Ala	Gly	Tyr	Val	Ala	Pro	Asn	Leu	Gly	Asp	Val
435				440				445							
Pro	Pro	Gln	Ala	Ser	Pro	Gly	Gly	Tyr	Val	Met	Asp	Ser	Arg	Pro	Gly
450				455				460							
Leu	Tyr	Asp	Ser	Val	Leu	Val	Leu	Asp	Tyr	Lys	Ser	Leu	Tyr	Pro	Ser
465				470				475							
Ile	Ile	Arg	Thr	Phe	Leu	Ile	Asp	Pro	Val	Gly	Leu	Val	Glu	Gly	Met
485				490				495							
Ala	Gln	Pro	Asp	Asp	Ala	His	Ser	Thr	Glu	Gly	Phe	Leu	Gly	Ala	Arg
500				505				510							
Phe	Ser	Arg	Glu	Lys	His	Cys	Leu	Pro	Glu	Ile	Val	Gly	Asn	Ile	Trp
515				520				525							
His	Gly	Arg	Asp	Glu	Ala	Lys	Arg	His	Gly	Asn	Lys	Pro	Leu	Ser	Gln
530				535				540							
Ala	Leu	Lys	Ile	Ile	Met	Asn	Ala	Phe	Tyr	Gly	Val	Leu	Gly	Thr	Ser
545				550				555							
Ala	Cys	Arg	Phe	Phe	Asp	Pro	Arg	Leu	Ala	Ser	Ser	Ile	Thr	Met	Arg
565				570				575							
Gly	His	Glu	Ile	Met	Arg	Gln	Thr	Lys	Ala	Leu	Ile	Glu	Ser	Arg	Gly
580				585				590							
Tyr	Asp	Val	Ile	Tyr	Gly	Asp	Thr	Asp	Ser	Thr	Phe	Val	Trp	Leu	Lys
595				600				605							
Ala	Ala	His	Ser	Glu	Asp	Asp	Ala	Ala	Gln	Ile	Gly	Lys	Asp	Leu	Val
610				615				620							

Gln Leu Gly Leu Phe
835

<210> 9432

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 9432

Ala Glu Ser Leu Ile Arg Phe Leu Thr Gly Ile Val Met Gln Ala Leu
1 5 10 15
Leu Glu His Phe Ile Thr Gln Ser Val Met Tyr Ser Leu Ile Ala Val
20 25 30
Ala Leu Val Ala Phe Leu Glu Ser Leu Ala Leu Val Gly Leu Ile Leu
35 40 45
Pro Gly Thr Val Met Met Ala Gly Leu Gly Ala Leu Ile Gly Ser Gly
50 55 60
Glu Val Asn Phe Trp Gln Ala Trp Met Ala Gly Ile Ile Gly Cys Leu
65 70 75 80
Leu Gly Asp Trp Ile Ser Phe Trp Leu Gly Trp Arg Phe Lys Lys Pro
85 90 95
Leu His Arg Trp Ser Phe Met Lys Lys Asn Lys Ala Leu Leu Asp Lys
100 105 110
Thr Glu His Ala Leu His Gln His Ser Met Phe Thr Ile Leu Val Gly
115 120 125
Arg Phe Val Gly Pro Thr Arg Pro Leu Val Pro Met Val Ala Gly Met
130 135 140
Leu Asp Leu Pro Val Ala Lys Phe Val Val Pro Asn Ile Ile Gly Cys
145 150 155 160
Val Phe Trp Pro Pro Phe Tyr Phe Leu Pro Gly Ile Leu Ala Gly Ala
165 170 175
Ala Ile Asp Ile Pro Asp Gly Met Gln Ser Gly Glu Phe Lys Trp Leu
180 185 190
Leu Leu Gly Thr Ala Val Leu Leu Trp Leu Ala Val Trp Leu Cys Trp
195 200 205
Arg Leu Trp Arg Ser Ala Lys Ala Ser Val Asp Arg Leu Thr Arg Tyr
210 215 220
Leu Pro Arg Thr Arg Leu Leu Trp Leu Ala Pro Leu Thr Leu Gly Val
225 230 235 240
Ala Val Val Ala Leu Ile Ala Leu Ile Arg His Pro Leu Met Pro Val
245 250 255
Tyr Gly Glu Ile Leu Leu Lys Val Val Ser Arg
260 265

<210> 9433

<211> 421

<212> PRT

<213> Enterobacter cloacae

<400> 9433

Ser Pro Ala Ser Lys Met Phe Phe Ala Gly Phe Phe Arg Leu Leu Phe
1 5 10 15
His Pro Ile Ser Ile Arg Phe His Lys Asp Leu Arg Met Leu Trp Leu
20 25 30
Met Thr Met Gly Arg Arg Leu Asn Gly Val Tyr Ala Ala Phe Met Leu
35 40 45
Val Ala Phe Met Met Gly Val Ala Gly Ala Leu Gln Ala Pro Thr Leu
50 55 60
Ser Leu Phe Leu Ser Arg Glu Val Gly Ala Gln Pro Phe Trp Val Gly
65 70 75 80
Leu Phe Tyr Thr Val Asn Ala Ile Ala Gly Ile Leu Val Ser Leu Trp

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<210> 9434
<211> 171
<212> PRT
<213> Enterobacter cloacae
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Ala	Lys	Arg	Arg	Glu	Pro	Asp	Met	Arg	Arg	Ile	Leu	Ser	Val	Leu	Leu
1				5				10						15	
Glu	Asn	Glu	Ser	Gly	Ala	Leu	Ser	Arg	Val	Ile	Gly	Leu	Phe	Ala	Gln
			20					25					30		
Arg	Gly	Tyr	Asn	Ile	Glu	Ser	Leu	Thr	Val	Ala	Pro	Thr	Asp	Asp	Pro
		35					40					45			
Thr	Leu	Ser	Arg	Met	Thr	Ile	Gln	Thr	Val	Gly	Asp	Ala	Lys	Val	Leu
	50					55					60				
Glu	Gln	Ile	Glu	Lys	Gln	Leu	His	Lys	Leu	Val	Asp	Val	Leu	Arg	Val
65					70					75				80	
Ser	Glu	Leu	Gly	Gln	Gly	Ala	Tyr	Val	Glu	Arg	Glu	Val	Met	Leu	Val

Lys	Ile	Gln	Ala	85	Ser	Gly	Tyr	Gly	Arg	90	Glu	Glu	Val	Lys	Arg	95	Asn	Thr
Asp	Ile	Phe	Arg	100	Gly	Gln	Ile	Ile	Asp	105	Val	Thr	Pro	Ser	Ile	Tyr	Thr	
Val	Gln	Leu	Ala	115	Gly	Thr	Ser	Asp	Lys	120	Leu	Asp	Ala	Phe	Leu	Ala	Ser	
Val	Arg	Asp	Val	130	Ala	Lys	Ile	Val	Glu	135	Val	Ala	Arg	Ser	Gly	Val	Val	
Gly	Leu	Ser	Arg	145	Gly	Asp	Lys	Ile	Met	150	Arg							
				165						170								

<210> 9435

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 9435

[illegible]

<210> 9436

<211> 594

<212> PRT

<213> Enterobacter cloacae

<400> 9436

Gly	Lys	Thr	Arg	Arg	Met	Lys	Ala	Ala	Ala	Lys	Thr	Leu	Lys	Pro	Lys
1			5						10					15	
Arg	Gln	Glu	Glu	Gln	Ala	Asn	Phe	Val	Ser	Trp	Arg	Phe	Ala	Leu	Leu
		20						25					30		
Cys	Gly	Cys	Ile	Leu	Leu	Ala	Leu	Gly	Phe	Leu	Leu	Gly	Arg	Val	Ala
		35					40					45			
Trp	Leu	Gln	Ile	Ile	Ala	Pro	Asp	Met	Leu	Val	Arg	Gln	Gly	Asp	Met
		50				55					60				
Arg	Ser	Leu	Arg	Val	Gln	Glu	Val	Ser	Thr	Ser	Arg	Gly	Met	Ile	Thr
65					70					75				80	
Asp	Arg	Ser	Gly	Arg	Pro	Leu	Ala	Val	Ser	Val	Pro	Val	Lys	Ala	Ile
			85						90				95		
Trp	Ala	Asp	Pro	Lys	Glu	Leu	His	Asp	Ala	Gly	Gly	Ile	Thr	Leu	Asp
		100						105					110		
Asn	Arg	Trp	Lys	Ala	Leu	Ser	Asp	Ala	Leu	Lys	Met	Pro	Leu	Asp	Gln
		115					120					125			
Leu	Ala	Ser	Arg	Val	Asn	Ala	Asn	Pro	Lys	Gly	Arg	Phe	Ile	Tyr	Leu
		130				135					140				

Ala Arg Gln Val Asn Pro Asp Met Ala Asp Tyr Ile Lys Lys Leu Lys
 145 150 155 160
 Leu Pro Gly Ile His Leu Arg Glu Glu Ser Arg Arg Tyr Tyr Pro Ser
 165 170 175
 Gly Glu Val Thr Ala His Leu Ile Gly Phe Thr Asn Val Asp Ser Gln
 180 185 190
 Gly Ile Glu Gly Val Glu Lys Ser Phe Asp Lys Trp Leu Thr Gly Gln
 195 200 205
 Pro Gly Glu Arg Ile Val Arg Lys Asp Arg Tyr Gly Arg Val Ile Glu
 210 215 220
 Asp Ile Ser Ser Thr Asp Ser Gln Ala Ala His Asn Leu Ala Leu Ser
 225 230 235 240
 Ile Asp Glu Arg Leu Gln Ala Leu Val Tyr Arg Glu Leu Asn Asn Ala
 245 250 255
 Val Ala Phe Asn Lys Ala Glu Ser Gly Ser Ala Val Leu Val Asp Val
 260 265 270
 Ala Thr Gly Glu Val Leu Ala Met Ala Ser Ser Pro Ser Tyr Asn Pro
 275 280 285
 Asn Asn Phe Ala Gly Thr Ala Lys Asp Ala Met Arg Asn Arg Ser Ile
 290 295 300
 Thr Asp Val Phe Glu Pro Gly Ser Thr Val Lys Pro Met Val Val Met
 305 310 315 320
 Thr Ala Leu Gln Arg Gly Ile Val Asn Glu Asn Thr Val Leu Asn Thr
 325 330 335
 Ile Pro Tyr Arg Ile Asn Gly His Glu Ile Lys Asp Val Ala Arg Tyr
 340 345 350
 Ser Glu Leu Thr Leu Thr Gly Val Leu Gln Lys Ser Ser Asn Val Gly
 355 360 365
 Val Ser Lys Leu Ala Leu Ala Met Pro Ser Ser Ala Leu Val Asp Thr
 370 375 380
 Tyr Ser Arg Phe Gly Leu Gly Lys Ala Thr Asn Leu Gly Leu Val Gly
 385 390 395 400
 Glu Arg Ser Gly Leu Tyr Pro Gln Lys Gln Arg Trp Ser Asp Ile Glu
 405 410 415
 Arg Ala Thr Phe Ser Phe Gly Tyr Gly Leu Met Val Thr Pro Leu Gln
 420 425 430
 Leu Ala Arg Val Tyr Ala Thr Ile Gly Ser Tyr Gly Ile Tyr Arg Pro
 435 440 445
 Leu Ser Ile Thr Lys Val Asp Pro Pro Val Pro Gly Glu Arg Val Phe
 450 455 460
 Pro Glu Ser Ile Val Arg Thr Val Val His Met Met Glu Ser Val Ala
 465 470 475 480
 Leu Pro Gly Gly Gly Gly Val Lys Ala Ala Ile Lys Gly Tyr Arg Ile
 485 490 495
 Ala Ile Lys Thr Gly Thr Ala Lys Lys Val Gly Pro Asp Gly Arg Tyr
 500 505 510
 Ile Asn Lys Tyr Ile Ala Tyr Thr Ala Gly Val Ala Pro Ala Ser Asn
 515 520 525
 Pro Arg Phe Ala Leu Val Val Val Ile Asn Asp Pro Gln Ala Gly Lys
 530 535 540
 Tyr Tyr Gly Gly Ala Val Ser Ala Pro Val Phe Gly Ala Ile Met Gly
 545 550 555 560
 Gly Val Leu Arg Thr Met Asn Ile Glu Pro Asp Ala Leu Ala Thr Gly
 565 570 575
 Glu Lys Ser Glu Phe Val Ile Asn Gln Gly Glu Gly Thr Gly Arg Gly
 580 585 590
 Ser

<210> 9437

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 9437

Arg Leu Ser Asp Cys Arg Gln Ser Ser Ser Gly Leu Leu Arg Pro Arg
 1 5 10 15
 Asp Gly Ser Ala Ser Ala Gly Ser Gly Gly Met Ile Ser Ile Thr Leu
 20 25 30
 Ser Gln Ala Ala Val Leu Gln Gly Met Leu His Gly Gln Asp Leu
 35 40 45
 Thr Ile Glu Ala Val Tnr Thr Thr Asp Thr Arg Lys Val Thr Ala Gly Cys
 50 55 60
 Leu Phe Val Ala Leu Lys Gly Glu Arg Phe Asp Ala His Asp Phe Ala
 65 70 75 80
 Gln Gln Ala Lys Asp Asn Gly Ala Gly Ala Leu Leu Val Ser Arg Lys
 85 90 95
 Leu Asp Ile Asp Leu Pro Gln Ile Val Val Lys Asp Thr Arg Leu Ala
 100 105 110
 Phe Gly Glu Leu Ala Ala Trp Val Arg Gln Gln Val Pro Thr Arg Val
 115 120 125
 Val Ala Leu Thr Gly Ser Ser Gly Lys Thr Ser Val Lys Glu Met Thr
 130 135 140
 Ala Ala Ile Leu Ser Gln Cys Gly Asn Thr Leu Tyr Thr Ala Gly Asn
 145 150 155 160
 Leu Asn Asn Asp Ile Gly Val Pro Met Thr Leu Leu Arg Leu Thr His
 165 170 175
 Glu His Glu Tyr Ala Val Ile Glu Leu Gly Ala Asn His Gln Gly Glu
 180 185 190
 Ile Ala Trp Thr Val Ser Leu Thr Arg Pro Glu Ala Ala Leu Val Asn
 195 200 205
 Asn Leu Ala Ala Ala His Leu Glu Gly Phe Gly Ser Leu Ala Gly Val
 210 215 220
 Ala Lys Ala Lys Gly Glu Ile Tyr Thr Gly Leu Pro Asp Asp Gly Ile
 225 230 235 240
 Ala Ile Met Asn Ala Asp Asn Asn Asp Trp Leu Asn Trp Gln Ser Ile
 245 250 255
 Ile Gly Ser Arg Lys Thr Trp Arg Phe Ser Pro Asn Ala Ala Asn Ser
 260 265 270
 Asp Phe Ser Ala Thr Asn Ile His Val Thr Ser His Gly Thr Glu Phe
 275 280 285
 Thr Leu Thr Thr Pro Thr Gly Asp Ile Asp Val Leu Leu Pro Leu Pro
 290 295 300
 Gly Arg His Asn Ile Ala Asn Ala Leu Ala Ala Ala Leu Ser Met
 305 310 315 320
 Ala Val Gly Ala Ser His Ala Ala Ile Lys Ala Gly Leu Ala Asn Leu
 325 330 335
 Lys Ala Val Pro Gly Arg Leu Phe Pro Ile Gln Leu Ala Glu Asn Lys
 340 345 350
 Leu Leu Leu Asp Asp Ser Tyr Asn Ala Asn Val Gly Ser Met Thr Ala
 355 360 365
 Ala Val Gln Val Leu Ser Glu Met Pro Gly Tyr Arg Val Met Val Val
 370 375 380
 Gly Asp Met Ala Glu Leu Gly Asp Glu Ser Glu Ala Cys His Val Gln
 385 390 395 400
 Val Gly Glu Ala Ala Lys Ala Ala Gly Leu Asp Arg Val Leu Ser Ala
 405 410 415
 Gly Pro Leu Ser Lys Ala Ile Ser Asp Ala Ser Glu Val Gly Glu His
 420 425 430
 Phe Ala Asp Lys Ser Ala Leu Ile Glu Arg Leu Lys Ala Leu Ile Thr
 435 440 445
 Glu Lys Gln Ile Val Thr Val Leu Val Lys Gly Ser Arg Ser Ala Ala

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<210> 9438
<211> 426
<212> PRT
<213> Enterobacter cloacae
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[illegible]

405 410 415
 Ala Gln Ala Phe Thr Arg Gly Ser Arg
 420 425

<210> 9439
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

<400> 9439
 Leu Tyr Val Phe Trp Thr Arg Arg Ala Asp Met Ser Gln Ala Ala Leu
 1 5 10 15
 Asn Thr Arg Asn Arg Asp Asp Glu Glu Tyr Ser Ser Ser Arg Arg
 20 25 30
 Ser Asn Gly Thr Arg Leu Ala Gly Ile Ile Phe Leu Leu Gly Val Leu
 35 40 45
 Cys Thr Val Phe Ile Ser Gly Trp Met Val Leu Gly Trp Met Glu Asp
 50 55 60
 Ala Gln Arg Leu Pro Leu Ser Lys Leu Val Val Thr Gly Glu Arg His
 65 70 75 80
 Tyr Thr Arg Asn Asp Asp Ile Arg Gln Ser Ile Leu Ala Leu Gly Ser
 85 90 95
 Pro Gly Thr Phe Met Thr Gln Asp Val Asn Ile Ile Gln Ser Gln Ile
 100 105 110
 Glu Arg Leu Pro Trp Ile Lys Gln Ala Ser Val Arg Lys Gln Trp Pro
 115 120 125
 Asp Glu Leu Lys Ile His Leu Val Glu Tyr Val Pro Ile Ala Arg Trp
 130 135 140
 Asn Asp Gln His Met Val Asp Val Asp Gly Asn Ser Phe Ser Val Pro
 145 150 155 160
 Ser Asp Arg Val Asn Lys Gln Asn Leu Pro Met Leu Tyr Gly Pro Ala
 165 170 175
 Val Ile Glu Asn Arg Arg Ile Pro Gly Phe Ser
 180 185

<210> 9440
 <211> 337
 <212> PRT
 <213> Enterobacter cloacae

<400> 9440
 Ile Ile Phe Phe Glu Val Ile Thr Val Pro Trp Gln Arg Glu Phe Ser
 1 5 10 15
 Val Thr Val Glu Ser Glu Met Pro Glu Asn Asn Ile Asn Gln Pro Gln
 20 25 30
 Thr Tyr Asp Gly Val Lys Pro Gln Leu Arg Thr Val Asp Leu Asn Leu
 35 40 45
 Leu Thr Val Phe Asp Ala Val Met Gln Glu Gln Asn Ile Thr Arg Ala
 50 55 60
 Ala Gln Ser Leu Gly Met Ser Gln Pro Ala Val Ser Asn Ala Val Ala
 65 70 75 80
 Arg Leu Lys Val Met Phe Asn Asp Glu Leu Phe Val Arg Tyr Gly Arg
 85 90 95
 Gly Ile Gln Pro Thr Ala Arg Ala Phe Gln Leu Phe Gly Ser Ile Arg
 100 105 110
 Gln Ala Leu Gln Leu Val Gln Asn Glu Leu Pro Gly Ser Gly Phe Glu
 115 120 125
 Pro Leu Ser Ser Glu Arg Val Phe His Leu Cys Val Cys Ser Pro Leu
 130 135 140
 Asp Asn Tyr Leu Thr Ser Val Ile Tyr Asn Lys Val Glu Gln Ile Ala
 145 150 155 160

Pro Asn Ile His Leu Val Phe Lys Ser Ser Leu Asn Gln Asn Thr Glu
 165 170 175
 His Gln Leu Arg Tyr Gln Glu Thr Glu Phe Val Leu Gly Tyr Glu Glu
 180 185 190
 Phe Arg Arg Pro Glu Phe Ala Cys Val Pro Leu Phe Lys Asp Glu Met
 195 200 205
 Val Leu Val Ala Ser Lys Lys His Pro Arg Met Asn Ser Pro Leu Arg
 210 215 220
 Glu Ser Asp Val Tyr Ser Glu Gln His Ala Val Val Ala Leu Asp Arg
 225 230 235 240
 Tyr Ala Ser Phe Ser Leu Pro Trp Tyr Asp Thr Ala Asp Lys Gln Ala
 245 250 255
 Ser Val Ala Tyr Gln Gly Met Ala Met Val Ser Val Leu Asn Val Val
 260 265 270
 Ser Gln Thr Gln Leu Val Ala Ile Ala Pro Arg Trp Leu Ala Glu Glu
 275 280 285
 Phe Ser Asp Ser Leu Ser Leu Gln Ile Leu Pro Leu Pro Leu Lys Leu
 290 295 300
 Asn Ser Arg Thr Cys Tyr Leu Ser Trp His Glu Ala Ala Gly Arg Asp
 305 310 315 320
 Lys Gly His Gln Trp Met Glu Glu Leu Leu Val Asn Ile Cys Arg Arg
 325 330 335

<210> 9441

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 9441

Phe Arg Asn Ile Ile Gly Thr Ala Ala Gly Leu Val Ser Ile Asn Met
 1 5 10 15
 Met Glu Asn Tyr Lys His Thr Thr Val Leu Leu Asp Glu Ala Val Asn
 20 25 30
 Gly Leu Asn Ile Arg Pro Asp Gly Ile Tyr Ile Asp Gly Thr Phe Gly
 35 40 45
 Arg Gly Gly His Ser Arg Leu Ile Leu Ser Gln Leu Gly Ala Glu Gly
 50 55 60
 Arg Leu Leu Ala Ile Asp Arg Asp Pro Gln Ala Ile Ala Val Ala Gln
 65 70 75 80
 Thr Ile Asp Asp Pro Arg Phe Ser Ile Val His Gly Pro Phe Ser Ala
 85 90 95
 Leu Ala Asp Tyr Val Ala Glu Arg Gly Leu Thr Gly Lys Ile Asp Gly
 100 105 110
 Ile Leu Leu Asp Leu Gly Val Ser Ser Pro Gln Leu Asp Asp Ala Glu
 115 120 125
 Arg Gly Phe Ser Phe Met Arg Asp Gly Pro Leu Asp Met Arg Met Asp
 130 135 140
 Pro Thr Arg Gly Gln Ser Ala Ala Glu Trp Leu Gln Thr Ala Asp Glu
 145 150 155 160
 Ala Asp Ile Ala Trp Val Ile Lys Thr Phe Gly Glu Glu Arg Phe Gly
 165 170 175
 Lys Arg Ile Ala Arg Ala Ile Val Glu Arg Asn Arg Val Glu Pro Met
 180 185 190
 Thr Arg Thr Lys Glu Leu Ala Glu Val Ile Ala Ala Ala Thr Pro Val
 195 200 205
 Lys Asp Lys His Lys His Pro Ala Thr Arg Thr Phe Gln Ala Val Arg
 210 215 220
 Ile Trp Val Asn Ser Glu Leu Glu Glu Ile Glu Leu Ala Leu Lys Ser
 225 230 235 240

Ser Leu Asp Val Leu Ala Pro Gly Gly Arg Leu Ser Ile Ile Ser Phe
 245 250 255
 His Ser Leu Glu Asp Arg Ile Val Lys Arg Phe Met Arg Glu Gln Ser
 260 265 270
 Arg Gly Pro Gln Val Pro Ala Gly Leu Pro Met Thr Glu Glu Gln Leu
 275 280 285
 Arg Lys Leu Gly Gly Arg Gln Leu Arg Ala Leu Gly Lys Leu Met Pro
 290 295 300
 Gly Glu Glu Glu Val Ala Glu Asn Pro Arg Ala Arg Ser Ser Val Leu
 305 310 315 320
 Arg Ile Ala Glu Arg Thr Asn Ala
 325

<210> 9442

<211> 503

<212> PRT

<213> Enterobacter cloacae

<400> 9442

Leu Ile Lys Ala Arg Glu Gln Val Ala Asp Arg Asn Leu Arg Asp Leu
 1 5 10 15
 Leu Ala Pro Trp Val Pro Met Leu Pro Ala Arg Ala Leu Arg Glu Met
 20 25 30
 Val Leu Asp Ser Arg Val Ala Ala Ser Gly Asp Leu Phe Val Ala Val
 35 40 45
 Val Gly His Gln Ala Asp Gly Arg Arg Tyr Ile Pro Gln Ala Ile Ala
 50 55 60
 Gln Gly Val Ala Ala Ile Ile Ala Glu Ala Lys Asp Glu Ala Thr Asp
 65 70 75 80
 Gly Glu Ile Arg Glu Met His Gly Val Pro Val Ile Tyr Leu Ser Gln
 85 90 95
 Leu Asn Glu Arg Leu Ser Ala Leu Ala Gly Arg Phe Tyr Asn Glu Pro
 100 105 110
 Ser Asp Gln Leu Gln Leu Val Gly Val Thr Gly Thr Asn Gly Lys Thr
 115 120 125
 Thr Thr Thr Gln Leu Met Ala Gln Trp Ala Gln Leu Lys Gly Glu Thr
 130 135 140
 Gly Ala Val Met Gly Thr Val Gly Asn Gly Leu Leu Gly Lys Val Ser
 145 150 155 160
 Pro Thr Glu Asn Thr Thr Gly Ser Ala Val Asp Val Gln Arg Val Leu
 165 170 175
 Ala Gly Leu Ala Glu Gln Gly Ala Thr Phe Ala Ala Met Glu Val Ser
 180 185 190
 Ser His Gly Leu Val Gln His Arg Val Ala Ala Leu Lys Phe Ala Ala
 195 200 205
 Ser Val Phe Thr Asn Leu Ser Arg Asp His Leu Asp Tyr His Gly Asp
 210 215 220
 Met Glu His Tyr Glu Ala Ala Lys Trp Leu Leu Tyr Ser Thr His His
 225 230 235 240
 His Gly Gln Ala Ile Ile Asn Ala Asp Asp Glu Val Gly Arg Arg Trp
 245 250 255
 Leu Glu Lys Leu Pro Asp Ala Val Ala Val Ser Met Glu Asp Arg Ile
 260 265 270
 Asn Pro Asn Cys Arg Gly Arg Trp Leu Lys Ala Val Glu Val Asn Tyr
 275 280 285
 His Asp Ser Gly Ala Thr Ile Arg Phe Ala Ser Ile Trp Gly Glu Gly
 290 295 300
 Glu Ile Glu Ser Arg Leu Met Gly Ala Phe Asn Val Ser Asn Leu Leu
 305 310 315 320
 Leu Ala Leu Ala Thr Leu Leu Ala Leu Gly Tyr Pro Met Ala Asp Leu
 325 330 335

Leu Lys Thr Ala Glu Arg Leu Gln Pro Val Cys Gly Arg Met Glu Val
 340 345 350
 Phe Ser Ala Pro Gly Lys Pro Thr Val Val Val Asp Tyr Ala His Thr
 355 360 365
 Pro Asp Ala Leu Glu Lys Ala Leu Glu Ala Ala Arg Leu His Cys Ala
 370 375 380
 Gly Lys Leu Trp Cys Val Phe Gly Cys Gly Gly Asp Arg Asp Lys Gly
 385 390 395 400
 Lys Arg Pro Leu Met Gly Ala Ile Ala Glu Gln Phe Ala Asp Ile Pro
 405 410 415
 Val Val Thr Asp Asp Asn Pro Arg Thr Glu Glu Pro Arg Ala Ile Ile
 420 425 430
 Asn Asp Ile Leu Ala Gly Met Leu Asp Ala Gly Arg Ala Arg Val Val
 435 440 445
 Glu Gly Arg Ala Glu Ala Val Thr Asn Ala Ile Met Gln Ala Gln Glu
 450 455 460
 Asn Asp Val Val Leu Leu Ala Gly Lys Gly His Glu Asp Tyr Gln Ile
 465 470 475 480
 Val Gly Asn Arg Arg Leu Asp Tyr Ser Asp Arg Val Thr Ala Ala Arg
 485 490 495
 Leu Leu Gly Val Val Ala
 500

<210> 9443

<211> 472

<212> PRT

<213> *Enterobacter cloacae*

<400> 9443

Thr Glu Arg Leu Ala Gly Ala Ala Arg His Cys Ala Leu Leu Asp Tyr
 1 5 10 15
 Phe Ala Asp Ala Gly Ala Asp Trp Pro Gly Asn Ala Glu Gly Thr Leu
 20 25 30
 Ile Met Ala Asp Tyr Gln Gly Lys Lys Val Val Ile Ile Gly Leu Gly
 35 40 45
 Leu Thr Gly Leu Ser Cys Val Asp Phe Phe Leu Ala Arg Gly Val Thr
 50 55 60
 Pro Arg Val Met Asp Thr Arg Val Ser Pro Pro Gly Leu Asp Lys Leu
 65 70 75 80
 Pro Glu Gln Val Glu Arg His Leu Gly Gly Leu Asn Asp Glu Trp Leu
 85 90 95
 Leu Thr Ala Asp Leu Ile Val Ala Ser Pro Gly Met Ala Leu Ala His
 100 105 110
 Pro Ser Leu Ser Ala Ala Ala Asp Ala Gly Val Glu Ile Val Gly Asp
 115 120 125
 Ile Glu Leu Phe Cys Arg Glu Ala Gln Ala Pro Ile Val Ala Ile Thr
 130 135 140
 Gly Ser Asn Gly Lys Ser Thr Val Thr Thr Leu Val Gly Glu Met Ala
 145 150 155 160
 Lys Ala Ala Gly Lys Asn Val Gly Val Gly Gly Asn Ile Gly Leu Pro
 165 170 175
 Ala Leu Met Leu Leu Asp Lys Gly Cys Glu Leu Phe Val Leu Glu Leu
 180 185 190
 Ser Ser Phe Gln Leu Glu Thr Thr Ser Ser Leu His Ala Ala Ala
 195 200 205
 Thr Ile Leu Asn Val Thr Glu Asp His Met Asp Arg Tyr Pro Phe Gly
 210 215 220
 Leu Gln Gln Tyr Arg Ala Ala Lys Leu Arg Val Tyr Glu Asn Ala Lys
 225 230 235 240
 Val Cys Val Val Asn Ala Asp Asp Ala Leu Thr Met Pro Val Arg Gly
 245 250 255

Ala Asp Asp Arg Cys Ile Ser Phe Gly Ile Asn Met Gly Asp Tyr His
 260 265 270
 Leu Asn Arg Gln Gln Gly Glu Thr Trp Leu Arg Val Lys Gly Glu Lys
 275 280 285
 Val Leu Asn Val Lys Glu Met Met Leu Ser Gly Gln His Asn Tyr Thr
 290 295 300
 Asn Ala Leu Ala Ala Leu Ala Leu Ala Asp Ala Val Gly Leu Pro Arg
 305 310 315 320
 Ser Ser Ser Leu Lys Ala Leu Thr Thr Phe Thr Gly Leu Ala His Arg
 325 330 335
 Phe Gln Leu Ala Leu Glu His Asn Gly Val Arg Trp Ile Asn Asp Ser
 340 345 350
 Lys Ala Thr Asn Val Gly Ser Thr Glu Ala Ala Leu Asn Gly Leu His
 355 360 365
 Val Asp Gly Thr Leu His Leu Leu Leu Gly Gly Asp Gly Lys Ser Ala
 370 375 380
 Asp Phe Ser Ser Leu Lys Gln Tyr Leu Asn Gly Asp Asn Val Arg Leu
 385 390 395 400
 Tyr Cys Phe Gly Arg Asp Gly Ser Glu Leu Ala Ala Leu Arg Pro Glu
 405 410 415
 Val Ala Glu Gln Thr Glu Thr Met Glu Gln Ala Met Arg Leu Ile Ala
 420 425 430
 Pro Arg Val Lys Pro Gly Asp Met Val Leu Leu Ser Pro Ala Cys Ala
 435 440 445
 Ser Leu Asp Gln Phe Lys Asn Phe Glu Gln Arg Gly Asp Val Phe Thr
 450 455 460
 Arg Leu Ala Lys Glu Leu Gly
 465 470

<210> 9444

<211> 493

<212> PRT

<213> Enterobacter cloacae

<400> 9444

Arg Met Asn Thr Gln Gln Leu Ala Lys Leu Arg Ser Ile Val Pro Glu
 1 5 10 15
 Met Arg Arg Val Arg His Ile His Phe Val Gly Ile Gly Glu Ala Gly
 20 25 30
 Met Gly Gly Ile Ala Glu Val Leu Ala Asn Glu Gly Tyr Gln Ile Ser
 35 40 45
 Gly Ser Asp Leu Ala Pro Asn Pro Val Thr Gln Gln Leu Ala Ser Leu
 50 55 60
 Gly Ala Thr Ile Tyr Phe Asn His Arg Pro Glu Asn Val Ser Asp Ala
 65 70 75 80
 Ser Val Val Val Val Ser Ser Ala Ile Ser Ala Asp Asn Pro Glu Ile
 85 90 95
 Val Ala Ala His Glu Ala Arg Ile Pro Val Ile Arg Arg Ala Glu Met
 100 105 110
 Leu Ala Glu Leu Met Arg Phe Arg His Gly Ile Ala Val Ala Gly Thr
 115 120 125
 His Gly Lys Thr Thr Thr Thr Ala Met Val Ser Ser Ile Tyr Ala Glu
 130 135 140
 Ala Gly Leu Asp Pro Thr Phe Val Asn Gly Gly Leu Val Lys Ala Ala
 145 150 155 160
 Gly Val His Ala Arg Leu Gly His Ser Arg Tyr Leu Ile Ala Glu Ala
 165 170 175
 Asp Glu Ser Asp Ala Ser Phe Leu His Leu Gln Pro Met Val Ala Ile
 180 185 190
 Val Thr Asn Ile Glu Ala Asp His Met Asp Thr Tyr Gln Gly Asp Phe
 195 200 205

Glu Asn Leu Lys Gln Thr Phe Ile Asn Phe Leu His Asn Leu Pro Phe
 210 215 220
 Tyr Gly Arg Ala Val Met Cys Val Asp Asp Pro Val Ile Arg Glu Leu
 225 230 235 240
 Leu Pro Arg Val Gly Arg Gln Ile Thr Thr Tyr Gly Phe Ser Glu Asp
 245 250 255
 Ala Asp Val Arg Val Glu Asp Tyr Lys Gln Ile Gly Ala Gln Gly His
 260 265 270
 Phe Thr Leu Ala Arg Gln Asp Lys Asp Leu Leu His Val Thr Leu Asn
 275 280 285
 Ala Pro Gly Arg His Asn Ala Leu Asn Ala Ala Val Ala Val
 290 295 300
 Ala Thr Glu Glu Gly Ile Asp Asp Glu Ala Ile Leu Arg Ala Leu Glu
 305 310 315 320
 Ser Phe Gln Gly Thr Gly Arg Arg Phe Asp Phe Leu Gly Glu Phe Pro
 325 330 335
 Leu Glu Pro Val Asn Gly Lys Pro Gly Ser Ala Met Leu Val Asp Asp
 340 345 350
 Tyr Gly His His Pro Thr Glu Val Asp Ala Thr Ile Lys Ala Ala Arg
 355 360 365
 Ala Gly Trp Pro Glu Lys Asn Leu Val Met Ile Phe Gln Pro His Arg
 370 375 380
 Tyr Thr Arg Thr Arg Asp Leu Tyr Asp Asp Phe Ala Asn Val Leu Ser
 385 390 395 400
 Gln Val Asp Thr Leu Leu Met Leu Asp Val Tyr Ala Ala Gly Glu Thr
 405 410 415
 Pro Ile Pro Gly Ala Asp Ser Arg Ser Leu Cys Arg Thr Ile Arg Gly
 420 425 430
 Arg Gly Lys Val Asp Pro Ile Leu Val Pro Asp Pro Ala Gln Val Ala
 435 440 445
 Glu Met Leu Ala Pro Val Leu Thr Gly Asn Asp Leu Ile Leu Ile Gln
 450 455 460
 Gly Ala Gly Asn Ile Gly Lys Ile Ala Arg Thr Leu Ala Glu Ile Lys
 465 470 475 480
 Leu Lys Pro Gln Thr Gln Glu Asp Glu Arg His Gly
 485 490

<210> 9445

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 9445

Thr Leu Leu Leu Leu Ile Arg Pro Cys Trp Arg Arg Asn Gln Gly
 1 5 10 15
 Glu Arg Leu Lys His Gly Gly Arg Lys Arg Gly Val Met Leu Phe Gly
 20 25 30
 Ser Phe Arg Gly Pro Phe Leu Tyr Cys Phe Tyr Arg Tyr Gly Gln Leu
 35 40 45
 Val Ser Phe Arg Thr Leu Gly Arg Thr Glu Ser Met Ala Glu Pro Gln
 50 55 60
 Asn Asp Pro Leu Leu Pro Gly Tyr Ser Phe Asn Ala His Leu Val Ala
 65 70 75 80
 Gly Leu Thr Pro Ile Glu Ala Glu Gly Tyr Leu Asp Phe Tyr Val Asp
 85 90 95
 Arg Pro Leu Gly Met Lys Gly Tyr Ile Leu Asn Leu Thr Val Arg Gly
 100 105 110
 Glu Gly Val Val Lys Asn Gly Asp Gln Gln Phe Ile Cys Arg Pro Gly
 115 120 125
 Asp Met Leu Leu Phe Pro Pro Gly Glu Ile His His Tyr Gly Arg His
 130 135 140

Pro Asp Ala Lys Glu Trp Tyr His Gln Trp Val Tyr Phe Arg Pro Arg
 145 150 155 160
 Ala Tyr Trp Gln Glu Trp Leu Ser Trp Pro Ala Ile Phe Ala His Thr
 165 170 175
 Gly Leu Tyr Arg Pro Asp Glu Ala His Leu Ala Gln Phe Arg Glu Leu
 180 185 190
 Phe Ala Gln Ile Ile Glu Ala Gly Gln Ala Gly Arg Tyr Ala Glu
 195 200 205
 Leu Leu Ala Ile Asn Leu Leu Glu Gln Val Leu Leu Arg Arg Met Glu
 210 215 220
 Ala Ile Asn Glu Ser Leu Asn Pro Pro Leu Asp Asn Arg Val Arg Asp
 225 230 235 240
 Ala Cys Gln Tyr Ile Ser Asp His Leu Ala Asp Ser Gln Phe Asp Ile
 245 250 255
 Ala Ser Val Ala Gln His Val Cys Leu Ser Pro Ser Arg Leu Ser His
 260 265 270
 Leu Phe Arg Gln Gln Leu Gly Val Ser Val Leu Ser Trp Arg Glu Asp
 275 280 285
 Gln Arg Ile Ser Gln Ala Lys Leu Leu Leu Ser Thr Thr Arg Met Pro
 290 295 300
 Ile Ala Thr Val Gly Arg Asn Val Gly Phe Glu Asp Gln Leu Tyr Phe
 305 310 315 320
 Ser Arg Val Phe Lys Lys Cys Thr Gly Ala Ser Pro Ser Glu Phe Arg
 325 330 335
 Ala Gly Cys Glu
 340

<210> 9446

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 9446

Pro Ser Ile Thr Lys Ala Trp Arg Gln Ser Met Glu Met Leu Ser Gly
 1 5 10 15
 Ala Glu Met Val Val Arg Ser Leu Ile Asp Gln Gly Val Lys Gln Val
 20 25 30
 Phe Gly Tyr Pro Gly Gly Ala Val Leu Asp Ile Tyr Asp Ala Leu His
 35 40 45
 Thr Val Gly Gly Ile Asp His Val Leu Val Arg His Glu Gln Ala Ala
 50 55 60
 Val His Met Ala Asp Gly Leu Ala Arg Ala Thr Gly Glu Val Gly Val
 65 70 75 80
 Val Leu Val Thr Ser Gly Pro Gly Ala Thr Asn Ala Ile Thr Gly Ile
 85 90 95
 Ala Thr Ala Tyr Met Asp Ser Ile Pro Leu Val Ile Leu Ser Gly Gln
 100 105 110
 Val Ala Thr Ser Leu Ile Gly Tyr Asp Ala Phe Gln Glu Cys Asp Met
 115 120 125
 Val Gly Ile Ser Arg Pro Val Val Lys His Ser Phe Leu Val Lys Gln
 130 135 140
 Thr Glu Asp Ile Pro Gly Val Leu Lys Lys Ala Phe Trp Leu Ala Ala
 145 150 155 160
 Ser Gly Arg Pro Gly Pro Val Val Val Asp Leu Pro Lys Asp Ile Leu
 165 170 175
 Asn Pro Ala Asn Lys Leu Pro Tyr Leu Trp Pro Glu Ser Val Ser Met
 180 185 190
 Arg Ser Tyr Asn Pro Thr Thr Gln Gly His Lys Gly Gln Ile Lys Arg
 195 200 205
 Ala Leu Gln Thr Leu Leu Ala Ala Lys Lys Pro Val Val Tyr Val Gly
 210 215 220

Gly Gly Ala Val Asn Ala Ala Cys Glu Thr Gln Leu Arg Glu Leu Ile
 225 230 235 240
 Glu Lys Leu Asn Leu Pro Val Ala Ser Ser Leu Met Gly Leu Gly Ala
 245 250 255
 Phe Pro Ala Thr His Arg Gln Ala Leu Gly Met Leu Gly Met His Gly
 260 265 270
 Thr Tyr Glu Ala Asn Met Thr Met His His Ser Asp Val Ile Phe Ala
 275 280 285
 Val Gly Val Arg Phe Asp Asp Arg Thr Thr Asn Asn Leu Ala Lys Tyr
 290 295 300
 Cys Pro His Ala Thr Val Leu His Ile Asp Ile Asp Pro Thr Ser Ile
 305 310 315 320
 Ser Lys Thr Val Pro Ala Asp Val Pro Ile Val Gly Asp Ala Arg Gln
 325 330 335
 Val Leu Asp Gln Met Leu Asp Leu Leu Ala Gln Glu Thr Ala Ser Gln
 340 345 350
 Pro Leu Asp Glu Ile Arg Asp Trp Trp Gln Gln Ile Glu Gln Trp Arg
 355 360 365
 Gly Arg Gln Cys Leu Lys Tyr Asp Thr Gln Ser Glu Asn Ile Lys Pro
 370 375 380
 Gln Ala Val Ile Glu Thr Ile Trp Arg Leu Thr Asn Gly Asp Ala Tyr
 385 390 395 400
 Val Thr Ser Asp Val Gly Gln His Gln Met Phe Ala Ala Leu Tyr Tyr
 405 410 415
 Pro Phe Asp Lys Pro Arg Arg Trp Ile Asn Ser Gly Gly Leu Gly Thr
 420 425 430
 Met Gly Phe Gly Leu Pro Ala Ala Leu Gly Val Lys Leu Ala Leu Pro
 435 440 445
 Asn Glu Thr Val Ile Cys Val Thr Gly Asp Gly Ser Ile Gln Met Asn
 450 455 460
 Ile Gln Glu Leu Ser Thr Ala Leu Gln Tyr Glu Leu Pro Val Leu Val
 465 470 475 480
 Leu Asn Leu Asn Asn Gly Tyr Leu Gly Met Val Lys Gln Trp Gln Asp
 485 490 495
 Met Ile Tyr Ser Gly Arg His Ser Gln Ser Tyr Met Lys Ser Leu Pro
 500 505 510
 Asp Phe Val Arg Leu Ala Glu Ala Tyr Gly His Ile Gly Met Arg Val
 515 520 525
 Thr Asp Pro Ser Glu Leu Glu Ala Lys Leu Gly Glu Ala Leu Glu His
 530 535 540
 Val Lys Asn Asn Arg Leu Val Phe Met Asp Val Ile Val Asp Gly Thr
 545 550 555 560
 Glu His Val Tyr Pro Met His Ile Arg Gly Gly Met Asp Glu Met
 565 570 575
 Trp Leu Ser Lys Thr Glu Arg Thr
 580 585

<210> 9447

<211> 338

<212> PRT

<213> *Enterobacter cloacae*

<400> 9447

Gly Ala Ile Val Lys Leu Asp Glu Ile Ala Arg Leu Ala Gly Val Ser
 1 5 10 15
 Arg Thr Thr Ala Ser Tyr Val Ile Asn Gly Lys Ala Lys Gln Tyr Arg
 20 25 30
 Val Ser Asp Lys Thr Val Glu Lys Val Met Ala Val Val Arg Glu His
 35 40 45
 Asn Tyr His Pro Asn Ala Val Ala Ala Gly Leu Arg Ala Gly Arg Thr
 50 55 60

Arg Ser Ile Gly Leu Val Ile Pro Asp Leu Glu Asn Thr Ser Tyr Thr
 65 70 75 80
 Arg Ile Ala Asn Tyr Leu Glu Arg Gln Ala Arg Gln Arg Gly Tyr Gln
 85 90 95
 Leu Leu Ile Ala Cys Ser Glu Asp Gln Pro Asp Asn Glu Met Arg Cys
 100 105 110
 Ile Glu His Leu Leu Gln Arg Gln Val Asp Ala Ile Ile Val Ser Thr
 115 120 125
 Ser Leu Pro Pro Glu His Pro Phe Tyr Gln Arg Trp Ala Asn Asp Pro
 130 135 140
 Phe Pro Ile Val Ala Leu Asp Arg Ala Leu Asp Arg Glu His Phe Thr
 145 150 155 160
 Ser Val Val Gly Ala Asp Gln Asp Asp Ala Glu Met Leu Ala Ala Glu
 165 170 175
 Leu Arg Thr Phe Pro Ala Glu Thr Val Leu Tyr Leu Gly Ala Leu Pro
 180 185 190
 Glu Leu Ser Val Ser Phe Leu Arg Glu Gln Gly Phe Arg Thr Ala Trp
 195 200 205
 Lys Asp Asp Pro Arg Asp Val His Tyr Leu Tyr Ala Asn Ser Tyr Glu
 210 215 220
 Arg Glu Ala Ala Ala Gln Leu Phe Glu Lys Trp Leu Glu Thr His Pro
 225 230 235 240
 Met Pro Gln Ala Leu Phe Thr Thr Ser Phe Ala Leu Leu Gln Gly Val
 245 250 255
 Met Asp Val Thr Leu Arg Arg Asp Gly Lys Leu Pro Ser Asp Leu Ala
 260 265 270
 Ile Ala Thr Phe Gly Asp Asn Glu Leu Leu Asp Phe Leu Gln Cys Pro
 275 280 285
 Val Leu Ala Val Ala Gln Arg His Arg Asp Val Ala Glu Arg Val Leu
 290 295 300
 Glu Ile Val Leu Ala Ser Leu Asp Glu Pro Arg Lys Pro Lys Pro Gly
 305 310 315 320
 Leu Thr Arg Ile Lys Arg Asn Leu Tyr Arg Arg Gly Ile Leu Ser Arg
 325 330 335
 His

<210> 9448

<211> 171

<212> FRT

<213> Enterobacter cloacae

<400> 9448

Thr Pro Ser Gly Gly Asn Leu Trp Val Lys Val Val Arg Arg Gly Glu
 1 5 10 15
 Thr Gly Met Phe Arg Gly Ala Thr Leu Val Asn Leu Asp Ser Lys Gly
 20 25 30
 Arg Leu Ser Val Pro Thr Arg Tyr Arg Asp Gln Leu Ile Glu Asn Ala
 35 40 45
 Ser Gly Gln Leu Val Cys Thr Ile Asp Ile Asn Ser Pro Cys Leu Leu
 50 55 60
 Leu Tyr Pro Leu Pro Glu Trp Glu Ile Ile Glu Gln Lys Leu Ser Arg
 65 70 75 80
 Leu Ser Ser Met Asn Pro Gln Glu Arg Arg Val Gln Arg Leu Leu Leu
 85 90 95
 Gly His Ala Ser Glu Cys Gln Met Asp Ser Ala Gly Arg Leu Leu Ile
 100 105 110
 Ala Pro Val Leu Arg Gln His Ala Gly Leu Thr Lys Glu Val Met Leu
 115 120 125
 Val Gly Gln Phe Asn Lys Phe Glu Leu Trp Asp Glu Thr Thr Trp Tyr
 130 135 140

Gln Gln Val Lys Glu Asp Ile Asp Ala Glu Gln Ser Asp Ser Glu Thr
 145 150 155 160
 Leu Ser Glu Arg Leu Arg Asp Leu Ser Leu
 165 170

<210> 9449

<211> 376

<212> PRT

<213> *Enterobacter cloacae*

<400> 9449

Cys Arg His Gly Arg Gly Cys Ala Arg Ile Thr Gly Glu Arg Asp Met
 1 5 10 15
 Leu Val Trp Leu Ala Glu His Leu Val Lys Tyr Tyr Ser Gly Phe Asn
 20 25 30
 Val Phe Ser Tyr Leu Thr Phe Arg Ala Ile Val Ser Leu Leu Thr Ala
 35 40 45
 Leu Phe Ile Ser Leu Trp Met Gly Pro Arg Met Ile Ala Arg Leu Gln
 50 55 60
 Lys Leu Ser Phe Gly Gln Val Val Arg Asn Asp Gly Pro Glu Ser His
 65 70 75 80
 Phe Ser Lys Arg Gly Thr Pro Thr Met Gly Gly Ile Met Ile Leu Thr
 85 90 95
 Ala Ile Val Val Ser Val Leu Leu Trp Ala Tyr Pro Ser Asn Pro Tyr
 100 105 110
 Val Trp Cys Val Leu Thr Val Leu Val Gly Tyr Gly Ile Ile Gly Phe
 115 120 125
 Val Asp Asp Tyr Arg Lys Val Val Arg Lys Asp Thr Lys Gly Leu Ile
 130 135 140
 Ala Arg Trp Lys Tyr Phe Trp Met Ser Val Ile Ala Leu Gly Val Ala
 145 150 155 160
 Phe Ala Leu Tyr Leu Ala Gly Lys Asp Thr Pro Ala Thr Glu Leu Val
 165 170 175
 Val Pro Phe Phe Lys Asp Val Met Pro Gln Leu Gly Leu Phe Tyr Ile
 180 185 190
 Leu Leu Ala Tyr Phe Val Ile Val Gly Thr Gly Asn Ala Val Asn Leu
 195 200 205
 Thr Asp Gly Leu Asp Gly Leu Ala Ile Met Pro Thr Val Phe Val Ala
 210 215 220
 Gly Gly Phe Ala Leu Val Ala Trp Ala Thr Gly Asn Met Asn Phe Ala
 225 230 235 240
 Asn Tyr Leu His Ile Pro Tyr Leu Arg His Ala Gly Glu Leu Val Ile
 245 250 255
 Val Cys Thr Ala Ile Val Gly Ala Gly Leu Gly Phe Leu Trp Phe Asn
 260 265 270
 Thr Tyr Pro Ala Gln Val Phe Met Gly Asp Val Gly Ser Leu Ala Leu
 275 280 285
 Gly Gly Ala Leu Gly Ile Ile Ala Val Leu Leu Arg Gln Glu Phe Leu
 290 295 300
 Leu Val Ile Met Gly Gly Val Phe Val Val Glu Thr Leu Ser Val Ile
 305 310 315 320
 Leu Gln Val Gly Ser Phe Lys Leu Arg Gly Gln Arg Ile Phe Arg Met
 325 330 335
 Ala Pro Ile His His Tyr Glu Leu Lys Gly Trp Pro Glu Pro Arg
 340 345 350
 Val Ile Val Arg Phe Trp Ile Ile Ser Leu Met Leu Val Leu Ile Gly
 355 360 365
 Leu Ala Thr Leu Lys Val Arg
 370 375

<210> 9450

<211> 369

<212> PRT

<213> *Enterobacter cloacae*

<400> 9450

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Asn Ala Ser Gly Glu Ser Ser Gly Val Tyr Thr Arg Phe Thr Met Asn
1      5      10      15
Gln Pro Lys Arg Leu Met Val Met Ala Gly Gly Thr Gly Gly His Val
      20      25      30
Phe Pro Gly Leu Ala Val Ala His His Leu Met Glu Gln Gly Trp Gln
      35      40      45
Val Arg Trp Leu Gly Thr Ala Asp Arg Met Glu Ala Asp Leu Val Pro
      50      55      60
Lys His Gly Ile Glu Ile Asp Phe Ile Arg Ile Ser Gly Leu Arg Gly
      65      70      75      80
Lys Gly Ile Lys Ala Leu Leu Leu Ala Pro Val Arg Ile Phe Asn Ala
      85      90      95
Trp Arg Gln Ala Arg Ala Ile Met Lys Arg Phe Lys Pro Asp Val Val
      100      105      110
Leu Gly Met Gly Gly Tyr Val Ser Gly Pro Gly Gly Leu Ala Ala Trp
      115      120      125
Ser Leu Gly Ile Pro Val Val Leu His Glu Gln Asn Gly Ile Ala Gly
      130      135      140
Leu Thr Asn Lys Trp Leu Ala Lys Ile Ala Thr Lys Val Met Gln Ala
      145      150      155      160
Phe Pro Gly Ala Phe Pro Lys Ala Asp Val Val Gly Asn Pro Val Arg
      165      170      175
Val Asp Val Leu Ala Leu Ala Leu Pro Asp Thr Arg Leu Ala Gly Arg
      180      185      190
Glu Gly Pro Val Arg Val Leu Val Val Gly Gly Ser Gln Gly Ala Arg
      195      200      205
Ile Leu Asn Gln Thr Met Pro Gln Val Ala Ala Lys Leu Gly Asp Ala
      210      215      220
Val Thr Ile Trp His Gln Ser Gly Lys Gly Ala Gln Gln Thr Val Glu
      225      230      235      240
Gln Ala Tyr Ala Gln Glu Gly Gln Pro Gln His Lys Val Thr Glu Phe
      245      250      255
Ile Asp Asp Met Ala Ala Tyr Ala Trp Ala Asp Val Val Val Cys
      260      265      270
Arg Ser Gly Ala Leu Thr Val Ser Glu Ile Ala Ala Ala Gly Leu Pro
      275      280      285
Ala Leu Phe Val Pro Phe Gln His Lys Asp Arg Gln Gln Tyr Trp Asn
      290      295      300
Ala Leu Pro Leu Glu Lys Ala Gly Ala Ala Lys Ile Phe Glu Gln Pro
      305      310      315      320
Gln Phe Thr Ala Asp Ala Val Ala Thr Thr Leu Ala Gly Trp Asn Arg
      325      330      335
Asp Val Leu Leu Glu Met Ala Gln Arg Ala Arg Ala Thr Ala Ile Pro
      340      345      350
Asp Ala Thr Glu Arg Val Ala Lys Glu Val Ser Leu Ala Ala Gln Ala
      355      360      365

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<210> 9451

<211> 316

<212> PRT

<213> *Enterobacter cloacae*

<400> 9451

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Ser Arg Lys Leu Arg Arg Thr Ser Val Met Ala Asp Lys Ile Ala Val

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1      5      10      15
Leu Phe Gly Gly Thr Ser Ala Glu Arg Glu Val Ser Leu Asn Ser Gly
20
Ala Ala Val Leu Ala Gly Leu Arg Glu Gly Gly Val Asp Ala His Pro
35
Val Asp Pro Lys Glu Val Asp Val Thr Gln Leu Lys Ala Met Gly Phe
50
Asp Lys Ala Phe Ile Ala Leu His Gly Arg Gly Gly Glu Asp Gly Thr
65
Leu Gln Gly Leu Leu Glu Leu Ile Gly Ile Pro Tyr Thr Gly Ser Gly
85
Val Met Ala Ser Ala Ile Ser Met Asp Lys Leu Arg Ser Lys Leu Leu
100
Trp Gln Gly Ala Gly Leu Pro Val Ala Pro Trp Val Ala Leu Thr Arg
115
Arg Glu Tyr Glu Leu Gly Leu Ser Asp Ser Val Asn Thr Arg Ile Ala
130
Ala Leu Gly Leu Pro Val Ile Val Lys Pro Ser Arg Glu Gly Ser Ser
145
Val Gly Met Ser Lys Val Asp Lys Ala Val Asp Leu Ala Asp Ala Leu
165
Ala Leu Ala Phe Gln His Asp Glu Glu Val Leu Ile Glu Lys Trp Leu
180
Ser Gly Pro Glu Phe Thr Val Ala Met Leu Gly Glu Glu Ile Leu Pro
195
Ser Ile Arg Ile Gln Pro Ala Gly Val Phe Tyr Asp Tyr Glu Ala Lys
210
Tyr Leu Ser Asp Glu Thr Gln Tyr Phe Cys Pro Ala Gly Leu Glu Ala
225
Glu Arg Glu Ala Glu Leu Gln Ser Leu Val Leu Lys Ala Trp Asn Val
245
Leu Gly Cys Arg Gly Trp Gly Arg Ile Asp Val Met Leu Asp Gly Asp
260
Gly Gln Phe Tyr Leu Leu Glu Ala Asn Thr Ser Pro Gly Met Thr Ser
275
His Ser Leu Val Pro Met Ala Ala Arg Gln Ala Gly Met Ser Phe Ser
290
Gln Leu Val Val Arg Ile Leu Asp Gln Ala Gly
305
310
315

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<210> 9452

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 9452

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Phe Ile Asp Thr Pro Pro Ala Gly Ala Ile Leu Ala Ala Lys Leu Leu
1      5      10      15
Pro Glu Thr Gly Gly Asp Thr Leu Trp Ala Ser Gly Ile Ala Ala Phe
20
Glu Ala Leu Ser Ala Pro Leu Gln Thr Leu Leu Ser Gly Gln Arg Ala
35
Glu Gln Asp Phe Lys Lys Ser Phe Gln Glu Asn Lys Asn Arg Lys Thr
50
Glu Glu Glu His Gln Arg Arg Gln Glu Ala Val Glu Lys His Pro Thr
65
Thr Ser Gln Gln His Pro Glu Glu Arg Thr His Pro Glu Thr Gly Lys
85
Gln Ala Gln Lys Glu Lys Glu Gly Lys Thr Thr Arg Ile Glu Asp Glu
100
Ala Glu Lys Glu Ser Glu Ala Gln Leu Gly Asn Gln Lys Ala Gln Ile
110

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115 120 125
 Thr Lys Pro Glu Asn Gln Glu Arg Arg Arg Arg Gln Glu Asn Asp Gln
 130 135 140
 Ala Ile Arg Asp Asn Arg Val Thr Gln His
 145 150 155

<210> 9453
 <211> 243
 <212> PRT
 <213> Enterobacter cloacae

<400> 9453
 Pro Ser Asp Arg Leu Val Lys Thr Ile Val Gln Ala Thr Gly Val Gly
 1 5 10 15
 Leu His Thr Gly Lys Lys Val Thr Leu Thr Leu Arg Pro Ala Pro Ala
 20 25 30
 Asn Thr Gly Val Ile Tyr Arg Arg Thr Asp Leu Asn Pro Pro Val Asp
 35 40 45
 Phe Pro Ala Asp Ala Lys Ser Val Arg Asp Thr Met Leu Cys Thr Cys
 50 55 60
 Leu Val Asn Glu His Asp Val Arg Ile Ser Thr Val Glu His Leu Asn
 65 70 75 80
 Ala Ala Leu Ala Gly Leu Gly Ile Asp Asn Ile Met Val Glu Val Asp
 85 90 95
 Ala Pro Glu Ile Pro Ile Met Asp Gly Ser Ala Ala Pro Phe Val Tyr
 100 105 110
 Leu Leu Leu Asp Ala Gly Ile Glu Glu Leu Asn Cys Ala Lys Lys Phe
 115 120 125
 Val Arg Ile Lys Glu Thr Val Arg Val Glu Asp Gly Asp Lys Trp Ala
 130 135 140
 Glu Phe Lys Pro Tyr Asn Gly Phe Ser Leu Asp Phe Thr Ile Asp Phe
 145 150 155 160
 Asn His Pro Ala Ile Asp Ser Ser Thr Gln Arg Tyr Ala Met Asn Phe
 165 170 175
 Ser Ala Asp Ala Phe Met Arg Gln Ile Ser Arg Ala Arg Thr Phe Gly
 180 185 190
 Phe Met Arg Asp Ile Glu Tyr Leu Gln Ser Arg Gly Leu Cys Leu Gly
 195 200 205
 Gly Ser Phe Asp Cys Ala Ile Val Val Asp Asp Tyr Arg Val Leu Asn
 210 215 220
 Glu Asp Gly Leu Arg Phe Glu Asn Glu Phe Val Arg His Lys Met Leu
 225 230 235 240
 Asp Ala Ile

<210> 9454
 <211> 282
 <212> PRT
 <213> Enterobacter cloacae

<400> 9454
 His Glu Val Ala Leu Ile Tyr Pro Gly Asp Pro Met Ala Ile Lys Leu
 1 5 10 15
 Ile Ala Ile Asp Met Asp Gly Thr Leu Leu Leu Pro Asp His Thr Ile
 20 25 30
 Ser Pro Ala Val Lys Asn Ala Ile Ala Ala Arg Glu Lys Gly Val
 35 40 45
 Asn Val Val Leu Thr Thr Gly Arg Pro Tyr Ala Gly Val His Ser Tyr
 50 55 60
 Leu Lys Glu Leu His Met Asn Gln Pro Gly Asp Tyr Cys Ile Thr Tyr
 65 70 75 80

Asn Gly Ala Leu Val Gln Lys Ala Ala Asp Gly Ser Thr Val Ala Gln
 85 90
 Thr Ala Leu Ser Tyr Asp Asp Tyr Arg Phe Leu Glu Lys Leu Ser Arg
 100 105
 Asp Val Gly Ser His Phe His Ala Leu Asp Arg Asn Thr Leu Tyr Thr
 115 120 125
 Ala Asn Arg Asp Ile Ser Tyr Tyr Thr Val His Glu Ser Tyr Val Ala
 130 135 140
 Thr Ile Pro Leu Val Phe Cys Glu Ala Glu Lys Met Asp Pro Ala Thr
 145 150 155 160
 Gln Phe Leu Lys Val Met Met Ile Asp Glu Pro Ala Val Leu Asp Lys
 165 170 175
 Ala Ile Ser Arg Ile Pro Ala Glu Val Lys Glu Lys Tyr Thr Val Leu
 180 185 190
 Lys Ser Ala Pro Tyr Phe Leu Glu Ile Leu Asp Lys Arg Val Asn Lys
 195 200 205
 Gly Thr Gly Val Lys Ser Leu Ala Asp Ala Leu Gly Ile Lys Pro Glu
 210 215 220
 Glu Ile Met Ala Leu Gly Asp Gln Glu Asn Asp Ile Ala Met Ile Glu
 225 230 235 240
 Tyr Ala Gly Met Gly Val Ala Met Asp Asn Ala Ile Pro Ser Val Lys
 245 250 255
 Glu Val Ala Asn Phe Val Thr Lys Ser Asn Leu Glu Asp Gly Val Ala
 260 265 270
 Trp Ala Ile Glu Lys Phe Val Leu Ser
 275 280

<210> 9455

<211> 326

<212> PRT

<213> *Enterobacter cloacae*

<400> 9455

Ser Ala Val Arg Cys Asp Thr Ala Ser Gly Arg Arg Cys Gly Arg Ala
 1 5 10 15
 Gly Gly Ala Asp His Asp Arg Gln Leu Asp Thr Lys Val Glu Gly Asn
 20 25 30
 His Met Thr Ser Arg Tyr Ile Ala Ile Asp Trp Gly Ser Thr Asn Leu
 35 40 45
 Arg Ala Trp Leu Tyr Gln Gly Glu Gln Cys Leu Glu Ser Arg Gln Ser
 50 55 60
 Glu Ala Gly Val Thr Arg Leu Asn Gly Lys Ser Pro Ala Ala Val Leu
 65 70 75 80
 Ala Glu Val Thr Gln Asn Trp Arg Asp Gly Thr Thr Pro Val Val Met
 85 90 95
 Ala Gly Met Val Gly Ser Asn Val Gly Trp Lys Val Ala Pro Tyr Leu
 100 105 110
 Ser Val Pro Val His Phe Thr Ala Val Gly Glu Gln Leu Thr Ser Val
 115 120 125
 Gly Asp Asn Val Trp Ile Ile Pro Gly Leu Cys Val Ser Arg Asp Asp
 130 135 140
 Asn His Asn Val Met Arg Gly Glu Glu Thr Gln Leu Leu Gly Ala Arg
 145 150 155 160
 Thr Leu Ser Pro Ser Ser Val Tyr Val Met Pro Gly Thr His Cys Lys
 165 170 175
 Trp Val Gln Ala Asp Ala Glu Gln Ile His Asp Phe Arg Thr Val Met
 180 185 190
 Thr Gly Glu Leu His His Leu Leu Leu Lys His Ser Leu Val Gly Thr
 195 200 205
 Gly Leu Pro Glu Gln Thr Pro Ser Pro Glu Ala Phe Ala Ala Gly Leu
 210 215 220

Glu Arg Gly Ile Ala Ser Pro Ala Val Leu Pro Gln Leu Phe Glu Val
 225 230 235 240
 Arg Ala Ser His Val Leu Gly Asn Leu Pro Arg Glu Gln Val Ser Glu
 245 250 255
 Phe Leu Ser Gly Leu Leu Ile Gly Ala Glu Val Ala Thr Leu Ser Asp
 260 265 270
 Ala Phe Ala Gly Gln Gln Ala Ile Thr Leu Val Ala Gly Ser Ser Leu
 275 280 285
 Thr Ser Arg Tyr Arg Gln Ala Phe His Ala Ile Gly Arg Asp Val Ala
 290 295 300
 Ala Val Glu Gly Asp Thr Ala Phe Gln Ala Gly Ile Arg Ser Ile Ala
 305 310 315 320
 His Ala Val Ala Asn
 325

<210> 9456

<211> 112

<212> FRT

<213> Enterobacter cloacae

<400> 9456

Thr Gly Glu Asp Gly Leu Gln Ala Tyr Arg His Thr Glu Tyr Glu Pro
 1 5 10 15
 Arg Gly Asp Pro Pro Gly Gly Gly Val Arg His Asp Arg Leu Pro Gly
 20 25 30
 Leu Arg His Gly Tyr Arg Ser Leu Cys Arg Pro Arg Cys Arg Arg Thr
 35 40 45
 Val Ser Gln Asn Phe Pro Val Val Gly Leu Trp Ser Gly Leu His Gln
 50 55 60
 Ser Ala Glu Ser Gly Leu Thr Arg Gln Arg Ala Gly Leu Cys Arg Gly
 65 70 75 80
 Arg Arg His Ala Gly Lys Pro Gly Ala Val Asp Lys Ser Gly Leu Cys
 85 90 95
 Gly Arg Arg Ala Gly Gln Arg Ser Leu Ser Cys Arg Thr Ala Arg
 100 105 110

<210> 9457

<211> 401

<212> FRT

<213> Enterobacter cloacae

<400> 9457

Ala Tyr Arg Thr Ala Gly Gly Ser Ile Cys Glu Ser Val Ser Arg Gly
 1 5 10 15
 Ser Ala Met Lys Ile Thr Lys Leu Thr Thr Tyr Arg Leu Pro Pro Arg
 20 25 30
 Trp Met Phe Leu Lys Ile Glu Thr Asp Glu Gly Val Val Gly Trp Gly
 35 40 45
 Glu Pro Val Ile Glu Gly Arg Ala Arg Thr Val Glu Ala Ala Val His
 50 55 60
 Glu Leu Gly Glu Tyr Leu Ile Gly Gln Asp Pro Ala Arg Ile Asn Asp
 65 70 75 80
 Leu Trp Gln Val Met Tyr Arg Ala Gly Phe Tyr Arg Gly Gly Pro Ile
 85 90 95
 Leu Met Ser Ala Ile Ala Gly Ile Asp Gln Ala Leu Trp Asp Ile Lys
 100 105 110
 Gly Lys Val Leu Asn Ala Pro Val Trp Gln Leu Met Gly Gly Leu Val
 115 120 125
 Arg Asp Lys Ile Lys Ala Tyr Ser Trp Val Gly Gly Asp Arg Pro Ala
 130 135 140
 Glu Val Ile Asp Gly Ile Arg Gln Leu Arg Asn Ile Gly Phe Asp Thr

145 150 155 160
 Phe Lys Leu Asn Gly Cys Glu Glu Met Gly Val Ile Asp Asn Ser Arg
 165 170 175
 Ala Val Asp Arg Ala Val Asn Thr Val Ala Gln Ile Arg Glu Ala Phe
 180 185 190
 Gly Asn Glu Ile Glu Phe Gly Leu Asp Phe His Gly Arg Val Ser Ala
 195 200 205
 Pro Met Ala Lys Val Leu Ile Lys Glu Leu Glu Pro Tyr Arg Pro Leu
 210 215 220
 Phe Ile Glu Glu Pro Val Leu Ala Glu Gln Ala Glu Tyr Tyr Pro Lys
 225 230 235 240
 Leu Ala Glu Gln Thr His Ile Pro Ile Ala Ala Gly Glu Arg Met Phe
 245 250 255
 Ser Arg Phe Glu Phe Lys Arg Val Leu Glu Ala Gly Gly Ile Ala Ile
 260 265 270
 Leu Gln Pro Asp Leu Ser His Ala Gly Gly Ile Thr Glu Cys Tyr Lys
 275 280 285
 Ile Ala Gly Met Ala Glu Ala Tyr Asp Val Ala Leu Ala Pro His Cys
 290 295 300
 Pro Leu Gly Pro Ile Ala Leu Ala Ala Cys Leu His Val Asp Phe Val
 305 310 315 320
 Ser Arg Asn Ala Val Phe Gln Glu Gln Ser Met Gly Ile His Tyr Asn
 325 330 335
 Lys Gly Ala Glu Leu Leu Asp Phe Val Lys Asn Lys Glu Asp Phe Ser
 340 345 350
 Met Glu Gly Gly Phe Phe Lys Pro Leu Thr Lys Pro Gly Leu Gly Val
 355 360 365
 Glu Ile Asp Glu Ala Lys Val Ile Glu Leu Ser Lys Ser Ala Pro Asp
 370 375 380
 Trp Arg Asn Pro Leu Trp Arg His Glu Asp Gly Ser Val Ala Glu Trp
 385 390 395 400

<210> 9458

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 9458

Arg Ile Pro Phe Thr Phe Leu Ile Lys Lys Thr Lys Tyr Thr Leu Cys
 1 5 10 15
 Lys Leu Gln Gly Met Val Ser Gly Phe Ala Met Pro Lys Ile Trp Arg
 20 25 30
 Gln Ile Ala Met Asp Ile Pro Val Thr Ala Ala Lys Thr Gly Arg Arg
 35 40 45
 Arg Tyr Leu Thr Leu Ile Met Ile Phe Ile Thr Val Val Ile Cys Tyr
 50 55 60
 Val Asp Arg Ala Asn Leu Ala Val Ala Ser Ala His Ile Gln Glu Glu
 65 70 75 80
 Phe Gly Ile Thr Lys Ala Glu Met Gly Tyr Val Phe Ser Ala Phe Ala
 85 90 95
 Trp Leu Tyr Thr Leu Cys Gln Ile Pro Gly Gly Trp Phe Leu Asp Arg
 100 105 110
 Val Gly Ser Arg Leu Thr Tyr Phe Ile Ala Ile Phe Gly Trp Ser Val
 115 120 125
 Ala Thr Leu Phe Gln Gly Phe Ala Thr Gly Leu Met Ser Leu Ile Gly
 130 135 140
 Leu Arg Ala Ile Thr Gly Val Phe Glu Ala Pro Ala Phe Pro Thr Asn
 145 150 155 160
 Asn Arg Met Val Thr Ser Trp Phe Pro Glu His Glu Arg Ala Ser Ala

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165 170 175
Val Gly Phe Tyr Thr Ser Gly Gln Phe Val Gly Leu Ala Phe Leu Thr
180 185 190
Pro Leu Leu Ile Trp Ile Gln Glu Leu Leu Ser Trp His Trp Val Phe
195 200 205
Ile Val Thr Gly Gly Ile Gly Ile Ile Trp Ser Leu Ile Trp Phe Lys
210 215 220
Val Tyr Gln Pro Pro Arg Leu Thr Lys Ser Ile Thr Lys Ala Glu Leu
225 230 235
Asp Tyr Ile Arg Asp Gly Gly Gly Leu Val Asp Gly Asp Ala Pro Val
245 250 255
Lys Lys Glu Ala Arg Gln Pro Leu Thr Arg Ala Asp Trp Lys Leu Val
260 265 270
Phe His Arg Lys Leu Val Gly Val Tyr Leu Gly Gln Phe Ala Val Thr
275 280 285
Ser Thr Leu Trp Phe Phe Leu Thr Trp Phe Pro Asn Tyr Leu Thr Gln
290 295 300
Glu Lys Gly Ile Thr Ala Leu Lys Ala Gly Phe Met Thr Thr Val Pro
305 310 315
Phe Leu Ala Ala Phe Phe Gly Val Leu Leu Ser Gly Trp Leu Ala Asp
325 330 335
Lys Leu Val Lys Lys Gly Phe Ser Leu Gly Val Ala Arg Lys Thr Pro
340 345 350
Ile Ile Cys Gly Leu Leu Ile Ser Thr Cys Ile Met Gly Ala Asn Tyr
355 360 365
Thr Asn Asp Pro Val Trp Ile Met Thr Leu Met Ala Val Ala Phe Phe
370 375 380
Gly Asn Gly Phe Ala Ser Ile Thr Trp Ser Leu Val Ser Ser Leu Ala
385 390 395
Pro Met Arg Leu Ile Gly Leu Thr Gly Gly Val Phe Asn Phe Val Gly
405 410 415
Gly Leu Gly Gly Ile Thr Val Pro Leu Val Ile Gly Tyr Leu Ala Gln
420 425 430
Asp Tyr Gly Phe Gly Pro Ala Leu Val Tyr Ile Ser Ala Val Ala Leu
435 440 445
Ile Gly Ala Leu Ser Tyr Ile Leu Leu Val Gly Asp Val Lys Arg Val
450 455 460
Gly
465

```

<210> 9459

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 9459

```

Ser Leu Arg Met Phe Tyr Pro Asp Ala Ile Thr Ala His Gln Gly Ile
1 5 10 15
Phe Met Lys Gln Ile Thr Phe Ala Ser Arg Asn His Gln Leu Thr Asn
20 25 30
Ile Asn Thr Trp Thr Pro Asp Ser Gln Trp Leu Val Tyr Asp Val Arg
35 40 45
Pro Ser Gly Ala Ser Phe Thr Gly Glu Thr Ile Glu Arg Val Asn Val
50 55 60
Ser Thr Gly Glu Val Glu Ala Ile Tyr Arg Ala Thr Asp Gly Ala His
65 70 75 80
Val Gly Val Val Thr Val His Pro Ala Gln Asp Lys Tyr Val Phe Ile
85 90 95
His Gly Pro Lys Asn Pro Asp Ala Asp Trp Gln Tyr Asp Phe His His
100 105 110
Arg Gln Gly Val Ile Ala His Asn Gly Gln Val Ser Asn Leu Asp Ala

```

```

115          120          125
Met Asp Ile Thr Ala Pro Tyr Thr Ala Gly Ala Leu Arg Gly Gly Thr
130          135          140
His Val His Val Phe Ser Pro Asn Gly Gln Phe Val Ser Phe Thr Tyr
145          150          155          160
Asn Asp His Val Leu His Ala Arg Asp Pro Gln Leu Asp Leu Arg Asn
165          170          175
Val Gly Val Ala Ala Pro Phe Gly Pro Val Asn Pro Gln Gly Asn His
180          185          190
Pro Arg Glu Tyr Ala Gly Thr Phe Trp Ser Val Leu Val Ser Arg Thr
195          200          205
Thr Pro Asn Pro Lys Pro Gly Ser Asp Glu Val Asn Arg Ala Tyr Glu
210          215          220
Glu Gly Trp Val Gly Asn Asp Arg Leu Ala Phe Ile Gly Asp Thr Val
225          230          235          240
Ser Ala Lys Gly Glu Lys Val Pro Glu Leu Phe Ile Val Asp Leu Pro
245          250          255
Lys Asp Glu Gln Gly Trp Lys Arg Ala Gly Asp Ala Pro Leu Gln Gly
260          265          270
Thr Pro Asp Thr Met Pro Ala Pro Ala Gly Val Met Gln Arg Arg
275          280          285
Leu Thr Phe Thr His Gln Lys Ala Tyr Pro Gly Leu Val Asn Val Pro
290          295          300
Arg His Trp Val Arg Ser Asn Pro Gln Gly Thr Gln Val Ala Phe Leu
305          310          315          320
Met Arg Asp Asp Asn Gly Val Val Gln Leu Trp Leu Ile Ser Pro Glu
325          330          335
Gly Gly Glu Pro Arg Gln Leu Thr His Ser Glu Ser Asp Ile Gln Ser
340          345          350
Ala Phe Asn Trp His Pro Ser Gly Arg Thr Leu Gly Phe Val Leu Glu
355          360          365
Ser Arg Ile Ala Cys Cys Asp Ala Gln Thr Gly Glu Val Thr Phe Leu
370          375          380
Thr Ser Asp His Gly Asn Pro Pro Ser Ala Asp Ala Val Val Phe Ser
385          390          395          400
Pro Asp Gly Arg Phe Ile Ala Trp Met Glu Ala Lys Asp Gly Phe Arg
405          410          415
Gln Leu Trp Leu Thr Glu Thr Ala Gln Asn
420          425

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<210> 9460

<211> 155

<212> PRT

<213> *Enterobacter cloacae*

<400> 9460

```

Thr Val Pro Asn Ser Leu Leu Arg Arg Arg Phe Ser Met Arg Asn Tyr
1          5          10          15
Asp Phe Ser Pro Leu Leu Arg Gln Trp Ile Gly Phe Asp Lys Leu Ala
20          25          30
Asn Ala Leu Gln Ser Ala Thr Glu Gln Gln Thr Phe Pro Tyr Asn
35          40          45
Ile Glu Lys Ser Asp Asp Asn His Tyr Arg Ile Thr Leu Ala Leu Ala
50          55          60
Gly Phe Arg Gln Glu Asp Leu Asp Ile Gln Leu Glu Gly Ala Arg Leu
65          70          75          80
Thr Val Lys Gly Ser Pro Glu Lys Pro Asp Thr Glu Thr Lys Trp Leu
85          90          95
His Gln Gly Leu Val Thr Gln Pro Phe Ser Leu Ser Phe Thr Leu Ala
100          105          110
Asp His Met Glu Val Ser Gly Ala Thr Phe Thr Asn Gly Leu Leu Asn

```

115 120 125
 Ile Asp Leu Thr Arg Asn Val Pro Glu Ala Ile Ala Pro Gln Arg Ile
 130 135 140
 Ala Ile Ser Glu Arg Pro Ala Leu Asn Ser
 145 150 155

<210> 9461

<211> 617

<212> PRT

<213> Enterobacter cloacae

<400> 9461

Ser Cys Ala Gly Trp Cys Pro His Pro Asp Pro Leu Pro Val Gly Glu
 1 5 10 15
 Gly Ala Asn Thr Lys Asn Gly His Leu Arg Val Thr Val Leu Arg Leu
 20 25 30
 Pro Ser Ala Phe Leu Cys Ala Ile Ala His Thr Thr Ala Ala Ser Ser
 35 40 45
 Glu Arg Ile Leu Ile Ile Thr Lys Val Ile His Arg Met Trp Asn Met
 50 55 60
 Ser Asp Ile Ala Leu Thr Val Ser Val Leu Ala Leu Val Ala Val Val
 65 70 75 80
 Gly Leu Trp Leu Gly Asn Ile Lys Ile Arg Gly Val Gly Phe Gly Ile
 85 90 95
 Gly Gly Val Leu Phe Gly Gly Ile Phe Val Gly His Phe Ala Asp Gln
 100 105 110
 Leu Gly Trp Val Leu Ser Ala Asp Met Leu His Phe Ile Gln Glu Phe
 115 120 125
 Gly Leu Ile Leu Phe Val Tyr Thr Ile Gly Ile Gln Val Gly Pro Gly
 130 135 140
 Phe Phe Ala Ser Leu Arg Ile Ser Gly Leu Arg Leu Asn Leu Phe Ala
 145 150 155 160
 Phe Gly Ile Val Val Met Gly Gly Leu Val Thr Ala Ile Leu His Lys
 165 170 175
 Leu Phe Ala Ile Pro Leu Pro Val Val Leu Gly Ile Phe Ser Gly Ala
 180 185 190
 Val Thr Asn Thr Pro Ala Leu Gly Ala Gly Gln Gln Ile Leu Arg Asp
 195 200 205
 Leu Gly Ile Pro Ala Asp Val Val Asp Gln Met Gly Met Ser Tyr Ala
 210 215 220
 Met Ala Tyr Pro Phe Gly Ile Cys Gly Ile Leu Leu Ser Met Trp Leu
 225 230 235
 Val Arg Val Leu Phe Arg Val Asn Val Gly Gln Glu Ala Lys Glu His
 245 250 255
 Glu Ser Thr Leu Thr Asn Gly His Ala Leu Ile Lys Thr Ile Asn Ile
 260 265 270
 Arg Val Glu Asn Pro Asn Leu Asn Asn Met Ala Ile Gln Asp Val Pro
 275 280 285
 Ile Leu Asn Ser Ala Thr Ile Ile Cys Ser Arg Leu Lys Arg Asp Asp
 290 295 300
 Thr Leu Met Val Pro Ser Pro Asp Thr Leu Ile Gln His Gly Asp Leu
 305 310 315 320
 Leu His Leu Val Gly Gln Pro Ala Asp Leu Asn Asn Ala Arg Leu Val
 325 330 335
 Ile Gly Gln Glu Val Asp Thr Ser Leu Ser Thr Arg Gly Thr Asp Met
 340 345 350
 Arg Val Glu Arg Val Val Val Thr Asn Glu Lys Val Leu Gly Lys Lys
 355 360 365
 Ile Arg Asp Leu Gln Val Lys Glu Arg Tyr Asp Val Val Ile Ser Arg
 370 375 380
 Leu Asn Arg Ala Gly Val Glu Leu Val Ala Ser Gln Asp Ala Ser Leu

```

385          390          395          400
Gln Phe Gly Asp Ile Leu Asn Leu Val Gly Arg Pro Ser Ser Ile Asp
      405      410
Ala Val Ala Asp Met Val Gly Asn Ala Gln Gln Lys Leu Gln Gln Val
      420      425
Gln Met Leu Pro Val Phe Ile Gly Val Gly Leu Gly Val Met Leu Gly
      435      440
Ser Ile Pro Leu Tyr Val Pro Gly Phe Pro Val Ala Leu Lys Leu Gly
      450      455      460
Leu Ala Gly Gly Pro Leu Ile Met Ala Leu Ile Leu Gly Arg Ile Gly
465      470      475      480
Ser Ile Gly Lys Leu Tyr Trp Phe Met Pro Pro Ser Ala Asn Leu Ala
      485      490      495
Leu Arg Glu Leu Gly Ile Val Leu Phe Leu Ala Val Val Gly Leu Lys
      500      505      510
Ser Gly Gly Asp Phe Val Asp Thr Leu Val Asn Gly Glu Gly Met Ser
      515      520      525
Trp Val Gly Tyr Gly Ile Phe Ile Thr Ala Ile Pro Leu Ile Thr Val
      530      535      540
Gly Leu Leu Ala Arg Met Phe Ala Lys Met Asn Tyr Leu Thr Leu Cys
545      550      555      560
Gly Met Leu Ala Gly Ser Met Thr Asp Pro Pro Ala Leu Ala Phe Ala
      565      570      575
Asn Asn Leu His Ala Thr Ser Gly Ala Ala Ala Leu Ser Tyr Ala Thr
      580      585      590
Val Tyr Pro Leu Val Met Phe Leu Arg Ile Ile Thr Pro Gln Leu Leu
      595      600      605
Ala Val Leu Phe Trp Gly Met Gly
      610      615

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<210> 9462

<211> 558

<212> PRT

<213> Enterobacter cloacae

<400> 9462

```

Lys Thr Ile Lys Ala Ser Ile Pro Tyr Arg Leu Phe His Glu Asp Leu
1          5          10          15
Lys Met Leu Ser Gln Ile Gln Arg Phe Gly Gly Ala Met Phe Thr Pro
      20      25      30
Val Leu Leu Phe Pro Phe Ala Gly Ile Val Val Gly Ile Ala Ile Met
      35      40      45
Leu Arg Asn Pro Leu Phe Val Gly Glu Ala Leu Thr Ala Pro Asp Asn
      50      55      60
Leu Phe Ala Gln Ile Val His Ile Ile Glu Glu Gly Gly Trp Ala Val
65      70      75      80
Phe Arg Asn Met Pro Leu Ile Phe Ala Val Gly Leu Pro Ile Gly Leu
      85      90      95
Ala Lys Gln Ala Gln Gly Arg Ala Cys Leu Ala Val Leu Ile Ser Phe
      100      105      110
Leu Thr Trp Asn Tyr Phe Ile Asn Ala Met Gly Met Thr Trp Gly His
      115      120      125
Phe Phe Gly Val Asp Phe Ser Ala Glu Pro Thr Ala Gly Ser Gly Leu
      130      135      140
Ala Met Ile Ala Gly Ile Lys Thr Leu Asp Thr Ser Ile Ile Gly Ala
145      150      155      160
Ile Ile Ile Ser Gly Leu Val Thr Ala Ile His Asn Arg Phe Phe Asp
      165      170      175
Lys Pro Leu Pro Val Phe Leu Gly Ile Phe Gln Gly Thr Ser Phe Val
      180      185      190
Val Ile Leu Ala Phe Phe Val Met Ile Pro Cys Ala Trp Leu Thr Leu

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195 200 205
 Leu Gly Trp Pro Lys Val Gln Met Gly Ile Glu Ser Leu Gln Ala Phe
 210 215 220
 Leu Arg Thr Ala Gly Ala Leu Gly Val Trp Val Tyr Thr Phe Leu Glu
 225 230 235 240
 Arg Ile Leu Ile Pro Thr Gly Leu His Phe Val Tyr Gly Pro Phe
 245 250 255
 Ile Phe Gly Pro Ala Ala Val Glu Gly Gly Ile Gln Val Tyr Trp Ala
 260 265 270
 Gln His Leu Gln Glu Phe Ser Gln Ser Thr Val Pro Leu Lys Thr Leu
 275 280 285
 Phe Pro Glu Gly Gly Phe Ala Leu His Gly Asn Ser Lys Val Phe Gly
 290 295 300
 Ser Val Gly Ile Ala Leu Ala Ile Trp Tyr Thr Ala Ser Pro Glu Asn
 305 310 315 320
 Arg Val Lys Val Ala Gly Leu Leu Ile Pro Ala Thr Leu Thr Ala Val
 325 330 335
 Leu Val Gly Ile Thr Glu Pro Leu Glu Phe Thr Phe Ile Ser
 340 345 350
 Pro Leu Leu Phe Ala Ile His Ala Val Leu Ala Ala Thr Met Ala Thr
 355 360 365
 Val Met Tyr Ile Phe Gly Val Val Gly Asn Met Gly Gly Gly Leu Leu
 370 375 380
 Asp Gln Phe Leu Pro Gln Asn Trp Ile Pro Met Phe His Asn His Ala
 385 390 395 400
 Ser Thr Val Phe Thr Gln Ile Gly Ile Gly Leu Cys Phe Thr Gly Ile
 405 410 415
 Tyr Phe Val Val Phe Arg Thr Leu Ile Glu Arg Leu Asn Leu Lys Thr
 420 425 430
 Pro Gly Arg Glu Glu Ser Glu Ile Lys Leu Tyr Ser Lys Ala Asp Tyr
 435 440 445
 Lys Ala Ala Arg Gly Gln Thr Thr Ala Pro Ala Ala Ala Ser Gln Gln
 450 455 460
 Val Gly Gln Ala Ala Gly Phe Leu Gln Ala Leu Gly Gly Ala Ala Asn
 465 470 475 480
 Ile Glu Ser Ile Asn Asn Cys Ala Thr Arg Leu Arg Ile Ala Leu Val
 485 490 495
 Asp Met Thr Lys Thr Gln Ser Asp Asp Val Phe Lys Ala Leu Gly Ala
 500 505 510
 His Gly Val Val Arg Arg Gly Asn Gly Ile Gln Val Ile Val Gly Leu
 515 520 525
 His Val Pro Gln Val Arg Asp Gln Leu Glu Ser Leu Met Lys Thr Pro
 530 535 540
 Leu Thr Asn Glu Gln Thr Thr Leu Thr Glu Ala Ile Ser
 545 550 555

<210> 9463

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 9463

Tyr Val Ser Ser Arg Ser Asp Asn Glu Arg Lys Gln Glu Cys Ala Ala
 1 5 10 15
 Lys Cys Lys His Arg Gly Asp Lys Arg Arg Arg Arg Ile Val Phe Glu
 20 25 30
 Gly Leu Ile Gln Gly Arg Ala Ala Val Leu Leu Asn Gln Pro Glu Glu
 35 40 45
 Arg Ile Gly His Asp Arg Ala Ala Asn Ser Ala Gly Pro Asp Gly Asn
 50 55 60
 Gly Asp Asp Leu Arg Ala Tyr Val Arg Val Glu Arg Gln His Arg Arg


```

65              70              75              80
His Tyr Arg Arg Gly Thr His His Arg Tyr Arg Cys Arg Thr His Gly
85
Gly Val Gln His Gln Cys His Gln Pro Gly Glu Lys Asp Arg Val His
100
Met Gln Val Arg Glu Asn Met Arg Gln Arg Leu Arg Gln Thr Thr Gly
115
Phe Lys Asp Gly Val Glu Arg Pro Ala Arg Thr Asp Asn Gln Gln Asn
130
Val Gly Asp Arg Ala Lys Ala Val Leu Arg Met Gly Gln His Cys Ala
145
His Ala His Val Leu Ala Asp Pro Gln Gln Val Ile Gly Asp Lys His
165
Gly Asp Lys His Arg Gly Asp Gly Val Ala Asp Lys Leu Gln Gln Gly
180
Ile Gln Arg Ala Phe Phe Arg His Val Gln Leu Gly Asn Gly Phe His
195
Gln His Gln Gly Asn Arg Gln Gln His Gly Glu Gln Arg Gly Ala Gln
210
Arg Arg Gln Ser Val Leu Phe Pro His Leu Gln Val
225
230
235

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<210> 9464

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 9464

```

Thr Gln Lys Leu Arg Val Gly Ile Val Met Thr Asp Ala Asn Glu Gly
1      5      10
Arg Asn Arg Leu Leu Asn Gly Trp Gln Leu Ser Lys Met Tyr Thr Phe
20
Glu Val Ala Ala Arg His Glu Ser Phe Ala Leu Ala Ala Glu Leu
35
Ser Leu Ser Pro Ser Ala Val Ser His Arg Ile Asn Leu Leu Glu Glu
50
Glu Leu Gly Ile Gln Leu Phe Val Arg Ser His Arg Lys Val Glu Leu
65
Thr Gln Glu Gly Lys Arg Val Tyr Trp Thr Leu Lys Ser Ser Leu Asp
85
Thr Leu Asn Gln Glu Ile Leu Asp Ile Lys Asn Gln Ala Leu Ser Gly
100
Thr Leu Thr Val Tyr Ser Arg Pro Ser Ile Ala Gln Cys Trp Leu Val
115
Pro Met Leu Gly Asp Phe Thr Arg Arg Tyr Pro Ser Ile Ser Leu Thr
130
Ile Leu Thr Gly Asn Asp Tyr Val Asn Met Gln Arg Thr Gly Ile Asp
145
Leu Ala Leu Tyr Phe Asp Asp Thr Pro Pro Asn His Leu Ser His His
165
Phe Leu Met Asp Glu Glu Ile Leu Pro Val Cys Ser Pro Ala Tyr Ala
180
Arg Glu His Glu Leu Leu Lys Asn Pro His Asn Leu Ser His Cys Thr
195
Leu Leu His Asp Arg Gln Ala Trp Ser Asn Asp Ser Gly Thr Asp Glu
210
Trp Leu Ser Trp Ala Gln His Phe Ala Val Asn Met Pro Leu Ser Ser
225
Gly Ile Gly Phe Asp Arg Ser Asp Leu Ala Ile Ile Ala Ala Met Ser
245
Asn Val Gly Val Ala Met Gly Arg Lys Arg Leu Val Gln Lys Arg Leu
255

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260 265 270
 Glu Arg Gly Glu Leu Ile Ala Pro Phe Asp Gly Glu Thr Leu Lys Cys
 275 280 285
 His Gln His Tyr Tyr Val Ser Thr Leu Pro Gly Arg Gln Trp Pro Lys
 290 295 300
 Ile Asp Ala Phe Ile Gly Trp Leu Arg Glu Leu Ala Gly
 305 310 315

<210> 9465

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 9465

Thr Val Leu Lys Pro Phe Ile Ala Thr Ala Ile Leu Leu Ser Ser Gly
 1 5 10 15
 Trp Ala Thr Ala Ala Glu Pro Pro Leu Thr Ala Ala Arg Trp Ala Gln
 20 25 30
 Met Leu Gly Val Gly Met Asp Val Asp Trp Ala Arg Thr Glu Arg Gly
 35 40 45
 Ile Arg Glu Phe Asp Pro Leu Val Val Arg Asp Phe Gln Ala Lys Gly
 50 55 60
 Ile His His Val Arg Ile Arg Val Ala Gly Glu Pro Thr Glu Ala Arg
 65 70 75 80
 Leu Ile His Leu Arg Lys Leu Val Glu Ala Cys Glu Gln Tyr Gly Val
 85 90 95
 Ile Pro Ile Ile Ala Tyr Gln Ala Asp Glu Tyr Lys Asn Asp Pro Lys
 100 105 110
 Ala Asp Thr Glu Lys Glu Val Ile Asn Trp Trp Ile Ala Val Ala His
 115 120 125
 Tyr Phe Gly Gln Arg Ser Pro Leu Leu Gly Phe Asp Leu Ile Tyr Glu
 130 135 140
 Pro Ala Asp Lys Leu Asn His Asn Val Ala Ser Leu Asn Arg Val Tyr
 145 150 155 160
 Glu Lys Ala Ile Lys Asp Ile His Ala Ile Asp Ala Ser Arg Met Ile
 165 170 175
 Phe Ile Ala Pro Arg Leu Arg Ala Ala Pro Glu Asp Leu Ser Thr Leu
 180 185 190
 Lys Leu Pro Ala His Ser Gln Asn Tyr Leu Leu Ala Glu Trp His Ile
 195 200 205
 Phe Pro Trp Gly Pro Leu Lys Thr Asn Gly Lys Tyr Pro Trp Thr Ser
 210 215 220
 Gly Thr Ala Ala Glu Lys Ala Ala Ile Arg Asn Arg Ile Asn Ala Ala
 225 230 235 240
 Leu His Trp Gln Gln Lys Thr Gly His Val Ser Trp Val Gly Gly Trp
 245 250 255
 Gly Val Gly Glu Ser Lys Ser Leu Thr Pro Thr Ala Ser Gln Met Ala
 260 265 270
 Phe Ala Thr Phe Met Ala Cys Glu Leu Gln His Ala Asn Ile Pro Tyr
 275 280 285
 Ala Ile Asn Ala Asp Val Gln Phe Tyr Asp Gly Glu Glu Gly Ala Trp
 290 295 300
 Arg Pro Ala Pro Glu Arg Leu Leu Gln Ala Met Ile Ala Pro Val Cys
 305 310 315 320
 Glu Lys Pro Gly Glu Lys Pro Gly His His Ala Val Lys Pro Ala Val
 325 330 335
 Arg Asp Ala Arg His Ala Thr Pro Ala Ala Ala Ser Thr Ala Lys Ser
 340 345 350
 Ala Ala Pro Ser Gly Ser Ser Ala Ser Leu Asn Ser Pro Ala Arg Ser
 355 360 365
 Ala Ala Ser

370

<210> 9466
 <211> 154
 <212> PRT
 <213> Enterobacter cloacae

<400> 9466
 Gly Glu Arg Met Val Trp Ile Met Leu Ala Thr Leu Ala Val Val Phe
 1 5 10 15
 Val Val Gly Phe Arg Val Leu Thr Ser Asp Ser Arg Arg Ala Ile Lys
 20 25 30
 Arg Leu Ser Glu Arg Leu Gly Ile Thr Pro Met Pro Val Glu Ser Met
 35 40 45
 Ile Asp Gln Phe Gly Lys Thr Pro Gly Asn Glu Phe Ile Arg Tyr Leu
 50 55 60
 Glu Arg Pro Asp Glu Ala His Leu Gln Asn Ala Ala Gln Val Leu Leu
 65 70 75 80
 Ile Trp Gln Val Cys Ile Val Asp Gly Ser Glu Glu Asn Leu His Thr
 85 90 95
 Trp His Arg Met Leu Arg Lys Ala Arg Leu Ala Ala Pro Ile Thr Asp
 100 105 110
 Ala Gln Ile Arg Leu Ala Leu Gly Phe Met Arg Glu Ile Glu Pro Asp
 115 120 125
 Pro Gln Glu Leu Asp Ala Phe Gln Leu Arg Tyr Asn Gln Leu Phe Leu
 130 135 140
 Pro Glu Glu Gly Val Phe Tyr Leu His
 145 150

<210> 9467
 <211> 411
 <212> PRT
 <213> Enterobacter cloacae

<400> 9467
 Thr Ala Arg Leu Phe Arg Thr Phe Leu Ser Ser Gly Asp Ala Met Thr
 1 5 10 15
 Glu His Ile Gln Pro Thr Thr Arg Pro Gln Thr Lys Glu Val Ser Arg
 20 25 30
 Pro Asn Trp Ser Ala Val Phe Ser Val Ala Phe Cys Val Ala Cys Leu
 35 40 45
 Ile Thr Val Glu Phe Leu Pro Val Ser Leu Leu Thr Pro Met Ala Gln
 50 55 60
 Asp Leu Gly Ile Ser Glu Gly Val Ala Gly Gln Ser Val Thr Val Thr
 65 70 75 80
 Ala Phe Val Ala Met Phe Ala Ser Leu Phe Ile Thr Gln Ala Ile Gly
 85 90 95
 Thr Ile Asp Arg Arg Lys Val Val Ile Leu Phe Ser Val Leu Leu Thr
 100 105 110
 Leu Ser Cys Leu Leu Val Ser Phe Ala Glu Ser Phe Thr Leu Leu Leu
 115 120 125
 Leu Gly Arg Ala Cys Leu Gly Leu Gly Leu Gly Phe Trp Ala Met
 130 135 140
 Ser Ala Ser Leu Thr Met Arg Leu Val Pro Ala Arg Thr Val Pro Lys
 145 150 155 160
 Ala Leu Ser Val Ile Phe Gly Ala Val Ser Ile Ala Leu Val Ile Ala
 165 170 175
 Ala Pro Leu Gly Ser Phe Leu Gly Gly Ile Ile Gly Trp Arg Asn Val
 180 185 190
 Phe Asn Ala Ala Ala Val Met Gly Val Leu Cys Ile Ile Trp Val Trp
 195 200 205

Lys Ala Leu Pro Ser Leu Pro Gly Glu Ala Ala His Lys Gln Asn
 210 215 220
 Met Phe Ala Leu Leu Lys Arg Pro Gly Val Leu Ala Gly Met Thr Ala
 225 230 235 240
 Ile Phe Met Ala Phe Ala Gly Gln Phe Ala Phe Phe Thr Tyr Ile Arg
 245 250 255
 Pro Val Tyr Met Thr Met Ala Gly Phe Asp Val Asp Gly Leu Thr Leu
 260 265 270
 Val Leu Leu Ser Phe Gly Ile Ala Ser Phe Val Gly Thr Ser Leu Ser
 275 280 285
 Ser Gln Phe Leu Lys Arg Ser Leu Lys Val Ala Leu Ala Gly Ala Pro
 290 295 300
 Leu Val Leu Ala Ile Ser Ala Ala Val Leu Val Leu Trp Gly Ser Asp
 305 310 315 320
 Lys Trp Val Ala Ser Ala Ile Ala Ile Ile Trp Gly Phe Ala Phe Ala
 325 330 335
 Leu Val Pro Val Gly Trp Ser Thr Trp Ile Thr Arg Ser Leu Ala Asp
 340 345 350
 Gln Ala Glu Lys Ala Gly Ser Ile Gln Val Ala Val Ile Gln Leu Ala
 355 360 365
 Asn Thr Cys Gly Ala Ala Val Gly Gly Val Ala Leu Asp His Leu Gly
 370 375 380
 Leu Thr Ser Pro Leu Val Ile Ser Gly Thr Leu Met Leu Leu Thr Ala
 385 390 395 400
 Leu Leu Val Ala Gly Lys Val Lys Ala Lys
 405 410

<210> 9468

<211> 375

<212> PRT

<213> *Enterobacter cloacae*

<400> 9468

Arg Cys Arg Ile Thr Val Gly Cys Leu Cys Cys Tyr Ala Asn Glu Thr
 1 5 10 15
 Val Met Ser Leu Thr Arg Leu Leu Ile Arg Asp Phe Arg Asn Ile Glu
 20 25 30
 Ser Ala Asp Leu Ala Leu Ser Pro Gly Phe Asn Phe Leu Val Gly Ala
 35 40 45
 Asn Gly Ser Gly Lys Thr Ser Val Leu Glu Ala Ile Tyr Thr Leu Gly
 50 55 60
 His Gly Arg Ala Phe Arg Ser Leu Gln Ile Gly Arg Val Ile Arg His
 65 70 75 80
 Glu Gln Asp Ser Phe Val Leu His Gly Arg Leu Gln Gly Glu Glu Arg
 85 90 95
 Glu Thr Ala Ile Gly Leu Thr Lys Asp Lys Gln Gly Asp Ser Lys Val
 100 105 110
 Arg Ile Asp Gly Thr Asp Gly His Lys Val Ala Glu Leu Ala Leu Leu
 115 120 125
 Met Pro Met Gln Leu Ile Trp Pro Glu Gly Phe Thr Leu Leu Asn Gly
 130 135 140
 Gly Pro Lys Tyr Arg Arg Ala Phe Leu Asp Trp Gly Cys Phe His Asn
 145 150 155 160
 Glu Ala Gly Phe Phe Asn Ala Trp Ser Asn Leu Lys Arg Leu Leu Lys
 165 170 175
 Gln Arg Asn Ala Ala Leu Arg Gln Val Thr Arg Tyr Ala Gln Leu Arg
 180 185 190
 Pro Trp Asp Met Glu Leu Ile Pro Leu Ala Glu Gln Ile Ser Arg Trp
 195 200 205
 Arg Ala Glu Tyr Ser Ala Gly Ile Ala Glu Asp Met Ala Asp Thr Cys
 210 215 220

Lys Gln Phe Leu Pro Glu Phe Ser Leu Thr Phe Ser Phe Gln Arg Gly
 225 230 235 240
 Trp Glu Lys Glu Thr Asp Tyr Ala Glu Val Leu Glu Arg Ser Phe Glu
 245 250 255
 Arg Asp Arg Met Leu Thr Tyr Thr Ala His Gly Pro His Lys Ala Asp
 260 265 270
 Phe Arg Ile Arg Ala Asp Gly Ala Pro Val Glu Asp Thr Leu Ser Arg
 275 280 285
 Gly Gln Leu Lys Leu Leu Met Cys Ala Leu Arg Leu Ala Gln Gly Glu
 290 295 300
 Phe Leu Thr Arg Glu Ser Gly Arg Arg Cys Leu Tyr Leu Ile Asp Asp
 305 310 315 320
 Phe Ala Ser Glu Leu Asp Asp Ala Arg Arg Gly Leu Leu Ala Ser Arg
 325 330 335
 Leu Lys Ala Thr Gln Ser Gln Val Phe Val Ser Ala Ile Ser Ala Glu
 340 345 350
 His Val Met Asp Met Ser Asp Glu Asn Ser Lys Met Phe Thr Val Glu
 355 360 365
 Lys Gly Lys Ile Thr Asp
 370 375

<210> 9469

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 9469

Gln Glu Lys Lys Met Thr Ala Thr Met Gln Arg Trp Ser Met Asp Ala
 1 5 10 15
 Leu Gly Arg Glu Ser Leu Arg Leu Val Gln Glu Pro Val Pro Gln Pro
 20 25 30
 Gly Ser Gly Glu Val Arg Val Arg Val Asn Ala Val Ala Leu Asn Tyr
 35 40 45
 Arg Asp Lys Met Val Ile Glu Gly Thr Met Pro Ile Pro Leu Ser Phe
 50 55 60
 Pro Phe Thr Pro Ala Ser Asp Met Ala Gly Val Val Asp Ser Ile Gly
 65 70 75 80
 Glu Gly Val Thr Arg Phe Lys Pro Gly Ala Arg Val Ile Ser Thr Phe
 85 90 95
 Phe Pro Glu Trp Ile Asp Gly Lys Pro Gln Ala Asp Ala Arg Asp Leu
 100 105 110
 Pro Tyr Lys Thr Ser Gly Gly Tyr Phe Gln Gly Met Leu Ala Glu Tyr
 115 120 125
 Val Ile Val Ser Glu Asn Ala Leu Val Ala Ser Pro Glu Ser Leu Asp
 130 135 140
 Asp Ala Glu Ala Ser Thr Leu Pro Cys Ala Gly Leu Thr Ala Trp Phe
 145 150 155 160
 Ala Leu Val Glu Arg Gly His Leu Arg Ala Gly Gln Ser Val Leu Val
 165 170 175
 Gln Gly Thr Gly Gly Val Ala Leu Phe Ala Leu Gln Ile Ala Lys Ala
 180 185 190
 His Gly Ala Glu Val Phe Val Ser Ser Gly Ser Asp Glu Lys Leu Ala
 195 200 205
 Arg Ala Lys Lys Leu Gly Ala Ser Gln Gly Ile Asn Arg Leu Lys Gly
 210 215 220
 Asp Trp Ala Glu Asn Thr Leu Ala Leu Thr Gln Asp Arg Gly Ile Asp
 225 230 235 240
 His Ile Ile Glu Thr Val Gly Gly Glu Asn Leu Arg His Ser Leu Arg
 245 250 255
 Ala Val Ala Val His Gly Arg Ile Ser Val Ile Gly Val Leu Ala Gly
 260 265 270

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Thr Glu Ile Ser Leu Pro Ala Ser Glu Leu Leu Leu Lys Ser Pro Val
      275      280
Ile Gln Gly Ile Gly Val Gly His Arg Arg Ala Leu Glu Asp Phe Val
      290      295      300
Arg Ala Val Asp Val Thr Glu Leu Lys Pro Val Ile Glu His Arg Tyr
      305      310      315      320
Arg Phe Asp Glu Leu Glu Gln Ala Leu Glu His Leu Asp Arg Gly Ala
      325      330      335
Phe Gly Lys Ile Val Leu Thr Arg Glu
      340      345

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<210> 9470

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 9470

```

Trp Thr Tyr Arg Ala Gln Gly Leu Ser Met Thr Leu Asn Lys Thr Asp
1      5      10      15
Arg Ile Val Ile Thr Leu Gly Thr Gln Ile Val Gly Gly Lys Tyr Val
      20      25      30
Pro Gly Ser Pro Leu Pro Ala Glu Ala Glu Leu Cys Glu Glu Phe Glu
      35      40      45
Thr Ser Arg Asn Ile Ile Arg Glu Val Phe Arg Ser Leu Met Ala Lys
      50      55      60
Arg Leu Ile Glu Met Lys Arg Tyr Arg Gly Ala Phe Val Ala Pro Arg
65      70      75      80
Asn Gln Trp Asn Tyr Leu Asp Thr Asp Val Leu Gln Trp Val Leu Glu
      85      90      95
Asn Asp Tyr Asp Pro Arg Leu Ile Gly Ala Met Ser Glu Val Arg Asn
      100      105      110
Leu Val Glu Pro Ala Ile Ala Arg Trp Ala Ala Glu Arg Ala Thr Ser
      115      120      125
Gly Asp Leu Ala Gln Ile Glu Ser Ala Leu Asn Asp Met Ile Ala Asn
      130      135      140
Asn Gln Asn Arg Glu Ala Phe Asn Glu Ala Asp Ile Arg Tyr His Glu
145      150      155      160
Ala Val Leu Gln Ser Val His Asn Pro Val Leu Gln Gln Leu Ser Val
      165      170      175
Ala Ile Ser Ser Leu Gln Arg Ala Val Phe Glu Arg Thr Trp Met Gly
      180      185      190
Asp Glu Ala Asn Met Pro Lys Thr Leu Gln Glu His Lys Ala Leu Phe
195      200      205
Asp Ala Ile Arg His Gln Asp Gly Asp Ala Ala Glu Gln Ala Ala Leu
210      215      220
Thr Met Ile Ala Ser Ser Thr Arg Arg Leu Lys Glu Ile Thr
225      230      235

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<210> 9471

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 9471

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Gly Ala Ser Leu Met Gln Trp Gln Thr Glu Leu Pro Leu Ile Ala Ile
1      5      10      15
Leu Arg Gly Ile Thr Pro Gly Glu Ala Leu Ala His Val Gly Ala Val
      20      25      30
Ile Asp Ala Gly Phe Asp Ala Val Glu Ile Pro Leu Asn Ser Pro Glu
      35      40      45
Trp Glu Lys Ser Ile Pro Ala Ile Val Lys Ala Phe Gly Asp Lys Ala

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50 55 60
 Leu Ile Gly Ala Gly Thr Val Leu Gln Pro Glu Gln Val Asp Glu Leu
 65 70 75 80
 Ala Lys Met Gly Cys Lys Leu Ile Val Thr Pro Asn Met Asn Pro Glu
 85 90 95
 Val Ile Arg Arg Ala Val Glu Tyr Gly Met Thr Val Cys Pro Gly Cys
 100 105 110
 Ala Thr Ala Thr Glu Ala Phe Ala Ala Leu Asp Ala Gly Ala Gln Ser
 115 120 125
 Leu Lys Ile Phe Pro Ser Ser Ala Phe Gly Pro Asp Tyr Ile Lys Ala
 130 135 140
 Leu Lys Ala Val Leu Pro Ala Ser Val Pro Val Phe Ala Val Gly Gly
 145 150 155 160
 Val Thr Pro Glu Asn Leu Val Gln Trp Ile Lys Ala Gly Cys Val Gly
 165 170 175
 Ala Gly Leu Gly Ser Asp Leu Tyr Arg Ala Gly Gln Pro Val Glu Arg
 180 185 190
 Thr Ala Gln Gln Ala Ala Ala Phe Val Lys Ala Tyr Arg Glu Ala Val
 195 200 205
 Gln
 210

<210> 9472
 <211> 126
 <212> PRT
 <213> Enterobacter cloacae

<400> 9472
 Ser Leu His Ala Ala Arg Gln Gly Thr Phe Met Asn Ile Ser Arg Leu
 1 5 10 15
 Gly Glu Ala Pro Asp Tyr Arg Phe Ser Leu Ala Asn Glu Arg Thr Phe
 20 25 30
 Leu Ala Trp Ile Arg Thr Ala Leu Gly Phe Leu Ala Ala Gly Val Gly
 35 40 45
 Leu Asp Gln Leu Ala Pro Asp Phe Ala Thr Pro Leu Ile Arg Glu Val
 50 55 60
 Leu Ala Leu Leu Cys Leu Ile Ala Gly Val Leu Ala Ile Tyr Gly
 65 70 75 80
 Tyr Leu Arg Trp Leu Arg Asn Glu Lys Ala Met Arg Leu Lys Gln Asp
 85 90 95
 Leu Pro Tyr Thr Arg Gly Leu Leu Ile Ile Ser Thr Ile Leu Leu Met
 100 105 110
 Val Ala Gly Val Val Met Leu Leu Val Leu Tyr Ala Gly
 115 120 125

<210> 9473
 <211> 153
 <212> PRT
 <213> Enterobacter cloacae

<400> 9473
 Thr Ile Thr Val Pro Thr Ser Ala Pro Asn Leu Leu Val Thr Asn Ser
 1 5 10 15
 Ala Ala Gly Cys Gly Gly Thr Thr Gln Cys Thr Ala Ile Ser Ala Val
 20 25 30
 Gln Ser Gly Met Ala Ser Leu Ser Ser Asp Val Leu Val Phe Leu Ala
 35 40 45
 Met Glu Asn Ala Ser Gly Ile Ser Ser Thr Thr Pro Thr Ser Thr Asn
 50 55 60
 Ser Val Met Pro Gln Ile Arg Pro Thr Arg Thr Ile Ile Thr Ser Ala
 65 70 75 80

Asp Ser Gln Arg Gln Arg Cys Asn Val Ile Pro Met Arg Ser Ala Ala
 85 90 95
 Pro Glu Thr Ser Ile Ile Leu Pro Arg Ile Val Pro Arg Pro Ile Thr
 100 105 110
 Ala Ala Arg Lys Pro Ser Val Pro Pro Ile Pro Leu Ser Met Ala Leu
 115 120 125
 Thr Ile Ser Ser Gly Leu Ile Pro Ile Ile Ala Pro Thr Lys Lys Leu
 130 135 140
 Ala Ser Ser Ser Ala Arg Asn Gly
 145 150

<210> 9474
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 9474
 Gly Glu Glu Met Met Ile Val Ala Asp Ala Met Lys Ala Thr His Ala
 1 5 10 15
 Leu Val Ala Ala Val Pro Leu Leu Gly Glu Gln Pro Ser Glu Lys Asp
 20 25 30
 Tyr Lys Asp Ala Leu Glu Leu Val Glu Tyr Leu Leu Met Asn Glu Pro
 35 40 45
 Asn Ser Pro Leu Leu Asp Ile Val Cys Ala Arg Ile Ser Arg Tyr Glu
 50 55 60
 Ala Asn Arg Pro Glu Ile Val Ala Leu Arg Lys Glu Met Glu Ser Val
 65 70 75 80
 Pro Val Gly Ile Ala Val Leu Arg Thr Leu Met Asp Gln Tyr Asn Leu
 85 90 95
 Thr Ile Ser Asp Phe Lys Asp Glu Ile Gly Ser Lys Ser Met Val Ser
 100 105 110
 Arg Val Leu Asn Gly Gln Arg Gln Leu Thr Leu Asn His Ile Lys Lys
 115 120 125
 Leu Ala Ala Arg Phe Gly Val Ser Pro Ala Leu Phe Ile Glu
 130 135 140

<210> 9475
 <211> 577
 <212> PRT
 <213> Enterobacter cloacae

<400> 9475
 Thr Thr Thr Arg Lys Ala Gly Ser Glu Glu Lys Asp Trp Ser Met Ala
 1 5 10 15
 Ser Ser Gly Thr Thr Ser Thr Lys Thr Arg Phe Thr Gly Ala Gln Leu
 20 25 30
 Ile Val His Leu Leu Glu Arg Gln Gly Ile Thr Thr Val Ala Gly Ile
 35 40 45
 Pro Gly Gly Thr Val Leu Pro Leu Tyr Asp Ala Leu Ser Gln Ser Thr
 50 55 60
 Gln Ile Arg His Val Leu Ala Arg His Glu Gln Gly Ala Gly Phe Ile
 65 70 75 80
 Ala Gln Gly Met Ala Arg Thr Gln Gly Lys Pro Ala Val Cys Met Ala
 85 90 95
 Cys Ser Gly Pro Gly Ala Thr Asn Leu Val Thr Ala Ile Ala Asp Ala
 100 105 110
 Arg Leu Asp Ser Ile Pro Leu Ile Cys Ile Thr Gly Gln Val Pro Ser
 115 120 125
 Ser Met Ile Gly Thr Asp Ala Phe Gln Glu Val Asp Thr Tyr Gly Ile
 130 135 140
 Ser Ile Pro Ile Thr Lys His Asn Tyr Leu Val Arg Asp Ile Ser Glu


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145          150          155          160
Leu Pro Gln Val Ile Ser Asp Ala Phe Arg Ile Ala Gln Ser Gly Arg
      165      170      175
Pro Gly Pro Val Trp Ile Asp Ile Pro Lys Asp Val Gln Thr Ala Glu
      180      185      190
Ile Glu Ile Asp Ile Leu Pro Glu Pro Gly Glu Arg Ala Pro Ala Pro
      195      200      205
Glu Phe Ser Ala Glu Ser Val Arg Asp Ala Ala Ala Met Ile Asn Ala
      210      215      220
Ala Lys Arg Pro Val Leu Tyr Leu Gly Gly Gly Ala Ile Asn Ala Ala
      225      230      235      240
Asp Glu Ile Arg Gln Phe Ala Glu Lys Ala Asn Leu Pro Thr Thr Met
      245      250      255
Thr Leu Met Ala Leu Gly Met Leu Pro Lys Ala His Pro Leu Ser Leu
      260      265      270
Gly Met Leu Gly Met His Gly Ala Arg Ser Thr Asn Tyr Ile Leu Gln
      275      280      285
Glu Ala Asp Leu Leu Ile Val Met Gly Ala Arg Phe Asp Asp Arg Ala
      290      295      300
Ile Gly Lys Thr Glu Gln Phe Cys Pro Asn Ala Lys Ile Ile His Val
      305      310      315      320
Asp Ile Asp Arg Ala Glu Leu Gly Lys Ile Lys Gln Pro His Val Ala
      325      330      335
Ile Gln Gly Asp Val Ala Glu Val Leu Ala Gln Leu Ile Pro Gln Thr
      340      345      350
Val Ala Thr Asp Arg Ala Asp Trp Arg Gln Leu Val Ala Asp Leu Gln
      355      360      365
Arg Glu Phe Pro Gly Ala Ile Pro Thr Glu Gly Asp Pro Leu Ser His
      370      375      380
Tyr Gly Leu Ile Asn Ala Val Ala Ala Cys Val Asp Asp Ser Ala Ile
      385      390      395      400
Ile Thr Thr Asp Val Gly Gln His Gln Met Trp Thr Ala Gln Ala Tyr
      405      410      415
Pro Leu Asn Arg Pro Arg Gln Trp Leu Thr Ser Gly Gly Leu Gly Thr
      420      425      430
Met Gly Phe Gly Leu Pro Ala Ala Val Gly Ala Ala Leu Ala Asn Pro
      435      440      445
Asp Arg Lys Val Ile Cys Phe Ser Gly Asp Gly Ser Leu Met Met Asn
      450      455      460
Ile Gln Glu Met Ala Thr Ala Ala Glu Asn Gln Leu Asp Val Lys Ile
      465      470      475      480
Ile Leu Met Asn Asn Glu Ala Leu Gly Leu Val His Gln Gln Gln Ser
      485      490      495
Leu Phe Tyr Lys Gln Gly Val Phe Ala Ala Thr Tyr Pro Gly Met Ile
      500      505      510
Asn Phe Met Gln Ile Ala Ala Gly Phe Gly Leu His Thr Cys Asp Leu
      515      520      525
Asn Ala Glu Glu Asp Ala His Ala Ala Leu Gln Asp Ala Ile Ser Arg
      530      535      540
Pro Gly Pro Ala Leu Ile His Val Arg Ile Asp Pro Glu Gln Lys Val
      545      550      555      560
Tyr Pro Met Val Pro Pro Gly Ala Ala Asn Thr Glu Met Val Gly Glu
      565      570      575

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<210> 9476

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9476

Ala Met Gln Lys Gln His Asp Asn Val Ile Leu Glu Leu Thr Val Arg
 1 5 10 15
 Asn His Pro Gly Val Met Thr His Val Cys Gly Leu Phe Ala Arg Arg
 20 25 30
 Ala Phe Asn Val Glu Gly Ile Leu Cys Leu Pro Ile Gln Gly Ser Glu
 35 40 45
 His Ser Arg Ile Trp Leu Leu Val Asn Asp Asp Gln Arg Leu Glu Gln
 50 55 60
 Met Ile Ala Gln Ile Asp Lys Leu Glu Asp Val Thr Lys Val Ala Arg
 65 70 75 80
 Asn Gln Ser Asp Pro Thr Met Phe Asn Lys Ile Ala Val Phe Phe Glu
 85 90 95

<210> 9477

<211> 505

<212> PRT

<213> *Enterobacter cloacae*

<400> 9477

Gln Leu Ala Met Asn Ser Leu Phe Ser Arg Leu Ile Ala Val Val Ala
 1 5 10 15
 Ser Phe Phe Ile Phe Ser Ala Ala Trp Phe Cys Leu Trp Ser Ile Ser
 20 25 30
 Leu His Leu Val Glu Arg Pro Glu Leu Ala Val Leu Leu Phe Pro Phe
 35 40 45
 Gly Leu Arg Leu Gly Leu Met Leu Gln Cys Pro Arg Gly Tyr Trp Pro
 50 55 60
 Val Leu Leu Gly Ala Glu Trp Leu Met Leu Ile Trp Leu Ala Gln Glu
 65 70 75 80
 Val Ala Leu Ala His Leu Pro Leu Leu Met Thr Gly Ser Leu Leu Thr
 85 90 95
 Leu Ile Pro Val Ala Leu Ile Ser Arg Tyr Arg His Gln Arg Asp Trp
 100 105 110
 Arg Thr Leu Leu Arg Gln Gly Ala Ala Leu Ile Ala Ala Leu Leu
 115 120 125
 Gln Ser Leu Pro Trp Val Gly Glu Lys Glu Val Leu Asn Ala Leu Leu
 130 135 140
 Leu Thr Leu Thr Gly Gly Leu Thr Leu Ala Pro Thr Cys Leu Val Ile
 145 150 155 160
 Trp His Tyr Leu Thr Ser Thr Val Trp Gln Pro Leu Gly Pro Ala Leu
 165 170 175
 Val Ser Gln Pro Val Asn Trp Arg Ala Arg His Leu Ile Trp Tyr Leu
 180 185 190
 Leu Leu Phe Val Val Ser Leu Trp Leu Gln Leu Gly Leu Pro Ala Glu
 195 200 205
 Leu Ser Arg Phe Thr Pro Phe Cys Leu Ala Leu Pro Ile Ile Ala Leu
 210 215 220
 Ala Trp His Tyr Gly Trp Gln Gly Ala Leu Ile Ala Thr Leu Met Asn
 225 230 235 240
 Ala Ile Ala Leu Ile Ala Ser Gln Thr Trp His Asp His Pro Val Asp
 245 250 255
 Leu Leu Leu Ser Leu Leu Ala Gln Ser Leu Thr Gly Leu Leu Leu Gly
 260 265 270
 Ala Gly Ile Gln Arg Leu Arg Glu Leu Asn Gln Ser Leu Gln Asn Glu
 275 280 285
 Leu Ala Arg Asn Arg Arg Leu Ala Glu Arg Leu Leu Glu Thr Glu Glu
 290 295 300
 Ser Val Arg Gln Glu Val Ala Arg Glu Leu His Asp Asp Ile Gly Gln

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305          310          315          320
Thr Ile Thr Ala Ile Arg Thr Gln Ala Gly Ile Val Gln Arg Leu Ala
          325          330          335
Ala Glu Asn Ala Gly Val Lys Gln Gly Gly Ala His Ile Glu Gln Leu
          340          345          350
Ser Leu Gly Val Tyr Asp Ser Val Arg Arg Leu Leu Gly Arg Leu Arg
          355          360          365
Pro Arg Gln Leu Asp Asp Leu Ser Leu Glu Gln Ala Val Arg Ser Leu
          370          375          380
Met Arg Glu Met Glu Leu Glu Ser Arg Gly Ile Val Ser His Leu Asp
          385          390          395          400
Trp Arg Ile Ser Glu Pro Ala Leu Ser Glu Gly Gln Arg Val Thr Leu
          405          410          415
Phe Arg Val Cys Gln Glu Gly Leu Asn Asn Ile Val Lys His Ala Ser
          420          425          430
Ala Ser Ala Val Thr Ile Gln Gly Trp Gln Gln Asp Glu Arg Leu Met
          435          440          445
Leu Val Ile Glu Asp Asp Gly Cys Gly Leu Pro Pro Gly Ser Gly Gln
          450          455          460
Gln Gly Phe Gly Leu Ala Gly Met Arg Glu Arg Val Lys Ala Leu Gly
          465          470          475          480
Gly Thr Leu Ser Leu Ser Cys Thr His Gly Thr Arg Val Ser Val Ser
          485          490          495
Leu Pro Leu Arg Thr His His Val
          500          505

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<210> 9478

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 9478

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Arg Arg Ala Cys Met Leu Thr Arg Arg Leu Ser Cys Leu Ala Leu Leu
1          5          10          15
Met Ala Leu Ala Ser Pro Ala Met Ala Ala Asn Ala Pro Thr Tyr Gly
          20          25          30
Glu Lys Leu Glu Gly Phe Asp Tyr Gly Trp Pro Val Lys His Phe Thr
          35          40          45
Phe Thr Ser Gln Asn Gln Pro Leu Asp Met Ala Tyr Leu Asp Val Lys
          50          55          60
Pro Glu Lys Pro Asn Gly Arg Thr Val Val Leu Met His Gly Lys Asn
          65          70          75          80
Phe Cys Ala Gly Thr Trp Asp Gly Thr Ile Arg Ala Leu Ser Ala Ser
          85          90          95
Gly Tyr Arg Val Ile Ala Pro Asp Gln Ile Gly Phe Cys Lys Ser Thr
          100          105          110
Lys Pro Glu His Tyr Gln Tyr Thr Phe Gln Gln Leu Ala Asp Asn Thr
          115          120          125
His Ala Leu Leu Lys Thr Leu Gly Val Asp Arg Val Thr Val Ile Gly
          130          135          140
His Ser Thr Gly Gly Met Leu Ala Thr Arg Tyr Ala Leu Met Trp Pro
          145          150          155          160
Gln Gln Val Glu Gln Leu Val Met Val Asn Pro Ile Gly Leu Glu Asp
          165          170          175
Trp Lys Ala Arg Gly Val Pro His Ile Thr Val Asp Gln Trp Tyr Gln
          180          185          190
Arg Glu Leu Lys Val Ser Ala Asp Gly Ile Arg Gln Tyr Glu Lys Asn
          195          200          205
Thr Tyr Tyr Ala Gly Glu Trp Lys Pro Glu Tyr Glu Arg Trp Val Thr
          210          215          220
Met Leu Ala Gly Leu Asn Asn Gly Pro Gly Lys Glu Arg Val Ala Trp

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225				230				235			240
Asn	Ser	Ala	Leu	Leu Tyr Asp Met Ile Tyr Thr Gln Pro Val Ile Tyr							
Glu Phe Ser Glu Leu Ser Met Pro Val Leu Leu Met Ile Gly Thr Lys			245				250			255	
Asp Asn Thr Ala Ile Gly Lys Asp Leu Ala Pro Pro Glu Ile Arg Lys			260			265				270	
Thr Leu Gly Asn Tyr Ala Val Leu Gly Lys Glu Thr Ala Lys Arg Ile			275			280				285	
Pro His Ala Thr Leu Val Glu Phe Asn Asp Met Gly His Ala Pro Gln			290			295				300	
Met Gln Asp Pro Glu Arg Phe His Glu Ala Leu Leu Lys Gly Leu Gln			305			310				315	
Ala Arg			325					330			335

<210> 9479

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 9479

1	Thr	Met	Lys	Gln	Ser	Ala	Ile	Ile	Trp	Pro	Asn	Asp	Tyr	Leu	Pro	Gly
1	Thr	Thr	Asp	Asn	Phe	Ala	Ser	Asn	Glu	Ile	Ile	Val	Ala	Gly	Leu	Ser
				20					25					30		
Ala	Lys	Glu	Ile	Trp	Ala	Gln	Leu	Asn	Asp	Thr	Thr	Leu	Trp	Pro	Asn	
				35				40					45			
Tyr	Tyr	Ser	Asn	Ala	Glu	Asp	Ile	Arg	Phe	His	Asp	Gly	Ser	Gly	Pro	
				50		55						60				
Glu	Leu	Ser	Ala	Asn	Ala	Arg	Phe	Arg	Phe	Thr	Thr	Phe	Gly	Phe	Pro	
65				70						75				80		
Val	Glu	Ala	Gln	Val	Thr	Glu	Tyr	Val	Pro	Pro	Val	Asp	Gly	Glu	Ala	
				85					90					95		
Ala	Arg	Ile	Ala	Trp	His	Gly	Trp	Val	Glu	Gly	Asp	Ala	Ser	Ser	Arg	
				100				105						110		
Leu	Asp	Val	Ile	His	Ala	Trp	Leu	Phe	Glu	Asp	Leu	Pro	Gly	Asn	Arg	
				115			120					125				
Val	Arg	Ile	Leu	Thr	Gln	Glu	Ser	Gln	Lys	Gly	Val	Pro	Ala	Gln	Glu	
				130		135					140					
Leu	Ala	Arg	Thr	Val	Pro	Asn	Pro	Met	Ile	Asn	Gly	His	Gln	Glu	Trp	
145				150						155				160		
Ile	Val	Gly	Leu	Ala	Asn	Ala	Ala	Met	Gln	Glu	Lys	Leu	Ser	Lys	Arg	
				165					170					175		

<210> 9480

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 9480

Pro	Pro	Arg	Thr	5	yr	Glu	Trp	Leu	Ala	Gly	Ala	Val	Gly	Asn	Lys	Pro
1										10					15	
Leu	Gln	Gln	Val	Ser	Gly	Pro	Leu	Gly	Gly	Arg	Pro	Thr	Leu	Pro	Ile	
			20					25					30			
Leu	Gly	Asn	Leu	Leu	Leu	Gln	Val	Ala	Asp	Gly	Thr	Leu	Ser	Leu	Thr	
		35					40					45				
Gly	Thr	Asp	Leu	Glu	Met	Glu	Met	Ile	Ala	Arg	Val	Thr	Leu	Thr	Gln	
	50					55					60					

Pro His Asp Ala Gly Ala Thr Thr Val Pro Ala Arg Lys Phe Phe Asp
 65 70 75 80
 Ile Cys Arg Gly Leu Pro Glu Gly Ala Glu Ile Ala Val Gln Leu Glu
 85 90 95
 Gly Asp Arg Met Leu Val Arg Ser Gly Arg Ser Arg Phe Ser Leu Ser
 100 105 110
 Thr Leu Pro Ala Ala Asp Phe Pro Asn Leu Asp Asp Trp Gln Ser Glu
 115 120 125
 Val Glu Phe Thr Leu Pro Gln Ala Thr Met Lys Arg Leu Ile Glu Ala
 130 135 140
 Thr Gln Phe Ser Met Ala His Gln Asp Val Arg Tyr Tyr Leu Asn Gly
 145 150 155 160
 Met Leu Phe Glu Thr Glu Gly Glu Glu Leu Arg Thr Val Ala Thr Asp
 165 170 175
 Gly His Arg Leu Ala Val Cys Ser Met Pro Ile Gly Asp Ser Leu Pro
 180 185 190
 Asn His Ser Val Ile Val Pro Arg Lys Gly Val Ile Glu Leu Met Arg
 195 200 205
 Met Leu Asp Gly Gly Asp Thr Pro Leu Arg Val Gln Ile Gly Ser Asn
 210 215 220
 Asn Ile Arg Ala His Val Gly Asp Phe Val Phe Thr Ser Lys Leu Val
 225 230 235 240
 Asp Gly Arg Phe Pro Asp Tyr Arg Arg Val Leu Pro Lys Asn Pro Asp
 245 250 255
 Lys Thr Leu Glu Ala Gly Cys Asp Ile Leu Lys Gln Ala Phe Ala Arg
 260 265 270
 Ala Ala Ile Leu Ser Asn Glu Lys Phe Arg Gly Val Arg Leu Tyr Val
 275 280 285
 Ser Glu Asn Gln Ile Lys Ile Thr Ala Asn Asn Pro Glu Gln Glu Glu
 290 295 300
 Ala Glu Glu Ile Leu Asp Val Thr Tyr Ala Gly Ala Glu Met Glu Ile
 305 310 315 320
 Gly Phe Asn Val Ser Tyr Val Leu Asp Val Leu Asn Ala Leu Lys Cys
 325 330 335
 Glu Asn Val Arg Ile Leu Leu Thr Asp Ser Val Ser Ser Val Gln Ile
 340 345 350
 Glu Asp Ala Ala Ser Gln Ser Ala Ala Tyr Val Val Met Pro Met Arg
 355 360 365
 Leu
 370

<210> 9481

<211> 810

<212> PRT

<213> Enterobacter cloacae

<400> 9481

Asn Glu Arg Glu Thr Leu Met Ser Asn Ser Tyr Asp Ser Ser Ser Ile
 1 5 10 15
 Lys Val Leu Lys Gly Leu Asp Ala Val Arg Lys Arg Pro Gly Met Tyr
 20 25 30
 Ile Gly Asp Thr Asp Asp Gly Thr Gly Leu His His Met Val Phe Glu
 35 40 45
 Val Val Asp Asn Ala Ile Asp Glu Ala Leu Ala Gly His Cys Lys Asp
 50 55 60
 Ile Val Val Thr Ile His Ala Asp Asn Ser Val Ser Val Thr Asp Asp
 65 70 75 80
 Gly Arg Gly Ile Pro Thr Gly Ile His Pro Glu Glu Gly Val Ser Ala
 85 90 95
 Ala Glu Val Ile Met Thr Val Leu His Ala Gly Gly Lys Phe Asp Asp
 100 105 110

Asn Ser Tyr Lys Val Ser Gly Gly Leu His Gly Val Gly Val Ser Val
 115 120 125
 Val Asn Ala Leu Ser Gln Lys Leu Glu Leu Val Ile Gln Arg Glu Gly
 130 135 140
 Lys Ile His Arg Gln Ile Tyr Gln His Gly Val Pro Glu Ala Pro Leu
 145 150 155 160
 Ala Val Thr Gly Asp Thr Glu Lys Thr Gly Thr Met Val Arg Phe Trp
 165 170 175
 Pro Ser Leu Glu Thr Phe Thr Asn Val Thr Glu Phe Glu Tyr Asp Ile
 180 185 190
 Leu Ala Lys Arg Leu Arg Glu Leu Ser Phe Leu Asn Ser Gly Val Ser
 195 200 205
 Ile Arg Leu Arg Asp Lys Arg Asp Asn Lys Glu Asp His Phe His Tyr
 210 215 220
 Glu Gly Gly Ile Lys Ala Phe Val Glu Tyr Leu Asn Lys Asn Lys Thr
 225 230 235 240
 Pro Ile His Pro Asn Ile Phe Tyr Phe Ser Thr Glu Lys Asp Gly Ile
 245 250 255
 Gly Val Glu Val Ala Leu Gln Trp Asn Asp Gly Phe Gln Glu Asn Ile
 260 265 270
 Tyr Cys Phe Thr Asn Asn Ile Pro Gln Arg Asp Gly Gly Thr His Leu
 275 280 285
 Ala Gly Phe Arg Ala Ala Met Thr Arg Thr Leu Asn Ala Tyr Met Asp
 290 295 300
 Lys Glu Gly Tyr Ser Lys Lys Ala Lys Val Ser Ala Thr Gly Asp Asp
 305 310 315 320
 Ala Arg Glu Gly Leu Ile Ala Val Val Ser Val Lys Val Pro Asp Pro
 325 330 335
 Lys Phe Ser Ser Gln Thr Lys Asp Lys Leu Val Ser Ser Glu Val Lys
 340 345 350
 Ser Ala Val Glu Gln Gln Met Asn Glu Leu Leu Ser Glu Tyr Leu Leu
 355 360 365
 Glu Asn Pro Ser Asp Ala Lys Ile Val Val Gly Lys Ile Ile Asp Ala
 370 375 380
 Ala Arg Ala Arg Glu Ala Ala Arg Lys Ala Arg Glu Met Thr Arg Arg
 385 390 395 400
 Lys Gly Ala Leu Asp Leu Ala Gly Leu Pro Gly Lys Leu Ala Asp Cys
 405 410 415
 Gln Glu Arg Asp Pro Ala Leu Ser Glu Leu Tyr Leu Val Glu Gly Asp
 420 425 430
 Ser Ala Gly Gly Ser Ala Lys Gln Gly Arg Asn Arg Lys Asn Gln Ala
 435 440 445
 Ile Leu Pro Leu Lys Gly Lys Ile Leu Asn Val Glu Lys Ala Arg Phe
 450 455 460
 Asp Lys Met Leu Ser Ser Gln Glu Val Ala Thr Leu Ile Thr Ala Leu
 465 470 475 480
 Gly Cys Gly Ile Gly Arg Asp Glu Tyr Asn Pro Asp Lys Leu Arg Tyr
 485 490 495
 His Ser Ile Ile Met Thr Asp Ala Asp Val Asp Gly Ser His Ile
 500 505 510
 Arg Thr Leu Leu Thr Phe Phe Tyr Arg Gln Met Pro Glu Ile Val
 515 520 525
 Glu Arg Gly His Val Tyr Ile Ala Gln Pro Pro Leu Tyr Lys Val Lys
 530 535 540
 Lys Gly Lys Gln Glu Gln Tyr Ile Lys Asp Asp Asp Ala Met Asp Gln
 545 550 555 560
 Tyr Gln Ile Ala Ile Ala Leu Asp Gly Ala Thr Leu His Ala Asn Ser
 565 570 575
 Ser Ala Pro Ala Leu Ala Gly Glu Pro Leu Glu Arg Leu Val Ser Glu
 580 585 590
 Phe Asn Ala Thr Gln Lys Met Ile Gly Arg Met Glu Arg Arg Tyr Pro

595 600 605
 Lys Ala Leu Leu Lys Glu Leu Ile Tyr Gln Pro Thr Leu Thr Glu Ala
 610 615 620
 Asp Leu Ser Asn Glu Gln Thr Val Thr Arg Trp Val Asn Thr Leu Val
 625 630 635 640
 Ser Glu Leu Asn Glu Lys Glu Gln His Gly Ser Gln Trp Lys Phe Asp
 645 650 655
 Val Gln Gln Asn Ala Glu Gln Gln Phe Glu Pro Ile Val Arg Val Arg
 660 665 670
 Thr His Gly Val Asp Thr Asp Tyr Pro Leu Glu His Glu Phe Val Thr
 675 680 685
 Gly Pro Glu Tyr Arg Arg Ile Cys Thr Leu Gly Glu Lys Leu Arg Gly
 690 695 700
 Leu Ile Glu Asp Asp Ala Phe Ile Glu Arg Gly Glu Arg Arg Gln Pro
 705 710 715 720
 Val Ala Ser Phe Glu Gln Ala Leu Glu Trp Leu Val Lys Glu Ser Arg
 725 730 735
 Arg Gly Leu Ser Ile Gln Arg Tyr Lys Gly Leu Gly Glu Met Asn Pro
 740 745 750
 Asp Gln Leu Trp Glu Thr Thr Met Asp Pro Glu Ser Arg Arg Met Leu
 755 760 765
 Arg Val Thr Val Lys Asp Ala Ile Ala Ala Asp Gln Leu Phe Thr Thr
 770 775 780
 Leu Met Gly Asp Ala Val Glu Pro Arg Arg Ala Phe Ile Glu Glu Asn
 785 790 795 800
 Ala Leu Lys Ala Ala Asn Ile Asp Ile 805 810

<210> 9482

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9482

Phe Gln Glu His Leu Ser Met Arg Asn Phe Asp Leu Ser Pro Leu Tyr
 1 5 10 15
 Arg Ser Ala Ile Gly Phe Asp Arg Leu Phe Asn His Leu Glu Asn Asn
 20 25 30
 Gln Ser Gln Ser Asn Gly Tyr Pro Pro Tyr Asn Val Glu Leu Val Asp
 35 40 45
 Glu Asn His Tyr Arg Ile Ala Ile Ala Val Ala Gly Phe Ala Glu Ser
 50 55 60
 Glu Leu Glu Ile Thr Ala Gln Asp Asn Leu Leu Val Val Lys Gly Ser
 65 70 75 80
 His Ala Gly Glu Gln Lys Glu Arg Thr Tyr Leu Tyr Gln Gly Ile Ala
 85 90 95
 Glu Arg Asn Phe Glu Arg Lys Phe Gln Leu Ala Glu Asn Ile His Val
 100 105 110
 Lys Gly Ala Asn Leu Val Asn Gly Leu Leu Phe Ile Glu Leu Glu Arg
 115 120 125
 Val Ile Pro Glu Glu Lys Lys Pro Arg Arg Ile Glu Ile Asn
 130 135 140

<210> 9483

<211> 493

<212> PRT

<213> Enterobacter cloacae

<400> 9483

Arg Ile Gln Ser Pro Gly Arg Thr Arg Cys Gly Ala Ala Arg Gln Arg
 1 5 10 15

His Thr Gly Asp Cys Arg Ser Ala Arg Ser Ser Gly Ala Arg Pro Ala
 20 25 30
 Gly Ile Ala Asp Glu Asn Pro Phe Asn Lys Arg Thr Asn His Ser Asp
 35 40 45
 Arg Gly Tyr Ile Met Lys Lys Phe Ser Val Val Ile Ala Gly Gly Gly
 50 55 60
 Ser Thr Phe Thr Pro Gly Ile Val Leu Met Leu Leu Ala Asn Arg Asp
 65 70 75 80
 Arg Phe Pro Leu Arg Ala Leu Lys Phe Tyr Asp Asn Asp Gly Ala Arg
 85 90 95
 Gln Glu Ile Ile Ala Glu Ala Cys Lys Ile Ile Leu Lys Glu Gln Ala
 100 105 110
 Pro Glu Ile Glu Phe Ser Tyr Thr Thr Asp Pro Glu Ala Ala Phe Thr
 115 120 125
 Asp Val Asp Phe Val Met Ala His Ile Arg Val Gly Lys Tyr Pro Met
 130 135 140
 Arg Glu Lys Asp Glu Lys Ile Pro Leu Arg His Gly Val Leu Gly Gln
 145 150 155 160
 Glu Thr Cys Gly Pro Gly Gly Ile Ser Tyr Gly Met Arg Ser Ile Gly
 165 170 175
 Gly Val Leu Glu Leu Val Asp Tyr Met Glu Gln Tyr Ser Pro Asn Ala
 180 185 190
 Trp Met Leu Asn Tyr Ser Asn Pro Ala Ala Ile Val Ala Glu Ala Thr
 195 200 205
 Arg Arg Leu Arg Pro Asn Ala Lys Ile Leu Asn Ile Cys Asp Met Pro
 210 215 220
 Ile Gly Ile Glu Gly Arg Met Ala Gln Ile Val Gly Leu Lys Asp Arg
 225 230 235 240
 Lys Glu Met Arg Val Arg Tyr Tyr Gly Leu Asn His Phe Gly Trp Trp
 245 250 255
 Thr Ser Ile Glu Asp Gln Asn Gly Asn Asp Leu Met Pro Lys Leu Arg
 260 265 270
 Glu Tyr Val Ala Lys Asn Gly Tyr Val Pro Pro Ser Glu Asp Val His
 275 280 285
 Thr Glu Ala Ser Trp Asn Asp Thr Phe Ala Lys Ala Lys Asp Val Gln
 290 295 300
 Ala Leu Asp Pro Asp Thr Met Pro Asn Thr Tyr Leu Lys Tyr Tyr Leu
 305 310 315 320
 Phe Pro Asp Tyr Val Val Ala His Ser Asn Pro Glu Arg Thr Arg Ala
 325 330 335
 Asn Glu Val Met Asp His Arg Glu Lys His Val Phe Ser Ser Cys Arg
 340 345 350
 Ala Ile Ile Glu Ala Gly His Ser Ser Ala Gly Glu Leu Glu Ile Asp
 355 360 365
 Glu His Ala Ser Tyr Ile Val Asp Leu Ala Thr Ala Ile Ala Phe Asn
 370 375 380
 Thr Gln Glu Arg Met Leu Leu Ile Val Pro Asn Asn Gly Ala Ile His
 385 390 395 400
 Asn Phe Asp Ala Asp Ala Met Val Glu Ile Pro Cys Leu Val Gly His
 405 410 415
 Asn Gly Pro Glu Pro Leu Thr Val Gly Asp Ile Pro His Phe Gln Lys
 420 425 430
 Gly Leu Met Ser Gln Gln Val Ala Val Glu Lys Leu Val Val Asp Ala
 435 440 445
 Trp Glu Gln Arg Ser Tyr Gln Lys Leu Trp Gln Ala Ile Thr Leu Ser
 450 455 460
 Lys Thr Val Pro Ser Ala Ser Val Ala Lys Ala Ile Leu Asp Asp Leu
 465 470 475 480
 Ile Glu Ala Asn Lys Asp Tyr Trp Pro Glu Leu His
 485 490

<210> 9484

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 9484

```

Cys Tyr Trp Cys Cys Met Pro Asp Ser Arg Lys Ala Arg Arg Glu Ala
1      5      10      15
Asp Pro Gly Leu Gln Pro Glu Arg Thr Ser Leu Ala Trp Leu Arg Thr
      20      25      30
Leu Leu Gly Tyr Gly Ala Leu Ile Ala Leu Ala Ile Lys His Asn Trp
      35      40      45
His Arg Thr Gly Ala Pro Phe Trp Ile Ser Ile Val Val Leu Ala Leu
      50      55      60
Val Ala Ile Ile Leu Trp Arg Tyr Thr Arg Ser Arg Asn Leu Met Asp
65      70      75      80
Val Ser Gln Asn Asp Phe Ala Gln Pro Lys Ala Val Arg Asp Lys Phe
      85      90      95
Leu Ile Ala Leu Ala Val Leu Ser Leu Ser Leu Leu Phe Ala Val Thr
      100      105      110
His Ile Gln Gln Ile Leu His Leu
      115      120

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<210> 9485

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9485

```

Trp Gln Trp Thr Arg Gln Ala Ser Arg Met His Leu Ile Ser Met Lys
1      5      10      15
Ala Ile Leu Asp Ala Val Ser Gln Phe Pro Gln His Arg Glu Glu Leu
      20      25      30
Leu Phe Leu Gly Arg Val Ile Glu Lys Ser His Cys Pro Thr Pro Ala
      35      40      45
Ala Leu Arg Lys Leu Phe Pro Thr Leu Asp Asn Phe Lys Tyr Leu Asp
      50      55      60
Lys His Tyr Val Ile Asp Ile Ala Asn Asn Asn Leu Arg Val Val Ala
65      70      75      80
Leu Ile Phe Phe Glu Ser Gln Lys Phe Tyr Val Arg His Val Phe Thr
      85      90      95
His Lys Glu Tyr Asp Arg Phe Thr Glu Lys His Arg Thr Lys Gly Lys
      100      105      110
Lys

```

<210> 9486

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 9486

```

Arg Arg Ser Thr Ser Trp Lys Thr Ser Pro Lys Trp Arg Ala Thr Ser
1      5      10      15
Pro Ile Pro Pro Cys Leu Thr Lys Leu Arg Cys Ser Ser Asn Arg Ser
      20      25      30
Leu Lys Val Ser Val Phe Arg Ser Cys Arg Pro Asp Lys Arg Ser Ala
      35      40      45
Ile Arg Leu Phe Gln Thr Ala Gly Thr His Met Thr Thr Ile Ala Leu
      50      55      60
Ile Asp Asp His Leu Ile Val Arg Ser Gly Phe Ala Gln Leu Leu Asn

```

65				70					75				80		
Leu	Glu	Pro	Asp	Phe	Gln	Val	Val	Ala	Glu	Phe	Gly	Ser	Gly	Arg	Glu
				85					90					95	
Ala	Leu	Ala	Gly	Leu	Pro	Gly	Arg	Gly	Val	Gln	Val	Cys	Ile	Cys	Asp
			100					105					110		
Ile	Ser	Met	Pro	Asp	Leu	Ser	Gly	Leu	Glu	Leu	Leu	Ser	Gln	Leu	Pro
			115					120				125			
Lys	Gly	Met	Ala	Thr	Ile	Met	Leu	Ser	Val	His	Asp	Ser	Pro	Ala	Leu
			130			135					140				
Val	Glu	Gln	Ala	Leu	Asn	Ala	Gly	Ala	Arg	Gly	Phe	Leu	Ser	Lys	Arg
145				150						155					160
Cys	Ser	Pro	Asp	Glu	Leu	Ile	Ala	Ala	Val	Arg	Thr	Val	Ser	Thr	Gly
				165					170					175	
Gly	Cys	Tyr	Leu	Thr	Pro	Asp	Ile	Ala	Ile	Lys	Leu	Ala	Ala	Gly	Arg
			180					185					190		
Gln	Asp	Pro	Leu	Thr	Arg	Arg	Glu	Arg	Gln	Val	Ala	Glu	Lys	Leu	Ala
			195				200					205			
Gln	Gly	Met	Ser	Val	Lys	Glu	Ile	Ala	Val	Glu	Leu	Gly	Leu	Ser	Pro
			210			215				220					
Lys	Thr	Val	His	Val	His	Arg	Ala	Asn	Leu	Met	Glu	Lys	Leu	Asn	Val
225				230						235					240
Ser	Asn	Asp	Val	Glu	Leu	Ala	Arg	Arg	Met	Phe	Asp	Ser	Trp	Gln	
			245					250						255	

<210> 9487

<211> 440

<212> PRT

<213> Enterobacter cloacae

<400> 9487

Gly	Arg	Ile	Met	Phe	Lys	Thr	Pro	Ala	Ser	Ala	Ala	Pro	Leu	Ser	Asn
1				5					10					15	
Lys	Ala	Glu	Ile	Asp	Ser	Arg	Tyr	Arg	Tyr	Trp	Arg	Arg	His	Ile	Leu
			20					25					30		
Ile	Thr	Ile	Trp	Leu	Gly	Tyr	Ala	Leu	Phe	Tyr	Phe	Thr	Arg	Lys	Ser
			35				40					45			
Phe	Asn	Ala	Ala	Ala	Pro	Glu	Ile	Leu	Ala	Ser	Gly	Val	Met	Thr	Arg
			50			55					60				
Thr	Asp	Ile	Gly	Leu	Leu	Ala	Thr	Leu	Phe	Tyr	Ile	Thr	Tyr	Gly	Leu
65				70					75					80	
Ser	Lys	Phe	Phe	Ser	Gly	Ile	Val	Ser	Asp	Arg	Ser	Asn	Ala	Arg	Tyr
				85					90					95	
Phe	Met	Gly	Val	Gly	Leu	Ile	Ala	Thr	Gly	Val	Val	Asn	Ile	Leu	Phe
			100					105				110			
Gly	Phe	Ser	Thr	Ser	Leu	Trp	Ala	Phe	Ala	Leu	Leu	Trp	Ala	Leu	Asn
			115				120					125			
Ala	Phe	Phe	Gln	Gly	Trp	Gly	Ala	Pro	Val	Cys	Ala	Arg	Leu	Leu	Thr
			130			135					140				
Ala	Trp	Tyr	Ser	Arg	Asn	Glu	Arg	Gly	Gly	Trp	Trp	Ala	Ile	Trp	Asn
145				150						155					160
Thr	Ala	His	Asn	Val	Gly	Gly	Ala	Leu	Ile	Pro	Met	Val	Val	Gly	Ala
			165					170						175	
Ala	Ala	Leu	His	Tyr	Gly	Trp	Arg	Ala	Gly	Met	Met	Ile	Ala	Gly	Gly
			180				185					190			
Leu	Ala	Ile	Val	Ala	Gly	Leu	Phe	Leu	Cys	Trp	Arg	Leu	Arg	Asp	Arg
			195				200					205			
Pro	Gln	Thr	Val	Gly	Leu	Pro	Pro	Val	Gly	Asp	Trp	Arg	His	Asp	Glu
			210			215					220				
Met	Glu	Ile	Ala	Gln	Gln	Gln	Glu	Gly	Ala	Gly	Leu	Ser	Arg	Gln	Glu
225				230						235					240
Ile	Leu	Thr	Lys	Tyr	Val	Leu	Lys	Asn	Pro	Tyr	Ile	Trp	Leu	Leu	Ser

245 250 255
 Leu Cys Tyr Val Leu Val Tyr Val Val Arg Ala Ala Ile Asn Asp Trp
 260 265 270
 Gly Asn Leu Tyr Met Ser Glu Thr Leu Gly Val Asp Leu Val Thr Ala
 275 280 285
 Asn Ser Ala Val Thr Met Phe Glu Leu Gly Gly Phe Ile Gly Ala Leu
 290 295 300
 Val Ala Gly Trp Gly Ser Asp Lys Leu Phe Asn Gly Asn Arg Gly Pro
 305 310 315 320
 Met Asn Leu Ile Phe Ala Ala Gly Ile Leu Leu Ser Val Gly Ser Leu
 325 330 335
 Trp Leu Met Pro Phe Ala Ser Tyr Val Met Gln Ala Ala Cys Phe Phe
 340 345 350
 Thr Ile Gly Phe Phe Val Phe Gly Pro Gln Met Leu Ile Gly Met Ala
 355 360 365
 Ala Ala Glu Cys Ser His Lys Glu Ala Ala Gly Ala Ala Thr Gly Phe
 370 375 380
 Val Gly Leu Phe Ala Tyr Leu Gly Ala Ser Leu Ser Gly Trp Pro Leu
 385 390 395 400
 Ala Arg Val Ile Asp Ile Trp His Trp Ser Gly Phe Phe Ala Val Ile
 405 410 415
 Ala Ile Ala Ala Gly Ile Ser Ala Leu Leu Leu Pro Phe Leu His
 420 425 430
 Ala Gln Ala Pro Arg Glu Ala
 435 440

<210> 9488

<211> 508

<212> PRT

<213> Enterobacter cloacae

<400> 9488

Arg Ala Ser Pro Phe Ala Ala Glu Thr Arg Lys Thr Lys Lys Phe Ser
 1 5 10 15
 Arg Phe His Leu Asp Ala Val Ser Gly Ile Ser Pro Gly Trp Phe Leu
 20 25 30
 Gln Cys Cys Lys Asn Gln Leu Arg Ser Lys Pro Thr Met Leu Ala Phe
 35 40 45
 Leu Asn Gln Val Arg Lys Pro Thr Leu Asp Leu Pro Leu Asp Val Arg
 50 55 60
 Arg Lys Met Trp Phe Lys Pro Phe Met Gln Ser Tyr Leu Val Val Phe
 65 70 75 80
 Ile Gly Tyr Leu Thr Met Tyr Leu Ile Arg Lys Asn Phe Asn Ile Ala
 85 90 95
 Gln Asn Asp Met Ile Ser Thr Tyr Gly Leu Ser Met Thr Gln Leu Gly
 100 105 110
 Met Ile Gly Leu Gly Phe Ser Ile Thr Tyr Gly Val Gly Lys Thr Val
 115 120 125
 Val Ser Tyr Tyr Ala Asp Gly Lys Asn Thr Lys Gln Phe Leu Pro Phe
 130 135 140
 Met Leu Ile Leu Ser Ala Ile Cys Met Leu Gly Phe Ser Ala Ser Met
 145 150 155 160
 Gly Ala Gly Ser Val Ser Leu Phe Leu Met Ile Ala Phe Tyr Ala Leu
 165 170 175
 Ser Gly Phe Phe Gln Ser Thr Gly Gly Ser Cys Ser Tyr Ser Thr Ile
 180 185 190
 Thr Lys Trp Thr Pro Arg Arg Lys Arg Gly Ser Tyr Leu Gly Met Trp
 195 200 205
 Asn Ile Ser His Asn Leu Gly Gly Ala Gly Ala Ala Gly Val Ala Leu
 210 215 220
 Phe Gly Ala Asn Tyr Leu Phe Asp Gly His Val Ile Gly Met Phe Ile

225 230 235 240
 Phe Pro Ser Ile Ile Ala Leu Ile Val Gly Phe Ile Gly Leu Arg Tyr
 245 250 255
 Gly Ser Asp Ser Pro Glu Ser Tyr Gly Leu Gly Lys Ala Glu Glu Leu
 260 265 270
 Phe Gly Glu Glu Ile Ser Glu Glu Asp Lys Asp Thr Glu Glu Asn Glu
 275 280 285
 Met Thr Lys Trp Gln Ile Phe Val Glu Tyr Val Leu Lys Asn Lys Val
 290 295 300
 Ile Trp Leu Leu Cys Phe Ser Asn Ile Phe Leu Tyr Val Val Arg Ile
 305 310 315 320
 Gly Ile Asp Gln Trp Ser Thr Val Tyr Ala Phe Gln Glu Leu Lys Leu
 325 330 335
 Ser Lys Glu Val Ala Ile Gln Gly Phe Thr Leu Phe Glu Val Gly Ala
 340 345 350
 Leu Val Gly Thr Leu Leu Trp Gly Trp Leu Ser Asp Leu Ala Asn Gly
 355 360 365
 Arg Arg Ala Leu Val Ala Cys Ile Ala Leu Ala Leu Ile Ile Ala Thr
 370 375 380
 Leu Gly Val Tyr Gln His Ala Ser Asn Gln Tyr Val Tyr Leu Ala Ser
 385 390 395 400
 Leu Phe Ala Leu Gly Phe Leu Val Phe Gly Pro Gln Leu Leu Ile Gly
 405 410 415
 Val Ala Ala Val Gly Phe Val Pro Lys Lys Ala Ile Gly Ala Ala Asp
 420 425 430
 Gly Ile Lys Gly Thr Phe Ala Tyr Leu Ile Gly Asp Ser Phe Ala Lys
 435 440 445
 Leu Gly Leu Gly Met Ile Ala Asp Gly Thr Pro Ile Phe Gly Leu Thr
 450 455 460
 Gly Trp Ala Gly Thr Phe Ala Ala Leu Asp Ala Ala Ala Ile Gly Cys
 465 470 475 480
 Ile Val Leu Met Ala Met Val Ala Val Leu Glu Glu Arg Lys Ile Arg
 485 490 495
 Arg Glu Asn Arg Ala Gln Lys Leu Lys Val Ala
 500 505

<210> 9489

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 9489

Arg Val Met Met Met Ile Ala Leu Glu Glu Ala Val Met Glu Ile Ile
 5 10 15
 Val Asn Ala Gly Gln Ser Arg Ser Leu Cys Phe Glu Ala Leu His Ala
 20 25 30
 Ala Arg Gln Gly Asn Leu Asp Glu Ala Lys Ser Leu Leu Arg Glu Ala
 35 40 45
 Asp Gly Tyr Ala Arg Gln Ala His Lys Met Gln Thr Lys Leu Ile Glu
 50 55 60
 Gln Asp Ala Gly Glu Ala Arg Gln Pro Met Thr Leu Ile Met Val His
 65 70 75 80
 Ala Gln Asp His Leu Met Asn Ser Leu Leu Ala Arg Glu Leu Ser Glu
 85 90 95
 Glu Ile Ile His Leu Tyr Gln Arg
 100 105

<210> 9490

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 9490

Ile Lys Leu Asn Tyr Ile Glu Ile Thr Met Asn Thr Ile Lys Lys Leu
 1 5 10 15
 Pro Leu Thr Met Ala Val Ile Ala Ala Leu Cys Pro Ile Ser Val Leu
 20 25 30
 Ala Gln Glu Phe Thr Gln Glu Gln Ile Asp Ala Ile Val Ala Lys Ala
 35 40 45
 Val Asp Lys Ala Leu Ala Glu Arg Gln Ala Lys Met Asp Ala Ala Val
 50 55 60
 Ala Lys Lys Ala Asp Val Thr Glu Pro Gln Ser Ala Ala Gln Ser
 65 70 75 80
 Pro Asp Met Ala Ile Pro Phe Gly Val Lys Phe Thr Gly Tyr Ala Arg
 85 90 95
 Tyr Gly Ala His Phe Gln Ala Ala Asp Gln Lys Tyr Val Ala Val Asp
 100 105 110
 Gly Ser Tyr Asn Gly Ala Ser Ala Ile Gly Arg Leu Gly Asn Glu Gly
 115 120 125
 Asn Gly Gly Glu Phe Gln Leu Ser Lys Ala Phe Lys Gly Glu Asn Gly
 130 135 140
 Ala Ile Trp Asp Ile Asn Val Met Ile Asp His Trp Gly Asp Glu Val
 145 150 155 160
 Asn Leu Lys Lys Ala Tyr Ala Gly Val Thr Asn Ile Met Ala Ser Asn
 165 170 175
 Pro Asn Ala Tyr Phe Trp Ala Gly Arg Asp Phe His Gln Arg Pro Gln
 180 185 190
 Gln Gly Ile Asn Asp Tyr Phe Trp Met Asn His Asp Gly Gln Gly Ala
 195 200 205
 Gly Val Lys Asn Phe Asp Ile Gly Gly Val Gln Phe Asp Val Ala Ala
 210 215 220
 Val Ala Ala Val Glu Ser Cys Ser Pro Glu Val Met Glu Asp Glu Ala
 225 230 235 240
 Asn Pro Ser Arg Ile Thr Cys Thr Gly Gly Ser Gly Thr Gly Asp Lys
 245 250 255
 Gly Asn Tyr Ala Ala Thr Ser Lys Ile His Gly Met Lys Leu Gly Pro
 260 265 270
 Leu Asp Leu Glu Leu Tyr Ala Asn Tyr Gly Phe Asp Ser Lys Ala Val
 275 280 285
 Glu Ser Asp Glu Arg Leu Asn Ala Trp Gln Gly Gly Val Val Leu Ser
 290 295 300
 His Thr Asn Asp Ser Gly Val Asn Lys Val Ile Ala Arg Tyr Ser Asp
 305 310 315 320
 Asn Ser Asp Asn Ser Val Phe Asn Lys Thr Glu Asp Leu Thr Thr Val
 325 330 335
 Tyr Ala Ser Phe Glu Gly Leu Tyr Lys Phe Thr Gln Ala Thr Gln Val
 340 345 350
 Glu Tyr Ile Leu Ala Phe His Asp Tyr Asp Asn Ser Arg Asp Lys Thr
 355 360 365
 Asp Asn Arg Lys Asn Tyr Asn Ala Ile Val Arg Pro Met His Trp Trp
 370 375 380
 Asn Asp Val His Ser Thr Trp Leu Glu Ala Gly Trp Gln His Val Asp
 385 390 395 400
 Tyr Asp Asn Gly Gly Asp Asn Lys Gly Trp Lys Leu Thr Leu Ser Gln
 405 410 415
 Asn Met Ser Ile Ala Met Gly Pro Glu Phe Arg Pro Met Leu Arg Phe
 420 425 430
 Tyr Val Thr Gly Gly Lys Val Asp Asn Glu Arg Thr Ala Arg Val Asn
 435 440 445
 Asn Thr Lys Asp Glu Thr Leu Asp Asp Phe Asn Val Gly Ala Met Trp
 450 455 460
 Glu Ala Trp Phe

465

<210> 9491

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 9491

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Ser Lys Ser Lys Thr Ala Thr Lys Val Ala Val Phe Asn Val Arg Ser
1      5      10      15
Leu Ser Pro Trp Glu Arg Ala Gly Val Arg Ala Ser Gly Arg Thr Gln
20      25      30
Pro Cys Tyr Ala Val Asp Arg Ile Asn Asp Asn Ile Thr Gly Glu Asn
35      40      45
Met Gly Ser Thr Arg Lys Gly Met Leu Asn Val Leu Ile Ala Ala Val
50      55      60
Leu Trp Gly Ser Ser Gly Val Cys Ala Gln Tyr Ile Met Glu Lys Ser
65      70      75      80
His Ile Ser Ser Pro Tyr Leu Thr Met Val Arg Leu Leu Phe Thr Gly
85      90      95
Val Ile Leu Leu Thr Leu Ser Phe Val His Gly Asp Lys Ile Phe Ser
100     105     110
Val Ile Lys Asn Arg Lys Asp Ala Leu Ser Leu Leu Phe Phe Ser Leu
115     120     125
Val Gly Ala Leu Thr Val Gln Leu Thr Phe Leu Leu Thr Ile Glu Lys
130     135     140
Ser Asn Ala Ala Thr Ala Thr Val Leu Gln Phe Leu Ser Pro Thr Ile
145     150     155     160
Ile Val Ala Trp Phe Ala Leu Ala Arg Lys Thr Arg Pro Gly Ile Phe
165     170     175
Val Leu Ser Ala Ile Phe Thr Ser Leu Val Gly Thr Phe Leu Leu Val
180     185     190
Thr His Gly Asp Pro Thr Ser Leu Ser Ile Ser Pro Ala Ala Leu Phe
195     200     205
Phe Gly Ile Ala Ser Ala Phe Ala Ala Ala Phe Tyr Thr Thr Tyr Pro
210     215     220
Ser Thr Leu Ile Ala Arg Tyr Gly Thr Leu Pro Ile Val Gly Trp Ser
225     230     235     240
Met Leu Ile Ala Gly Leu Met Leu Thr Pro Phe Tyr Ala Gly Arg Gly
245     250     255
Thr Thr Phe Val Ile Asp Gly Gly Leu Leu Leu Ala Phe Phe Tyr Leu
260     265     270
Val Val Ile Gly Thr Ala Leu Thr Phe Ser Leu Tyr Leu Lys Gly Ala
275     280     285
Gln Met Ile Gly Gly Pro Lys Ala Ser Ile Leu Ser Cys Ala Glu Pro
290     295     300
Leu Ser Ser Ala Leu Leu Ser Val Val Leu Leu Gly Val Ala Phe Thr
305     310     315     320
Leu Pro Asp Trp Leu Gly Thr Leu Leu Ile Val Ser Ser Val Val Leu
325     330     335
Ile Ser Met Asp Ser Arg Arg Arg Val Lys Ala Ser Ala
340     345     350

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<210> 9492

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 9492

```

Gln Asn Ile Met Lys Ala Asp Leu Arg Thr Leu Asp Leu Asn Leu Leu
1      5      10      15

```

Lys Thr Leu Asp Ala Leu Leu Asp Glu Arg Ser Val Thr Arg Ala Ala
 20 25 30
 Ala Arg Leu Ala Leu Thr Gln Pro Ala Val Ser Gly Met Leu Asn Arg
 35 40 45
 Leu Arg Asp Tyr Phe Asp Asp Pro Leu Phe Ile Arg Ala Pro His Gly
 50 55 60
 Met Val Pro Thr Thr Arg Ala Glu Ala Leu Ala Ala Pro Val Lys Arg
 65 70 75 80
 Ile Leu Ala Asp Ile Asp Val Leu Leu Gln Pro Val Ala Phe Asp Pro
 85 90 95
 Asn Thr Ala Arg Leu Thr Phe Thr Leu Ala Ala Thr Asp Tyr Ala Leu
 100 105 110
 Arg Ala Val Val Val Pro Phe Ile Ala Ala Leu Lys Thr Gln Ala Pro
 115 120 125
 Gly Ile Arg Val Arg Val Val Pro Val Thr Pro Gly Ser Leu Val Ser
 130 135 140
 Gln Leu Glu Gln Gly Ala Ile Asp Val Ala Leu Ile Thr Pro His Thr
 145 150 155 160
 Thr Pro Asp Glu Leu His Ser Arg Ala Leu Tyr Asp Glu Arg Tyr Val
 165 170 175
 Cys Met Met Arg Ala Asp His Pro Asn Ala Gly Glu Pro Met Thr Leu
 180 185 190
 Asp Arg Phe Cys Ala Leu Glu His Val Leu Val Ser Tyr Glu Gly Asp
 195 200 205
 Gly Phe Arg Gly Val Thr Asp Ser Ala Leu Glu Lys Ile Gly Arg Thr
 210 215 220
 Arg His Val Gly Leu Ser Val Ser His Phe Leu Val Leu Pro Asp Val
 225 230 235 240
 Leu Ala Leu Ser Asp Met Ile Ala Val Val Pro Ser Arg Ile Ala Glu
 245 250 255
 Asn Gln Thr Gly Met Phe Ile Cys Glu Thr Pro Val Pro Val Pro Gly
 260 265 270
 Phe Thr Lys Ser Met Ala Trp His Gly Arg Thr His Arg Asn Pro Ala
 275 280 285
 Gln Ala Trp Leu Arg Gly Leu Leu Leu Gln Thr Ser Gln Arg Ala
 290 295 300

<210> 9493

<211> 447

<212> PRT

<213> Enterobacter cloacae

<400> 9493

Asp Met Gly Ser Gln Val Trp Val Val Ala Thr Leu Leu Val Ser Ile
 1 5 10 15
 Val Leu Ile Val Leu Thr Ile Val Lys Leu Lys Phe His Pro Phe Leu
 20 25 30
 Ala Leu Leu Leu Ala Ser Phe Phe Val Gly Ala Met Met Gly Met Ser
 35 40 45
 Pro Leu Asp Met Val Asn Ala Ile Glu Ser Gly Ile Gly Thr Leu
 50 55 60
 Gly Phe Leu Ala Ala Val Ile Gly Leu Gly Thr Ile Leu Gly Lys Met
 65 70 75 80
 Met Glu Val Ser Gly Ala Ala Glu Arg Ile Gly Ile Thr Leu Gln Arg
 85 90 95
 Cys Arg Trp Leu Ser Ala Asp Val Ile Met Val Leu Val Gly Leu Ile
 100 105 110
 Cys Gly Ile Thr Leu Phe Val Glu Val Gly Val Val Leu Leu Ile Pro
 115 120 125
 Leu Ala Phe Ser Ile Ala Lys Lys Thr Asn Thr Ser Leu Leu Lys Leu
 130 135 140

Ala Ile Pro Leu Cys Thr Ala Leu Met Ala Val His Cys Val Val Pro
 145 150 155 160
 Pro His Pro Ala Ala Leu Phe Val Thr Asn Lys Leu Gly Ala Asp Val
 165 170 175
 Gly Thr Val Ile Val Tyr Gly Leu Met Val Gly Leu Met Ala Ser Leu
 180 185 190
 Val Gly Gly Pro Leu Phe Leu Lys Leu Leu Gly Asn His Leu Pro Tyr
 195 200 205
 Lys Pro Val Pro Ala Glu Phe Ser Asp Leu Lys Val Arg Glu Glu His
 210 215 220
 Thr Leu Pro Ser Leu Gly Ala Thr Leu Phe Thr Val Leu Leu Pro Ile
 225 230 235 240
 Ala Leu Met Leu Val Lys Thr Ile Ala Glu Leu Asn Met Ala Lys Glu
 245 250 255
 Gly Ser Leu Tyr Thr Leu Leu Glu Phe Ile Gly Asn Pro Ile Thr Ala
 260 265 270
 Met Phe Ile Ala Val Phe Val Ala Tyr Tyr Leu Leu Gly Ile Arg Gln
 275 280 285
 His Met Gly Met Gly Ala Met Leu Thr His Thr Glu His Gly Phe Gly
 290 295 300
 Ser Ile Ala Asn Ile Leu Leu Ile Ile Gly Ala Gly Gly Ala Phe Asn
 305 310 315 320
 Ala Ile Leu Lys Thr Ser Gly Leu Ala Glu Thr Leu Ala His Ile Leu
 325 330 335
 Ser Asn Leu His Met His Pro Ile Leu Leu Ala Trp Leu Val Ala Leu
 340 345 350
 Val Leu His Ala Ala Val Gly Ser Ala Thr Val Ala Met Met Gly Ala
 355 360 365
 Thr Ala Ile Val Ala Pro Met Leu Pro Leu Tyr Pro Asn Val Ser Pro
 370 375 380
 Glu Ile Ile Thr Ile Ala Ile Gly Ser Gly Ala Ile Gly Cys Thr Ile
 385 390 395 400
 Val Thr Asp Ser Leu Phe Trp Leu Val Lys Gln Tyr Cys Gly Ala Thr
 405 410 415
 Leu Asn Glu Thr Phe Lys Tyr Tyr Thr Thr Ala Thr Phe Ile Ala Ser
 420 425 430
 Val Leu Ala Leu Gly Gly Thr Phe Leu Leu Ser Phe Ile Ile
 435 440 445

<210> 9494

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 9494

Cys Ala Gln Arg Gly Leu Leu Val Ile Tyr Lys Ser Ile Ala Asp Arg
 1 5 10 15
 Leu Arg Leu Arg Leu Asn Ser Ser Asp Tyr Asn Ile Gly Ser Pro Leu
 20 25 30
 Pro Gly Glu Lys Ala Leu Ala Lys Glu Phe Gly Val Ala Arg Met Thr
 35 40 45
 Val Arg Lys Ala Leu Asp Leu Leu Val Ser Trp Gly Leu Val Glu Arg
 50 55 60
 Arg His Gly Ser Gly Thr Phe Val Ala Arg Lys Asp Val His His Glu
 65 70 75 80
 Thr Thr Asn Leu Thr Gly Leu Val Glu Val Leu Arg Gln Gln Gly Lys
 85 90 95
 Glu Val Gln Ser Lys Val Leu Gln Phe Glu Val Met Pro Ala Pro Pro
 100 105 110
 Ala Ile Ala Ser Gln Leu Arg Ile Gln Val Asp Glu Arg Ile Tyr Phe
 115 120 125


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Ser Arg Arg Val Arg Tyr Val Asp Gly Lys Pro Leu Met Leu Glu Asp
130 135 140
Ser Phe Met Pro Val Lys Leu Phe Arg Asn Leu Ser Leu Ala His Leu
145 150 155
Glu Gly Ser Lys Phe Asp Tyr Ile Glu Lys Glu Cys Gly Ile Thr Ile
160 165 170 175
Ser Gly Asn Tyr Glu Ser Leu Thr Pro Val Leu Ala Asp Lys Gln Leu
180 185 190
Ala Gly Tyr Met Asn Val Pro Glu Gln Thr Pro Leu Leu Arg Ile Thr
195 200 205
Ser Leu Ser Tyr Ser Asp Ser Gly Glu Phe Leu Asn Tyr Ser Val Met
210 215 220
Phe Arg Asn Thr Ser Asp Tyr Gln Val Asp Tyr His Leu Arg Arg Ile
225 230 235 240
His Pro Glu Asp Leu Leu Ala His Pro Pro Glu
245 250

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<210> 9495

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9495

```

Ile Thr Glu Ala Asp Asp Tyr Arg Gln Leu Leu Gly Glu Asp Lys Phe
1 5 10 15
Leu Asp Arg Pro Gly Asn Ala Val Phe Gln Val Arg Phe Gly His Glu
20 25 30
Val Arg His Phe Phe Tyr Arg Arg Asp Gly Val Ile His Arg His Ala
35 40 45
His Ala Cys Ile Phe Asp His Arg Asn Ile Val Phe Leu Val Ala Gln
50 55 60
Arg His Asp Leu Leu Arg Leu Asp Ala Gln Arg Ile Gly Lys Arg Phe
65 70 75 80
Asp Ala Arg Ala Phe Ile Asp Ala Phe Ile Glu Asp Phe Glu Glu Val
85 90 95
Arg Arg Thr Phe Gln Tyr Gly Val Phe Leu Phe Tyr Leu Ser Arg Asn
100 105 110
Ala

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<210> 9496

<211> 456

<212> PRT

<213> Enterobacter cloacae

<400> 9496

```

His Phe Pro Asp Asn Phe Trp Trp Gly Ser Ala Ser Ser Ala Leu Gln
1 5 10 15
Thr Glu Gly Thr Arg Glu Gly Glu Thr Thr Trp Asp Tyr Trp Phe Ala
20 25 30
Arg Glu Pro Asn Arg Phe His Asn Gly Val Gly Pro Gln His Thr Ser
35 40 45
Thr Phe Tyr Gln His Trp Lys Thr Asp Ile Gln Leu Leu Lys Gln Leu
50 55 60
Asn His Asn Ser Phe Arg Thr Ser Ile Ser Trp Ala Arg Leu Ile Pro
65 70 75 80
Asp Gly Ile Gly Glu Val Asn Pro Asp Ala Val Asp Phe Tyr Asn Gln
85 90 95
Val Ile Asp Glu Leu Asn Glu Gln Gly Ile Thr Pro Phe Ile Thr Leu
100 105 110
Phe His Phe Asp Met Pro Met Ala Met Gln Glu Ile Gly Gly Trp Glu

```

115 120 125
 Asn Arg Asp Val Val Asp Ala Tyr Ala Arg Tyr Ala Gln Ile Cys Phe
 130 135 140
 Glu Leu Phe Gly Asp Arg Val Leu His Trp Phe Thr Phe Asn Glu Pro
 145 150 155 160
 Ile Val Pro Val Glu Gly Gly Tyr Leu Tyr Asp Phe His Tyr Pro Asn
 165 170 175
 Val Val Asp Phe Arg Arg Ala Ala Thr Val Ala Tyr His Thr Val Leu
 180 185 190
 Ala His Ala Lys Ala Val Gln Ala Tyr Arg Ala Gly His Tyr Ala Gly
 195 200 205
 Glu Ile Gly Ile Val Leu Asn Leu Thr Pro Ser Tyr Pro Arg Ser Gln
 210 215 220
 Asn Pro Ala Asp Val Lys Ala Ala His Val Ala Asp Leu Met Phe Asn
 225 230 235 240
 Arg Ser Phe Leu Asp Pro Val Leu Arg Gly Glu Tyr Pro Ala Asp Leu
 245 250 255
 Val Ala Leu Leu Lys Ser Tyr Asp Gln Leu Pro Ala Cys Lys Pro Glu
 260 265 270
 Asp Gly Phe Leu Ile Ala Glu Gly Lys Ile Asp Leu Leu Gly Ile Asn
 275 280 285
 Tyr Tyr Gln Pro Arg Arg Val Lys Cys Arg Asp Ser Ala Val Asn Pro
 290 295 300
 Gln Ala Pro Phe Met Pro Glu Trp Phe Phe Asp Asn Tyr Glu Met Pro
 305 310 315 320
 Gly Arg Lys Met Asn Pro Tyr Arg Gly Trp Glu Ile Tyr Glu Pro Gly
 325 330 335
 Ile Tyr Asp Ile Leu Val Asn Leu Arg Asp His Tyr Gly Asn Pro Arg
 340 345 350
 Cys Phe Ile Ser Glu Asn Gly Met Gly Val Glu Asn Glu Gln Arg Phe
 355 360 365
 Ile Glu Asn Gly Gln Ile Asn Asp Gln Tyr Arg Ile Asp Phe Ile Ser
 370 375 380
 Glu His Leu Ser Trp Leu His Lys Gly Ile Ser Glu Gly Cys Asn Cys
 385 390 395 400
 Leu Gly Tyr His Met Trp Thr Phe Ile Asp Asn Trp Ser Trp Cys Asn
 405 410 415
 Ala Tyr Lys Asn Arg Tyr Gly Phe Ile Gln Leu Asp Val Glu Thr Gln
 420 425 430
 Gln Arg Thr Ile Lys Lys Ser Gly Glu Trp Phe Ala Thr Ala Leu
 435 440 445
 Asn Asn Ser Phe Asp Lys Glu
 450 455

<210> 9497

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 9497

His Phe Thr Asn Arg Tyr Ala Met Thr Ile Thr Val Phe Cys Ile Leu
 1 5 10 15
 Leu Phe Ala Ala Leu Leu His Ala Ser Trp Asn Ala Ile Val Lys Ala
 20 25 30
 Gly Thr Asp Lys Leu Tyr Ser Ala Ile Gly Val Ser Gly Ser Ala Ala
 35 40 45
 Leu Ile Ala Leu Ile Leu Leu Pro Phe Ser Pro Gln Pro Thr Ala Ala
 50 55 60
 Ser Trp Pro Tyr Leu Phe Val Ser Cys Ala Leu Gln Val Val Tyr Thr
 65 70 75 80
 Val Leu Val Ala Lys Thr Tyr Gln Val Ser Asp Met Ser Gln Thr Tyr

85 90 95
 Pro Leu Met Arg Gly Thr Ala Pro Leu Leu Val Ala Leu Ile Ser Val
 100 105 110
 Met Val Leu Gly Asp His Leu Ser Arg Phe Ala Trp Ser Gly Ile Gly
 115 120 125
 Val Ile Cys Leu Ser Ile Leu Ala Met Ala Met Asn Gly Arg Met Gln
 130 135 140
 Ser Arg Lys Gly Leu Trp Leu Ala Leu Leu Asn Ala Cys Phe Ile Ala
 145 150 155 160
 Gly Tyr Thr Leu Val Asp Gly Thr Gly Val Arg Leu Ser Asp Thr Ala
 165 170 175
 Leu Gly Tyr Thr Leu Trp Thr Phe Phe Met Asn Gly Phe Cys Leu Leu
 180 185 190
 Ser Trp Ala Met Val Ala Arg Arg Arg Glu Ala Ser Ser Tyr Leu Arg
 195 200 205
 Leu His Trp Lys Lys Gly Leu Leu Gly Gly Val Gly Thr Met Gly Ser
 210 215 220
 Tyr Gly Leu Ala Leu Trp Ala Met Thr Gln Ala Pro Leu Ala Val Val
 225 230 235 240
 Ala Ala Leu Arg Glu Thr Ser Ile Leu Phe Gly Ala Leu Ile Ala Phe
 245 250 255
 Val Leu Leu Lys Glu Lys Val Ala Gly Leu Arg Ile Ala Ala Leu
 260 265 270
 Gly Ile Ala Ala Gly Ala Ile Leu Leu Arg Leu Ala 285
 275 280

<210> 9498

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 9498

Val Met Met Arg Asn Val Leu Ile Lys Leu Ala Thr Phe Ser Gly Val
 1 5 10 15
 Val Leu Leu Cys Gly Cys Ser Ser Val Met Ser His Thr Gly Gly Lys
 20 25 30
 Glu Gly Thr Tyr Pro Gly Thr Arg Ala Ser Ala Ala Met Ile Ser Asp
 35 40 45
 Asp Glu Thr Asn Trp Gly Thr Lys Ser Leu Ala Ile Leu Asp Met Pro
 50 55 60
 Phe Thr Ala Val Ala Asp Thr Leu Leu Leu Pro Trp Asp Met Phe Arg
 65 70 75 80
 Thr Asp Ser Ser Val Arg Ser Arg Val Glu Lys Ser Glu Gln Glu Thr
 85 90 95
 Leu Ala Thr Asn Ser Val Ile Pro Pro Ala Ala Met Pro Pro Arg
 100 105 110

<210> 9499

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 9499

Tyr Asn Ser Ser Met Thr Asp Thr Leu Lys Asp Ile Pro Val Phe Val
 1 5 10 15
 Ala Ser Val Glu Ala Gly Ser Phe Ala Gln Ala Ala Val Arg Leu His
 20 25 30
 Leu Ser Arg Ser Ala Val Gly Lys Ser Ile Ala Arg Leu Glu Glu Arg
 35 40 45
 Leu Gly Val Arg Leu Phe His Arg Thr Thr Arg Ser Gln Arg Leu Thr
 50 55 60

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Asp Asn Gly Ala Leu Phe Tyr Glu Arg Cys Leu Arg Ala Leu Glu Glu
65      70      75      80
Ile Arg Gly Ala Glu Ser Gln Leu Glu Thr Gly Lys His Gln Val Ser
      85      90      95
Gly Arg Leu Arg Val Ala Met Pro Val Leu Phe Gly Arg Gln Cys Ile
      100      105      110
Ala Pro Leu Leu Ile Glu Leu Ala Gln Glu His Pro Gly Leu Glu Leu
      115      120      125
Glu Met Ser Phe Ser Asp Arg Ile Val Asp Leu Val Glu Glu Gly Phe
      130      135      140
Asp Met Ala Val Arg Asn Gly Thr Leu Ala Asp Ser Ala Val Leu Val
145      150      155      160
Ala Arg Arg Leu Gly Val His Arg Met Val Leu Cys Ala Ala Pro Asp
      165      170      175
Tyr Leu Ile Lys Asn Gly Gln Pro Gln Ser Val Asp Asp Leu Arg Gln
      180      185      190
Tyr Thr Ala Ile Asn Tyr Thr Arg Ala Gly Arg Val Leu Pro Trp Gln
      195      200      205
Leu Met Asp Tyr Asp Gly Thr Ser Arg Thr Phe Ile Pro Arg Ser Ser
210      215      220
Leu Asn Met Asp Asp Leu Gln Ala Ile Cys Asp Ala Ala Leu Ala Gly
225      230      235      240
His Gly Ile Ala Trp Leu Pro Cys Trp Met Val Ile Lys Glu Ile His
      245      250      255
Gln Gly Asn Leu Val Pro Leu Phe Lys Gln Ala Pro Asp Val Arg Phe
      260      265      270
Asp Val His Ala Val Trp Gln Gln Thr Pro His Leu Pro Leu Arg Val
275      280      285
Arg Ile Ala Ile Asp Met Leu Val Lys Arg Leu Pro Ala Val Met Ser
290      295      300
Leu Glu Phe Pro Ala Ser Ile Lys Lys Pro Arg
305      310      315

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<210> 9500

<211> 482

<212> PRT

<213> Enterobacter cloacae

<400> 9500

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Ser Ala Ala Ser Tyr Val Val Val Lys Arg Arg Leu Asn Ile Asp Ile
1      5      10      15
Arg Arg Leu Gln Gly Val Leu Phe Asp Glu Gly Ala Thr Trp Phe Asn
      20      25      30
Arg Ile Ala His Gln Gly Arg Glu Gln Leu Ile Arg Cys Asp Cys Val
      35      40      45
Phe Asn Gly Asp Ala Gln His Ala Thr Ala Phe Arg Ile His Ser Gly
      50      55      60
Phe Pro Gln Leu Ile Arg Val His Phe Ala Gln Ala Phe Ile Thr Leu
65      70      75      80
Asn Arg Glu Ala Ala Thr Gly Leu Phe His Gln Pro Leu Gln Arg Leu
      85      90      95
Phe Glu Ala Gly Tyr Arg Leu Thr Thr Leu Ala Thr Phe Asp Glu Arg
      100      105      110
Val Val Phe Asp Gln Thr Thr Gln Leu Leu Ala Glu Gly Ala Asp Thr
      115      120      125
Ala Val Phe Arg Thr Gly Asn Lys Leu Val Leu Gln Arg Val Val Gly
      130      135      140
Ile Asp Ala Val Gly Thr His Ala Asn Asn Arg Leu Glu Leu Leu Leu
145      150      155      160
Ser Val Leu Leu Asn Val Glu Leu Pro Leu Ala Ala Val Leu Leu Phe
      165      170      175

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Leu Val Gln Leu Ala His Gln Gly Val His Pro Ala Gly Asp Gly Leu
 180 185 190
 Leu Val Ala Gln Ile Gly Phe Gly Gln Gly Arg Leu Ile Asn Gln Leu
 195 200 205
 Phe Gln Gln Arg Phe Arg Ile Ala Thr Leu His Thr Ala Asn His Phe
 210 215 220
 Leu Arg Gly Val Glu Leu Gly Asn Gln Thr Leu Gln Arg Leu Thr Gly
 225 230 235 240
 Gln Arg Trp Arg Ala Gly Val Cys Val Gln Gly Arg Thr Ile Lys Gly
 245 250 255
 Asp Arg Asp Leu Val Leu Ile His Arg Val Val Ile Phe Asn Val Leu
 260 265 270
 Phe Leu Leu Ala Phe Phe His Leu Val Gln Arg Trp Leu Arg Asn Val
 275 280 285
 Asp Val Ala Ala Leu Asn Asp Phe Arg His Leu Thr Ile Glu Glu Gly
 290 295 300
 Gln Gln Gln Arg Thr Asp Val Arg Ala Val Asp Val Arg Ile Gly His
 305 310 315 320
 Asp Asp Asp Ala Val Ile Thr Gln Phe Val Arg Val Val Leu Val Ala
 325 330 335
 Thr Asn Ala Ala Ala Glu Arg Gly Asp Glu Arg Arg His Phe Leu Arg
 340 345 350
 Arg Glu His Leu Val Glu Ala Arg Phe Leu Asn Val Glu Asp Phe Thr
 355 360 365
 Leu Gln Arg Gln Asn Arg Leu Val Leu Ala Val Thr Ala Leu Leu Cys
 370 375 380
 Arg Thr Ala Arg Gly Val Pro Phe His Lys Val Gln Phe Arg Gln Arg
 385 390 395 400
 Arg Val Ala Phe Leu Thr Val Ser Gln Phe Ala Arg Gln Ala Cys Gln
 405 410 415
 Val Gln Arg Ala Phe Thr Thr Gly His Phe Thr Arg Phe Thr Arg Arg
 420 425 430
 Phe Thr Gly Thr Arg Arg Ile Asp Asn Phe Thr His His Asp Phe Arg
 435 440 445
 Val Gly Arg Val Phe Gln Gln Val Phe Ala Gln Gln Phe Val His Leu
 450 455 460
 Leu Phe Asn Arg Arg Phe His Leu Arg Arg Asp Gln Leu Val Phe Gly
 465 470 475 480
 Leu

<210> 9501

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 9501

Gly Glu Leu Arg Ile Arg His Leu His Gly Asp His Gly Asn Gln Ala
 1 5 10 15
 Phe Thr Gly Ile Val Thr Gly Gly Ala Asp Phe Arg Phe Thr Val
 20 25 30
 Ala Phe Phe Val His Val Ser Val Gln Gly Thr Gly His Arg Arg Ala
 35 40 45
 Glu Ala Arg Lys Val Arg Thr Ala Val Ala Leu Trp Asn Val Val Gly
 50 55 60
 Glu Ala Val Asn Val Phe Leu Glu Thr Val Val Pro Leu Gln Gly His
 65 70 75 80
 Phe His Ala Asp Thr Val Phe Phe Ser Arg Glu Val Glu Asp Ile Arg
 85 90 95
 Val Asn Trp Arg Phe Val Leu Val Gln Ile Leu Asn Glu Arg Leu Asp
 100 105 110

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Thr Thr Phe Val Met Glu Val Val Phe Phe Val Val Ala Phe Val Ala
115 120
Gln Thr Asn Arg His Ala Gly Val Gln Glu Arg Gln Phe Thr Gln Ala
130 135
Phe Arg Gln Asn Val Val Leu Glu Phe Gly Asp Val Gly Glu Gly Phe
145 150 155
Lys Ala Arg Pro Glu Thr His His Gly Thr Gly Phe Leu Gly Ile Thr
165 170 175
Arg Asp Gly Gln Arg Arg Phe Arg His Ala Val Leu Val Asp Leu Thr
180 185 190
Val Asn Phe Ala Phe Ala Leu Asp Asn Gln Leu Gln Leu Leu Arg Gln
195 200 205
Gly Val Tyr Tyr Gly Tyr Ala Tyr Ala Val Gln Thr Ala Gly Asn Phe
210 215 220
Ile Gly Val Ile Ile Glu Leu Thr Ala Cys Val Gln Asn Gly His Asp
225 230 235 240
His Phe Arg Ser Arg Tyr Ala Leu Phe Arg Val Asn Thr Gly Trp Asp
245 250 255
Ala Thr Ala Val Ile Gly Asn Gly His Gly Val Val Arg Met Asp Arg
260 265
Asp His Asp Val Phe Thr Val Thr Arg Glu Arg Phe Val Asp Ser Val
275 280 285
Ile Tyr His Leu Glu Tyr His Val Val Gln Thr Gly Ala Val Ile Arg
290 295 300
Val Ala Asp Ile His Thr Arg Ala Leu Thr His Arg Ile Gln Pro Phe
305 310 315 320
Gln Asp Phe Asp Thr Gly Gly Val Ile Arg Ile Arg His Gln Arg Phe
325 330 335
Ser Leu Ile Ser Thr Trp Val Asn Pro Leu Phe Tyr Pro Phe Pro Arg
340 345 350

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<210> 9502

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9502

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Ala Ser Phe Thr Arg Arg Ser Ser Gly Cys Arg Cys Val Gly Cys Val
1 5 10 15
Pro Ser Pro Gln Ser Arg Thr Tyr Val Arg Ser Trp Gly Phe Ala His
20 25 30
Leu Pro Pro Ser Cys Asn Pro Asn Tyr Leu Ala Tyr Pro Gly Gly Val
35 40 45
Leu Asn Glu Lys Pro Arg Pro Val Cys Ala Gly Gly Val Leu Asp Ser
50 55 60
Cys Val Asp Pro Val Pro Thr Ala His Cys Arg Arg Pro Pro Pro His
65 70 75 80
Ala Arg Arg Pro Leu Arg Gln Val Ala Gln Phe Leu Val Gly Ser Lys
85 90 95

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<210> 9503

<211> 410

<212> PRT

<213> Enterobacter cloacae

<400> 9503

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Ser Leu Ile Leu His Leu Ser Leu Leu Ala Lys Val Phe Ser Asp Met

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Asp Leu Gln Ile Leu Tyr Asp Gly Asp Val Tyr Arg Leu Gly Ala Cys
1 5 10 15
Thr Trp Arg His Ile Pro Ala Phe Phe His Tyr Leu Ser Ala Lys Arg

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<210> 9505
<211> 661
<212> PRT
<213> Enterobacter cloacae
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<400> 9505

His Leu Thr Arg Arg Lys Lys Ala Met Ser Gln Ile His Lys His Asp
 1 5 15
 Ile Pro Ala Asn Ile Ala Asp Arg Cys Leu Ile Ser Pro Glu Gln Tyr
 20 25 30
 Gln Glu Lys Tyr Gln Gln Ser Val Ser Ser Pro Asp Ala Phe Trp Gly
 35 40 45
 Glu Gln Gly His Ile Leu Asp Trp Ile Lys Pro Tyr Gln Lys Val Lys
 50 55 60
 Asn Thr Ser Phe Ala Pro Gly Asn Val Ser Ile Lys Trp Tyr Glu Asp
 65 70 75 80
 Gly Thr Leu Asn Leu Ala Ala Asn Cys Leu Asp Arg His Leu Ala Glu
 85 90 95
 Arg Gly Asn Glu Thr Ala Ile Ile Trp Glu Gly Asp Asp Ala Ser Gln
 100 105 110
 Ser Lys His Ile Ser Tyr Lys Glu Leu His Arg Asp Val Cys Arg Phe
 115 120 125
 Ala Asn Val Leu Leu Ala Gln Gly Ile Lys Lys Gly Asp Val Val Ala
 130 135 140
 Ile Tyr Met Pro Met Val Pro Glu Ala Ala Val Ala Met Leu Ala Cys
 145 150 155 160
 Ala Arg Ile Gly Ala Ile His Ser Val Ile Phe Gly Gly Phe Ser Pro
 165 170 175
 Glu Ala Val Ala Gly Arg Ile Val Asp Ser Asn Ser Lys Leu Val Ile
 180 185 190
 Thr Ala Asp Glu Gly Val Arg Ala Gly Arg Gly Ile Pro Leu Lys Lys
 195 200 205
 Asn Val Asp Glu Ala Leu Lys Asn Pro Asn Val Lys Ser Ile Ser Asn
 210 215 220
 Val Ile Val Phe Lys Arg Thr Gly Gly Lys Ile Asp Trp His Glu Gly
 225 230 235 240
 Arg Asp Leu Trp Trp Ser Asp Leu Ile Glu Lys Ala Ser Asp Gln His
 245 250 255
 Gln Pro Glu Glu Met Asn Ala Glu Asp Pro Leu Phe Ile Leu Tyr Thr
 260 265 270
 Ser Gly Ser Thr Gly Lys Pro Lys Gly Val Leu His Thr Thr Gly Gly
 275 280 285
 Tyr Leu Val Tyr Ala Ala Thr Thr Phe Lys Tyr Val Phe Asp Tyr His
 290 295 300
 Pro Gly Asp Ile Tyr Trp Cys Thr Ala Asp Val Gly Trp Val Thr Gly
 305 310 315 320
 His Ser Tyr Leu Leu Tyr Gly Pro Leu Ala Cys Gly Ala Thr Thr Leu
 325 330 335
 Met Phe Glu Gly Val Pro Asn Trp Pro Thr Pro Ala Arg Met Cys Gln
 340 345 350
 Val Val Asp Lys His Gln Val Asn Ile Leu Tyr Thr Ala Pro Thr Ala
 355 360 365
 Ile Arg Ala Leu Met Ala Glu Gly Asp Lys Ala Ile Glu Gly Thr Asp
 370 375 380
 Arg Ser Ser Leu Arg Ile Leu Gly Ser Val Gly Glu Pro Ile Asn Pro
 385 390 395 400
 Glu Ala Trp Glu Trp Tyr Trp Lys Lys Ile Gly Asn Glu Lys Cys Pro
 405 410 415
 Val Met Asp Thr Trp Trp Gln Thr Glu Thr Gly Gly Phe Met Ile Thr
 420 425 430
 Pro Met Pro Gly Ala Thr Gln Leu Lys Ala Gly Ser Ala Thr Arg Pro
 435 440 445
 Phe Phe Gly Val Gln Pro Ala Leu Val Asp Asn Glu Gly Asn Pro Gln
 450 455 460
 Glu Gly Ala Thr Glu Gly Asn Leu Val Ile Val Asp Ser Trp Pro Gly
 465 470 475 480

Gln Ala Arg Thr Leu Phe Gly Asp His Glu Arg Phe Glu Gln Thr Tyr
 485 490 495
 Phe Ser Thr Phe Lys Asn Met Tyr Phe Ser Gly Asp Gly Ala Arg Arg
 500 505 510
 Asp Glu Asp Gly Tyr Tyr Trp Ile Thr Gly Arg Val Asp Asp Val Leu
 515 520 525
 Asn Val Ser Gly His Arg Leu Gly Thr Ala Glu Ile Glu Ser Ala Leu
 530 535 540
 Val Ser His Pro Lys Ile Ala Glu Ala Ala Val Val Gly Ile Pro His
 545 550 555 560
 Asn Ile Lys Gly Gln Ala Ile Tyr Ala Tyr Val Thr Leu Asn His Gly
 565 570 575
 Glu Glu Pro Ser Pro Glu Leu Tyr Thr Glu Val Arg Asn Trp Val Arg
 580 585 590
 Lys Glu Ile Gly Pro Leu Ala Thr Pro Asp Val Leu His Trp Thr Asp
 595 600 605
 Ser Leu Pro Lys Thr Arg Ser Gly Lys Ile Met Arg Arg Ile Leu Arg
 610 615 620
 Lys Ile Ala Ala Gly Asp Thr Ser Asn Leu Gly Asp Thr Ser Thr Leu
 625 630 635 640
 Ala Asp Pro Gly Val Val Asp Lys Leu Leu Glu Glu Lys Gln Ala Ile
 645 650 655
 Ala Met Pro Ser
 660

<210> 9506

<211> 560

<212> PRT

<213> Enterobacter cloacae

<400> 9506

Gln Arg Ser Ser Ala Arg Gly Lys Ser Ile Met Lys Arg Ile Leu Thr
 1 5 10 15
 Ala Leu Ala Ala Thr Leu Pro Phe Ala Ala His Ala Ala Asp Ala Ile
 20 25 30
 Thr Gly Glu Val Gln Arg Gln Pro Thr Asn Trp Gln Ala Ile Ile Met
 35 40 45
 Phe Leu Ile Phe Val Val Leu Thr Leu Tyr Ile Thr Tyr Trp Ala Ser
 50 55 60
 Lys Gln Val Arg Ser Arg Asn Asp Tyr Tyr Thr Ala Gly Gly Asn Ile
 65 70 75 80
 Thr Gly Phe Gln Asn Gly Leu Ala Ile Ala Gly Asp Phe Met Ser Ala
 85 90 95
 Ala Ser Phe Leu Gly Ile Ser Ala Leu Val Tyr Thr Ser Gly Tyr Asp
 100 105 110
 Gly Leu Ile Tyr Ser Leu Gly Phe Leu Val Gly Trp Pro Ile Ile Leu
 115 120 125
 Phe Leu Ile Ala Glu Arg Leu Arg Asn Leu Gly Arg Tyr Thr Phe Ala
 130 135 140
 Asp Val Ala Ser Tyr Arg Leu Lys Gln Gly Pro Ile Arg Thr Leu Ser
 145 150 155 160
 Ala Cys Gly Ser Leu Val Val Val Ala Leu Tyr Leu Ile Ala Gln Met
 165 170 175
 Val Gly Ala Gly Lys Leu Ile Glu Leu Leu Phe Gly Leu Asn Tyr His
 180 185 190
 Ile Ala Val Val Leu Val Gly Val Leu Met Val Met Tyr Val Leu Phe
 195 200 205
 Gly Gly Met Leu Ala Thr Thr Trp Val Gln Ile Ile Lys Ala Val Leu
 210 215 220
 Leu Leu Phe Gly Ala Ser Phe Met Ala Phe Met Val Met Lys His Val
 225 230 235 240

Gly Phe Ser Phe Asn Asn Leu Phe Thr Glu Ala Met Ser Val His Pro
 245 250 255
 Lys Gly Glu Ala Ile Met Ser Pro Gly Gly Leu Val Lys Asp Pro Ile
 260 265 270
 Ser Ala Leu Ser Leu Gly Leu Gly Leu Met Phe Gly Thr Ala Gly Leu
 275 280 285
 Pro His Ile Leu Met Arg Phe Phe Thr Val Ser Asp Ala Arg Glu Ala
 290 295 300
 Arg Lys Ser Val Phe Tyr Ala Thr Gly Phe Met Gly Tyr Phe Tyr Ile
 305 310 315 320
 Leu Thr Phe Ile Ile Gly Phe Gly Ala Ile Met Leu Val Gly Ala Asn
 325 330 335
 Pro Ala Phe Lys Asp Ala Ala Gly Ala Leu Ile Gly Gly Asn Asn Met
 340 345 350
 Ala Ala Val His Leu Ala Asp Ala Val Gly Gly Asn Leu Phe Leu Gly
 355 360 365
 Phe Ile Ser Ala Val Ala Phe Ala Thr Ile Leu Ala Val Val Ala Gly
 370 375 380
 Leu Thr Leu Ala Gly Ala Ser Ala Val Ser His Asp Leu Tyr Ala Asn
 385 390 395 400
 Val Phe Arg Lys Gly Ala Ser Glu Arg Asp Glu Leu Lys Val Ser Lys
 405 410 415
 Ile Thr Val Leu Val Leu Gly Val Val Ala Ile Leu Leu Gly Ile Leu
 420 425 430
 Phe Glu Lys Gln Asn Ile Ala Phe Met Val Gly Leu Ala Phe Ser Ile
 435 440 445
 Ala Ala Ser Cys Asn Phe Pro Ile Ile Leu Leu Ser Met Tyr Trp Ser
 450 455 460
 Lys Leu Thr Thr Arg Gly Ala Met Ile Gly Gly Trp Leu Gly Leu Leu
 465 470 475 480
 Thr Ala Val Ile Leu Met Ile Leu Gly Pro Thr Ile Trp Val Gln Ile
 485 490 495
 Leu Gly His Glu Ser Ala Ile Phe Pro Tyr Glu Tyr Pro Ala Leu Phe
 500 505 510
 Ser Ile Ala Val Ala Phe Ile Gly Ile Trp Val Phe Ser Ala Thr Asp
 515 520 525
 Asn Ser Pro Glu Gly Asn Leu Glu Arg Glu Lys Phe Arg Ala Gln Phe
 530 535 540
 Ile Arg Ser Gln Thr Gly Leu Gly Val Glu Gln Gly Arg Ala His
 545 550 555 560

<210> 9507

<211> 401

<212> PRT

<213> Enterobacter cloacae

<400> 9507

Arg Met Ala Asp Met Lys Ile Lys Thr Gly Ala Arg Val Phe Ala Leu
 1 5 10 15
 Ser Ala Leu Ala Ala Met Met Ile Ser Ala Pro Ala Leu Ala Lys Ile
 20 25 30
 Glu Glu Gly Lys Leu Val Ile Trp Ile Asn Gly Asp Lys Gly Tyr Asn
 35 40 45
 Gly Leu Ala Glu Val Gly Lys Lys Phe Glu Lys Asp Thr Gly Ile Lys
 50 55 60
 Val Thr Val Glu His Pro Asp Lys Leu Glu Glu Lys Phe Pro Gln Val
 65 70 75 80
 Ala Ala Thr Gly Asp Gly Pro Asp Ile Ile Phe Trp Ala His Asp Arg
 85 90 95
 Phe Gly Gly Tyr Ala Gln Ser Gly Leu Leu Ala Glu Val Thr Pro Asp
 100 105 110

Lys Ala Phe Gln Asp Lys Leu Phe Pro Phe Thr Trp Asp Ala Val Arg
 115 120 125
 Tyr Asn Gly Lys Leu Ile Ala Tyr Pro Ile Ala Val Glu Ala Leu Ser
 130 135 140
 Leu Ile Tyr Asn Lys Asp Leu Val Pro Asn Pro Pro Lys Thr Trp Glu
 145 150 155 160
 Glu Ile Pro Ala Leu Asp Lys Glu Leu Lys Ala Lys Gly Lys Ser Ala
 165 170 175
 Leu Met Phe Asn Leu Gln Glu Pro Tyr Phe Thr Trp Pro Leu Ile Ala
 180 185 190
 Ala Asp Gly Tyr Ala Phe Lys Phe Glu Asn Gly Lys Tyr Asp Val
 195 200 205
 Lys Asp Val Gly Val Asp Ser Ala Gly Ala Lys Lys Gly Leu Thr Phe
 210 215 220
 Leu Val Asp Leu Ile Lys Asn Lys His Met Asn Ala Asp Thr Asp Tyr
 225 230 235 240
 Ser Ile Ala Glu Ala Ala Phe Asn Lys Gly Glu Thr Ala Met Thr Ile
 245 250 255
 Asn Gly Pro Trp Ala Trp Thr Asn Ile Asp Lys Ser Lys Ile Asn Tyr
 260 265 270
 Gly Val Thr Leu Leu Pro Thr Phe Asn Gly Lys Pro Ser Lys Pro Phe
 275 280 285
 Val Gly Val Leu Ser Ala Gly Ile Asn Ala Ala Ser Pro Asn Lys Glu
 290 295 300
 Leu Ala Lys Glu Phe Leu Glu Asn Tyr Leu Leu Thr Asp Gln Gly Leu
 305 310 315 320
 Asp Glu Val Asn Lys Asp Lys Pro Leu Gly Ala Val Ala Leu Lys Ser
 325 330 335
 Phe Gln Asp Gln Leu Ala Lys Asp Pro Arg Ile Ala Ala Thr Met Asp
 340 345 350
 Asn Ala Gln Lys Gly Glu Ile Met Pro Asn Ile Pro Gln Met Ala Ala
 355 360 365
 Phe Trp Tyr Ala Thr Arg Thr Ala Val Ile Asn Ala Ala Ser Gly Arg
 370 375 380
 Gln Thr Val Asp Ala Leu Lys Asp Ala Gln Gly Arg Ile Thr Lys
 385 390 395 400

<210> 9508

<211> 303

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (248)

<400> 9508

Leu Arg Arg Ala Leu Asn Met Ala Met Val Gln Pro Lys Ser Gln Lys
 1 5 10 15
 Leu Arg Leu Leu Ala Thr His Leu Gly Leu Leu Ile Phe Ile Ala Ala
 20 25 30
 Ile Met Phe Pro Leu Leu Met Val Ile Ala Ile Ser Leu Arg Ser Gly
 35 40 45
 Asn Phe Ala Thr Gly Ser Leu Ile Pro Asp Glu Ile Ser Trp Glu His
 50 55 60
 Trp Lys Leu Ala Leu Gly Phe Ser Val Glu His Ala Asp Gly Arg Val
 65 70 75 80
 Thr Pro Pro Pro Phe Pro Val Leu Leu Trp Leu Trp Asn Ser Val Lys
 85 90 95

Val Ala Thr Ile Thr Ala Ile Gly Ile Val Thr Leu Ser Thr Thr Cys
 100 105 110
 Ala Tyr Ala Phe Ala Arg Met Arg Phe Pro Gly Lys Ala Thr Leu Leu
 115 120 125
 Lys Val Met Leu Ile Phe Gln Met Phe Pro Ala Val Leu Ser Leu Val
 130 135 140
 Ala Leu Tyr Ala Val Phe Asp Arg Leu Gly Gln Tyr Val Pro Phe Ile
 145 150 155 160
 Gly Leu Asn Thr His Gly Gly Val Ile Phe Ala Tyr Leu Gly Gly Ile
 165 170 175
 Ala Leu His Val Trp Thr Ile Lys Gly Tyr Phe Glu Thr Ile Asp Gly
 180 185 190
 Ser Leu Glu Glu Ala Ala Ala Leu Asp Gly Ala Thr Pro Trp Gln Ala
 195 200 205
 Phe Arg Leu Val Leu Leu Pro Leu Ser Val Pro Ile Leu Ala Val Val
 210 215 220
 Phe Ile Leu Ser Phe Ile Ala Ala Ile Thr Glu Val Pro Val Ala Ser
 225 230 235 240
 Leu Leu Leu Arg Asp Val Asn Xaa Tyr Thr Leu Ala Val Gly Met Gln
 245 250 255
 Gln Tyr Leu Asn Pro Gln Asn Tyr Leu Trp Gly Asp Phe Ala Ala Ala
 260 265 270
 Ala Val Leu Ser Ala Ile Pro Ile Thr Val Val Phe Leu Leu Ala Gln
 275 280 285
 Arg Trp Leu Val Asn Gly Leu Thr Ala Gly Gly Val Lys Gly
 290 295 300

<210> 9509

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 9509

Ala Asp Leu Gln Pro Gly Cys Ser Pro Gln Ala Gly Cys Arg Arg Arg
 1 5 10 15
 Ala Thr Phe Ser Arg Cys Gly Asn Ala Ala Ser Arg Trp Trp Pro Asp
 20 25 30
 Pro Ala Ser Pro Ile Ser Ala Ala Arg Phe His Arg Lys Arg Ala Pro
 35 40 45
 Gln Thr Val Ala Asp His Arg Leu Ala Ala Cys Thr Gly Trp His Thr
 50 55 60
 Ala Cys Ser Glu Val Arg His Arg Ser Asp Ala Arg Pro Ala Cys Arg
 65 70 75 80
 Thr Cys Cys Pro Thr Val Ser Gly Pro Ala Leu Trp Trp
 85 90

<210> 9510

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 9510

Asn Lys Pro Thr Leu Leu Leu Glu Ile Ser Val Met Asn Asn Asp Ile
 1 5 10 15
 Cys Gln Gln Ile Glu Asn Ser Ala His Tyr Arg Glu Leu Val Glu Lys
 20 25 30
 Arg Gln Arg Phe Ala Phe Leu Leu Ser Ile Ile Met Leu Ile Ile Tyr
 35 40 45
 Val Gly Phe Ile Leu Leu Ile Ala Phe Ala Pro His Trp Leu Gly Thr
 50 55 60
 Pro Leu His Glu Gly Thr Ser Val Thr Arg Gly Ile Pro Ile Gly Ile

65 70 75 80
 Gly Val Ile Ile Ile Ser Phe Val Leu Thr Gly Val Tyr Val Trp Arg
 85 90 95
 Ala Asn Gly Glu Phe Asp Arg Leu Asn Arg Glu Val Leu Arg Glu Val
 100 105 110
 Lys Ala Ser
 115

<210> 9511

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 9511

Phe Arg Gly Ile Ile Met Asp Ile Arg Thr Leu Arg Tyr Phe Val Glu
 1 5 10 15
 Val Val Arg Gln Gln Ser Phe Thr Arg Ala Ala Glu Lys Leu Phe Val
 20 25 30
 Thr Gln Pro Thr Ile Ser Lys Met Leu Lys Asn Leu Glu Asp Glu Leu
 35 40 45
 Asn Cys Thr Leu Leu Ile Arg Asp Gly Arg Lys Leu Leu Leu Thr Asp
 50 55 60
 Thr Gly Arg Val Val Phe Glu Arg Gly Leu Ala Ile Leu Ala Glu Phe
 65 70 75 80
 Arg Gln Leu Glu Ala Glu Leu Gly Asp Ile Asn His Leu Thr Lys Gly
 85 90 95
 Leu Leu Arg Leu Gly Ile Pro Pro Met Val Gly Met Met Met Ala Gly
 100 105 110
 Pro Ile Ser Leu Phe Arg Gln Arg Tyr Pro Gly Val Glu Leu Lys Ile
 115 120 125
 Ser Glu Phe Gly Gly Leu Thr Val Gln Gln Ala Val Met Asn Gly Glu
 130 135 140
 Leu Asp Val Ala Met Thr Ala Leu Pro Val Glu Glu Glu Ser Gly Leu
 145 150 155 160
 Ala Thr Leu Pro Leu Phe Ser His Pro Leu Cys Val Leu Val Pro Arg
 165 170 175
 Ser Gly Asp Trp Leu Lys Ile Asp Ala Val Lys Pro Glu Leu Leu Gly
 180 185 190
 Glu His Pro Leu Leu Ile Tyr Asn Glu Asp Phe Ala Leu Ser Arg Gln
 195 200 205
 Leu Met Ala Leu Phe Asn Gln His Asn Val Lys Pro Arg Ile Ala Val
 210 215 220
 Arg Ser Gly Gln Trp Asp Phe Leu Ala Ala Met Val Gln Ala Gly Val
 225 230 235 240
 Gly Ile Ala Ile Leu Pro Gln Pro Ile Cys Glu Arg Leu Asp Lys Asn
 245 250 255
 Thr Leu Arg Trp Ile Pro Leu Glu Ser Asp Leu His Trp Gln Leu Gly
 260 265 270
 Met Ile Trp Arg Glu Gly Val Tyr Leu Ser His Ser Ala Gln Ala Trp
 275 280 285
 Leu Gln Cys Cys Glu Gly Phe Trp Val Pro
 290 295

<210> 9512

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 9512

Lys Val Gly Leu Phe Glu Arg Tyr Leu Gln Arg Met Phe Arg Thr Val
 1 5 10 15

Met His Gln Thr Leu Gly Asp Tyr Ile Arg Gln Arg Arg Leu Leu Leu
 20 25 30
 Ala Ala Gln Ala Leu Arg Ser Thr Gln Arg Pro Ile Phe Asp Ile Ala
 35 40 45
 Met Asp Leu Gly Tyr Val Ser Gln Gln Thr Phe Ser Arg Val Phe Arg
 50 55 60
 Arg Glu Phe Asp Arg Thr Pro Ser Asp Tyr Arg His Gln Leu Asn
 65 70 75 80

<210> 9513

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 9513

Arg Glu Thr Leu Phe His Ser Ser Ser Ser Val Leu Ser Arg Met Ser
 1 5 10 15
 Phe Met Ala Thr Ile Thr Thr Ser Met Val Leu Leu Arg Trp Pro Leu
 20 25 30
 Leu Ser Ala Val Leu Met Phe Leu Ala Ser Thr Leu Asn Ile Gln Phe
 35 40 45
 Arg Lys Ser Asp Tyr Ala Gly Leu Ala Val Ile Ser Thr Leu Leu Gly
 50 55 60
 Leu Gly Ala Ala Cys Trp Phe Ala Thr Gly Leu Leu Gly Ile Thr Leu
 65 70 75 80
 Val Asp Ile Ala Ala Val Trp Glu Asn Ile Lys Val Val Met Val Glu
 85 90 95
 Ala Met Ser His Thr Pro Pro Asp Trp Pro Met Val Ile Thr
 100 105 110

<210> 9514

<211> 941

<212> PRT

<213> Enterobacter cloacae

<400> 9514

Met Asp Lys Ile Glu Val Arg Gly Ala Arg Thr His Asn Leu Lys Asn
 1 5 10 15
 Ile Asn Leu Ile Ile Pro Arg Asp Lys Leu Ile Val Val Thr Gly Leu
 20 25 30
 Ser Gly Ser Gly Lys Ser Ser Leu Ala Phe Asp Thr Leu Tyr Ala Glu
 35 40 45
 Gly Gln Arg Arg Tyr Val Glu Ser Leu Ser Ala Tyr Ala Arg Gln Phe
 50 55 60
 Leu Ser Leu Met Glu Lys Pro Asp Val Asp His Ile Glu Gly Leu Ser
 65 70 75 80
 Pro Ala Ile Ser Ile Glu Gln Lys Ser Thr Ser His Asn Pro Arg Ser
 85 90 95
 Thr Val Gly Thr Ile Thr Glu Ile His Asp Tyr Leu Arg Leu Leu Tyr
 100 105 110
 Ala Arg Val Gly Glu Pro Arg Cys Pro Asp His Asp Val Pro Leu Ala
 115 120 125
 Ala Gln Thr Val Ser Gln Met Val Asp Asn Val Leu Ser Gln Pro Glu
 130 135 140
 Gly Lys Arg Leu Met Leu Leu Ala Pro Ile Ile Lys Glu Arg Lys Gly
 145 150 155 160
 Glu His Thr Lys Thr Leu Glu Asn Leu Ala Ser Gln Gly Tyr Ile Arg
 165 170 175
 Ala Arg Ile Asp Gly Glu Val Cys Asp Leu Ser Asp Pro Lys Leu
 180 185 190
 Glu Leu Gln Lys Lys His Thr Ile Glu Val Val Ile Asp Arg Phe Lys

195	200	205
Val Arg Glu Asp Leu Ala Thr	Arg Leu Ala Glu Ser	Phe Glu Thr Ala
210	215	220
Leu Glu Leu Ser Gly Gly Thr	Ala Val Val Ser Asp	Met Asp Asp Ala
225	230	235
Lys Ala Glu Glu Leu Leu Phe	Ser Ala Asn Phe Ala Cys	Pro Ile Cys
245	250	255
Gly Tyr Ser Met Arg Glu Leu	Glu Pro Arg Leu Phe Ser	Phe Asn Asn
260	265	270
Pro Ala Gly Ala Cys Pro Thr	Cys Asp Gly Leu Gly Val	Gln Gln Tyr
275	280	285
Phe Asp Pro Asp Arg Val Ile	Gln Asn Pro Glu Leu Ser	Leu Ala Gly
290	295	300
Gly Ala Ile Arg Gly Trp Asp	Lys Arg Asn Phe Tyr Tyr	Phe Gln Met
305	310	315
Leu Lys Ser Leu Ala Glu His	Tyr Lys Phe Asp Val Glu	Ala Pro Trp
325	330	335
Ala Ser Leu Ser Ala Asn Val	His Lys Val Ile Leu Phe	Gly Ser Gly
340	345	350
Lys Glu Asn Ile Glu Phe Lys	Tyr Met Asn Asp Arg Gly	Asp Thr Ser
355	360	365
Val Arg Arg His Pro Phe Glu	Gly Val Leu His Asn Met	Glu Arg Arg
370	375	380
Tyr Lys Glu Thr Glu Ser Ser	Ala Val Arg Glu Glu Leu	Ala Lys Phe
385	390	395
Ile Ser Asn Arg Ser Cys Ala	Thr Cys Glu Gly Thr Arg	Leu Arg Arg
405	410	415
Glu Ala Arg His Val Phe Val	Glu Asn Thr Ala Leu Pro	Thr Ile Ser
420	425	430
Asp Met Ser Ile Gly His Ala	Met Asp Phe Phe Asn Asn	Leu Lys Leu
435	440	445
Ser Gly Gln Arg Ala Lys Ile	Ala Glu Lys Val Leu Lys	Glu Ile Gly
450	455	460
Asp Arg Leu Lys Phe Leu Val	Asn Asn Val Gly Leu Asn	Tyr Leu Thr Leu
465	470	475
Ser Arg Ser Ala Glu Thr Leu	Ser Gly Gly Glu Ala Gln	Arg Ile Arg
485	490	495
Leu Ala Ser Gln Ile Gly Ala	Gly Leu Val Gly Val Met	Tyr Val Leu
500	505	510
Asp Glu Pro Ser Ile Gly Leu	His Gln Arg Asp Asn Glu	Arg Leu Leu
515	520	525
Gly Thr Leu Val His Leu Arg	Asn Leu Gly Asn Thr Val	Ile Val Val
530	535	540
Glu His Asp Glu Asp Ala Ile	Arg Ala Ala Asp His Val	Ile Asp Ile
545	550	555
Gly Pro Gly Ala Gly Val His	Gly Gly Gln Val Val Ala	Glu Gly Thr
565	570	575
Leu Lys Asp Ile Met Ala Val	Pro Glu Ser Leu Thr Gly	Gln Tyr Met
580	585	590
Ser Gly Lys Arg Lys Ile Glu	Val Pro Lys Gln Arg Val	Ala Ala Asn
595	600	605
Pro Glu Lys Val Leu Lys Leu	Thr Gly Ala Arg Gly Asn	Asn Leu Lys
610	615	620
Asp Val Thr Leu Thr Leu Pro	Val Gly Leu Phe Thr Cys	Ile Thr Gly
625	630	635
Val Ser Gly Ser Gly Lys Ser	Thr Leu Ile Asn Asp Thr	Leu Phe Pro
645	650	655
Ile Ala Gln Thr Ala Leu Asn	Gly Ala Thr Leu Ala Glu	Pro Ala Pro
660	665	670
Tyr Arg Asp Ile Gln Gly Leu	Glu His Phe Asp Lys Val	Ile Asp Ile
675	680	685

Asp Gln Ser Pro Ile Gly Arg Thr Pro Arg Ser Asn Pro Ala Thr Tyr
 690 695 700
 Thr Gly Val Phe Thr Pro Val Arg Glu Leu Phe Ala Gly Val Pro Glu
 705 710 715 720
 Ala Arg Ser Arg Gly Tyr Thr Pro Gly Arg Phe Ser Phe Asn Val Arg
 725 730 735
 Gly Gly Arg Cys Glu Ala Cys Gln Gly Asp Gly Val Ile Lys Val Glu
 740 745 750
 Met His Phe Leu Pro Asp Ile Tyr Val Pro Cys Asp Gln Cys Lys Gly
 755 760 765
 Lys Arg Tyr Asn Arg Glu Thr Leu Glu Ile Lys Tyr Lys Gly Lys Thr
 770 775 780
 Ile His Glu Val Leu Asp Met Thr Ile Glu Glu Ala Arg Glu Phe Phe
 785 790 795 800
 Asp Ala Val Pro Ala Leu Ala Arg Lys Leu Gln Thr Leu Met Asp Val
 805 810 815
 Gly Leu Thr Tyr Ile Arg Leu Gly Gln Ser Ala Thr Thr Leu Ser Gly
 820 825 830
 Gly Glu Ala Gln Arg Val Lys Leu Ala Arg Glu Leu Ser Lys Arg Gly
 835 840 845
 Thr Gly Gln Thr Leu Tyr Ile Leu Asp Glu Pro Thr Thr Gly Leu His
 850 855 860
 Phe Ala Asp Ile Gln Gln Leu Leu Asp Val Leu His Gln Leu Arg Asp
 865 870 875 880
 Gln Gly Asn Thr Ile Val Val Ile Glu His Asn Leu Asp Val Ile Lys
 885 890 895
 Thr Ala Asp Trp Ile Val Asp Leu Gly Pro Glu Gly Gly Ser Gly Gly
 900 905 910
 Gly Glu Ile Leu Val Ser Gly Thr Pro Glu Thr Val Ala Glu Cys Glu
 915 920 925
 Ala Ser His Thr Ala Arg Phe Leu Lys Pro Leu Leu
 930 935 940

<210> 9515

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 9515

Arg Phe Arg Asp Gly Phe Gly Phe Gly Leu Ala Thr Ser Gly His Glu
 1 5 10 15
 Val Asn Ala Val Ala Ala Leu Tyr Val His Gly Asp Gln Arg Ala Gly
 20 25 30
 Asn Leu Phe Arg Asp Thr Glu Leu Ile Pro Ala Val Val His Leu Phe
 35 40 45
 Pro Glu Phe Arg Val Phe Gln Ile Gly Phe Ala Val Arg Gly Val Arg
 50 55 60
 Phe Phe Ala Ala Pro Glu Thr Gly Ala Gly Glu Glu Asn Gly Ile Val
 65 70 75 80
 Asn Ile Glu Ala His Gly His Arg Arg Ala Thr Arg Gln Ala Val Phe
 85 90 95
 Asn Leu Cys His
 100

<210> 9516

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 9516

Pro Gly Asp Leu Ile Ile Thr Leu Thr Arg Phe Ser Leu Phe Val Glu

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>400> 9517
Arg Val Thr Thr Glu Ile Leu Arg Ala Phe Cys Tyr Pro Cys Ala Ala
1 5 10 15
Arg Val Thr Thr Arg Gly Phe Thr Ser Phe Met Ser Gly Trp Pro
20 25 30
Arg Ile Tyr Tyr Lys Leu Leu Asn Ser Pro Leu Ser Val Leu Val Lys
35 40 45
Ser Lys Ser Ile Pro Ala Glu Pro Ala Leu Glu Leu Glu Leu Asp Thr

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50				55				60							
Ser	Arg	Pro	Ile	Met	Tyr	Val	Leu	Pro	Tyr	Asn	Ser	Lys	Ala	Asp	Leu
65					70					75				80	
Leu	Thr	Leu	Arg	Ala	Gln	Cys	Leu	Ala	His	Asp	Leu	Pro	Asp	Pro	Leu
				85				90				95			
Glu	Pro	Leu	Glu	Val	Asp	Gly	Thr	Leu	Leu	Pro	Arg	Tyr	Val	Phe	Ile
				100				105				110			
His	Gly	Gly	Pro	Arg	Val	Phe	Thr	Tyr	Tyr	Thr	Pro	Lys	Glu	Glu	Ser
				115				120				125			
Ile	Lys	Leu	Phe	His	Asp	Tyr	Leu	Asp	Leu	His	Arg	Ser	Asn	Pro	Asp
				130				135				140			
Leu	Asp	Val	Gln	Met	Val	Pro	Val	Ser	Val	Met	Phe	Gly	Arg	Arg	Pro
				145				150				155			
Gly	Arg	Glu	Lys	Gly	Glu	Glu	Asn	Pro	Pro	Leu	Arg	Met	Leu	Asn	Gly
				165				170				175			
Ile	Gln	Lys	Phe	Phe	Ala	Val	Ser	Trp	Leu	Gly	Arg	Asp	Ser	Phe	Val
				180				185				190			
Arg	Phe	Ser	Pro	Ser	Val	Ser	Leu	Arg	Arg	Met	Ala	Asp	Glu	His	Gly
				195				200				205			
Thr	Asp	Lys	Ile	Ile	Ala	Gln	Lys	Leu	Ala	Arg	Val	Ala	Arg	Met	His
				210				215				220			
Phe	Ala	Arg	Gln	Arg	Leu	Ala	Ala	Val	Gly	Pro	Arg	Leu	Pro	Ala	Arg
				225				230				235			
Gln	Asp	Leu	Phe	Asn	Lys	Leu	Leu	Ala	Ser	Lys	Ala	Ile	Ala	Arg	Ala
				245				250				255			
Val	Glu	Asp	Glu	Ala	Arg	Ser	Lys	Lys	Ile	Ser	His	Glu	Lys	Ala	Gln
				260				265				270			
Gln	Asn	Ala	Ile	Ala	Leu	Met	Glu	Glu	Ile	Ala	Ala	Asn	Phe	Ser	Tyr
				275				280				285			
Glu	Met	Ile	Arg	Leu	Ser	Asp	Arg	Ile	Leu	Gly	Phe	Thr	Trp	Asn	Arg
				290				295				300			
Leu	Tyr	Gln	Gly	Ile	Asn	Val	His	Asn	Ala	Glu	Arg	Val	Arg	Gln	Leu
				305				310				315			
Ala	His	Asp	Gly	His	Glu	Ile	Val	Tyr	Val	Pro	Cys	His	Arg	Ser	His
				325				330				335			
Met	Asp	Tyr	Leu	Leu	Ser	Tyr	Val	Leu	Tyr	His	Gln	Gly	Leu	Val	
				340				345				350			
Pro	Pro	His	Ile	Ala	Ala	Gly	Ile	Asn	Leu	Asn	Phe	Trp	Pro	Ala	Gly
				355				360				365			
Pro	Ile	Phe	Arg	Arg	Leu	Gly	Ala	Phe	Phe	Ile	Arg	Arg	Thr	Phe	Lys
				370				375				380			
Gly	Asn	Lys	Leu	Tyr	Ser	Thr	Val	Phe	Arg	Glu	Tyr	Leu	Gly	Glu	Leu
				385				390				395			
Phe	Ser	Arg	Gly	Tyr	Ser	Val	Glu	Tyr	Phe	Val	Glu	Gly	Gly	Arg	Ser
				405				410				415			
Arg	Thr	Gly	Arg	Leu	Leu	Asp	Pro	Lys	Thr	Gly	Thr	Leu	Ser	Met	Thr
				420				425				430			
Ile	Gln	Ala	Met	Leu	Arg	Gly	Gly	Thr	Arg	Pro	Ile	Thr	Leu	Val	Pro
				435				440				445			
Ile	Tyr	Ile	Gly	Tyr	Glu	His	Val	Met	Glu	Val	Gly	Thr	Tyr	Ala	Lys
				450				455				460			
Glu	Leu	Arg	Gly	Ala	Thr	Lys	Glu	Lys	Glu	Ser	Leu	Pro	Gln	Met	Leu
				465				470				475			
Arg	Gly	Leu	Ser	Lys	Leu	Arg	Asn	Leu	Gly	Gln	Gly	Tyr	Val	Asn	Phe
				485				490				495			
Gly	Glu	Pro	Leu	Pro	Leu	Met	Thr	Tyr	Leu	Asn	His	His	Val	Pro	Glu
				500				505				510			
Trp	Arg	Glu	Ser	Ile	Asp	Pro	Ile	Glu	Ala	Val	Arg	Pro	Ala	Trp	Leu
				515				520				525			
Thr	Pro	Thr	Val	Asn	Gly	Ile	Ala	Ser	Glu	Leu	Met	Val	Arg	Ile	Asn
				530				535				540			

Asn Ala Gly Ala Ala Asn Ala Met Asn Leu Cys Cys Thr Ala Leu Leu
 545 550 555 560
 Ala Ser Arg Gln Arg Ser Leu Thr Arg Glu Gln Leu Thr Glu Gln Ile
 565 570 575
 Asp Cys Tyr Leu Asp Ile Met Arg Asn Val Pro Tyr Ser Val Asp Ser
 580 585 590
 Thr Val Pro Ser Ala Thr Ala Ser Glu Leu Ile Asp His Ala Leu Gln
 595 600 605
 Met Asn Lys Phe Glu Val Glu Lys Asp Thr Ile Gly Asp Ile Ile Ile
 610 615 620
 Leu Pro Arg Glu Gln Ala Val Leu Met Thr Tyr Tyr Arg Asn Asn Ile
 625 630 635 640
 Thr His Met Leu Met Leu Pro Ser Leu Met Ala Ala Ile Ile Thr Gln
 645 650 655
 His Arg Arg Ile Ser Arg Gln Glu Leu Leu Arg His Ile Gln Ala Ile
 660 665 670
 Tyr Pro Met Leu Lys Ala Glu Leu Phe Leu Arg Trp Ser Lys Asp Glu
 675 680 685
 Leu Ala Ala Glu Leu Asp Lys Met Thr Ala Glu Met His Arg Gln Gly
 690 695 700
 Leu Ile Thr Ile Ser Asp Asp Glu Leu His Ile Asn Pro Ser Arg Ser
 705 710 715 720
 Arg Thr Leu Gln Leu Leu Ala Ser Gly Ala Arg Glu Thr Leu Gln Arg
 725 730 735
 Tyr Ala Ile Thr Phe Trp Leu Leu Ser Ala Asn Pro Ser Ile Asn Arg
 740 745 750
 Gly Thr Leu Glu Lys Glu Ser Arg Thr Leu Ala Gln Arg Leu Ser Val
 755 760 765
 Leu His Gly Ile Asn Ala Pro Glu Phe Phe Asp Lys Ala Val Phe Ser
 770 775 780
 Ser Leu Val Leu Thr Leu Arg Asp Glu Gly Tyr Ile Ser Asp Thr Gly
 785 790 795 800
 Asp Ala Glu Pro Glu Glu Thr Met Lys Val Tyr Gln Met Leu Ala Glu
 805 810 815
 Leu Ile Thr Ala Asp Val Arg Leu Thr Ile Glu Ser Ser Thr Gln Gly
 820 825 830
 Glu

<210> 9518

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 9518

Arg Lys Asn Pro Met Asp Val Ile Lys Lys Lys His Trp Trp Gln Ser
 1 5 10 15
 Asp Ala Leu Lys Trp Ser Val Ile Gly Leu Leu Cys Leu Leu Val Gly
 20 25 30
 Tyr Leu Val Val Leu Met Tyr Val Gln Gly Glu Tyr Leu Phe Ala Ile
 35 40 45
 Met Thr Leu Ile Leu Ser Ser Val Gly Leu Tyr Ile Phe Ala Asn Arg
 50 55 60
 Lys Ala Tyr Ala Trp Arg Tyr Val Tyr Pro Gly Val Ala Gly Met Gly
 65 70 75 80
 Leu Phe Val Leu Phe Pro Leu Ile Cys Thr Ile Ala Ile Ala Phe Thr
 85 90 95
 Asn Tyr Ser Ser Thr Asn Gln Leu Ala Gln Glu Arg Ala Thr Gln Val
 100 105 110
 Leu Leu Asp Arg Ser Tyr Gln Ala Gly Lys Thr Phe Asn Phe Gly Leu
 115 120 125

Tyr Pro Ala Gly Asp Glu Trp Lys Leu Ala Leu Thr Asp Gly Glu Ser
 130 135 140
 Gly Lys Thr Tyr Leu Ser Asp Ala Phe Lys Phe Gly Gly Glu Gln Lys
 145 150 155 160
 Leu Thr Leu Lys Glu Ala Ala Ala Leu Pro Glu Gly Glu Arg Ala Asn
 165 170 175
 Leu Arg Ile Ile Thr Gln Asn Arg Gln Ala Leu Thr Gln Leu Thr Ala
 180 185 190
 Val Leu Pro Asp Glu Ser Lys Val Ile Met Ser Ser Leu Arg Gln Phe
 195 200 205
 Ser Gly Thr Gln Pro Leu Tyr Tnr Leu Ala Asp Asp Gly Thr Leu Thr
 210 215 220
 Asn Asn Gln Ser Gly Val Lys Tyr Arg Pro Asn Asn Asp Ile Gly Phe
 225 230 235 240
 Tyr Gln Ser Val Asn Ala Asp Gly Ser Trp Gly Asp Asp Lys Leu Ser
 245 250 255
 Pro Gly Tyr Thr Val Thr Ile Gly Trp Asp Asn Phe Thr Arg Val Phe
 260 265 270
 Thr Asp Glu Gly Ile Gln Lys Pro Phe Phe Ala Ile Phe Val Trp Thr
 275 280 285
 Val Val Phe Ser Val Leu Thr Val Ile Leu Thr Val Ala Val Gly Met
 290 295 300
 Val Leu Ala Cys Leu Val Gln Trp Glu Ser Leu Lys Gly Lys Ala Ile
 305 310 315 320
 Tyr Arg Val Leu Leu Ile Leu Pro Tyr Ala Val Pro Ser Phe Ile Ser
 325 330 335
 Ile Leu Ile Phe Lys Gly Leu Phe Asn Gln Ser Phe Gly Glu Ile Asn
 340 345 350
 Met Met Leu Ser Ala Leu Phe Gly Ile Lys Pro Ala Trp Phe Ser Asp
 355 360 365
 Pro Thr Thr Ala Arg Ser Met Ile Ile Ile Val Asn Thr Trp Leu Gly
 370 375 380
 Tyr Pro Tyr Met Met Ile Leu Cys Met Gly Leu Leu Lys Ala Ile Pro
 385 390 395 400
 Asp Asp Leu Tyr Glu Ala Ser Ala Met Asp Gly Ala Gly Pro Phe Gln
 405 410 415
 Asn Phe Phe Lys Ile Thr Leu Pro Leu Leu Ile Lys Pro Leu Thr Pro
 420 425 430
 Leu Met Ile Ala Ser Phe Ala Phe Asn Phe Asn Asn Phe Val Leu Ile
 435 440 445
 Gln Leu Leu Thr Asn Gly Gly Pro Asp Arg Leu Gly Thr Thr Thr Pro
 450 455 460
 Ala Gly Tyr Thr Asp Leu Leu Val Ser Tyr Thr Tyr Arg Ile Ala Phe
 465 470 475 480
 Glu Gly Gly Gly Gly Gln Asp Phe Gly Leu Ala Ala Ala Ile Ala Thr
 485 490 495
 Leu Ile Phe Leu Leu Val Gly Ala Leu Ala Ile Val Asn Leu Lys Ala
 500 505 510
 Thr Arg Met Lys Phe Asp
 515

<210> 9519

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 9519

Gly Ala Ala Ala Thr Gly Gln Asp Phe Leu Arg Pro Asp Ala Leu Thr
 1 5 10 15
 Pro Ala Leu Ser His Arg Glu Arg Glu Ile Ile Ser Ser Glu Tyr Leu
 20 25 30

His His Ser Cys Lys Arg Leu Arg His Ala Leu Asp Val Ala Gly Ile
 35 40 45
 Gln Thr Arg His Ala His Thr Ala Ala Gly Asp Gln Val Asp Thr Glu
 50 55 60
 Leu Phe Thr Gln Ala Ile Asp Leu Arg Cys Ala Gln Ser Gly Val Ala
 65 70 75 80
 Glu His Pro Ala Leu Leu Glu Lys Ile Ile Lys Val Met Pro Arg His
 85 90 95
 Gly Leu Phe Gln Asp Val Asn Gln Leu Leu Thr His Arg Gln Asp Ala
 100 105 110
 Leu Thr His Arg Phe His Phe Arg Lys Pro Gly Gly Phe Gln Ser Phe
 115 120 125
 Val Thr Glu Asn Cys Arg His His Leu Arg Thr Lys Val Arg Arg Ala
 130 135 140
 Gly Val Asp Thr Ala Asp Arg Arg Phe Gln Leu Ala Glu Tyr Ala Ser
 145 150 155 160
 Arg Gly Phe Gly Val Phe Thr His His Gly Gln Thr Ala Asn Ala Leu
 165 170 175
 Ala Val Gln Gly Glu Asp Phe
 180

<210> 9520

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 9520

Glu Gly Val Ala Asp Gln Ser Gly Lys Pro Arg Ala Gly Asn Arg Ala
 1 5 10 15
 Asn Gly Val Gly Val Phe Phe His Ala Arg Ala Lys Ala Leu Ile Gly
 20 25 30
 Asp Val Glu Glu Arg Asp Gln Val Thr Arg Leu Gln Tyr Leu Asp His
 35 40 45
 Arg Ile Pro Leu Gly Ile Gly Glu Val Arg Thr Arg Arg Val Met Ala
 50 55 60
 Ala Arg Met Gln Gln Tyr Asp Ala Ala Leu Arg Gln Gly Val Gln Phe
 65 70 75 80
 Phe Gln Gln Arg Ile Asn Ala His Ala Val Arg Phe Ala Val Glu Pro
 85 90 95
 Arg Ile Ser Phe Asn Leu Lys Ala Arg Ala Leu Glu Asp Arg Asn Val
 100 105 110
 Val Phe Pro Arg Arg Val Ala Asp Pro His Ala Gly Ile Arg Glu Val
 115 120 125
 Leu Phe Gln Glu Ile Cys Ala Tyr Leu Gln Arg Thr Arg Ala Thr Gln
 130 135 140
 Arg Leu Asp Ser Arg Tyr Ala Leu Leu Arg Glu His Arg Val Val Arg
 145 150 155 160
 Thr Lys Gln Gln Arg Arg Asp Ser Val Ala Val Gly Val
 165 170

<210> 9521

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 9521

Ser Glu Ser Phe His Pro Leu Pro His Pro Arg Cys Pro Met Asp Lys
 1 5 10 15
 Ser Thr Lys Glu Leu Leu Ala Gln Ala Glu Lys Leu Cys Ala Gln Arg
 20 25 30
 Asn Val Arg Leu Thr Pro Gln Arg Leu Glu Val Leu Arg Leu Met Ser

35 40 45
 Leu Gln Gln Gly Ala Ile Ser Ala Tyr Asp Leu Leu Asp Leu Leu Arg
 50 55 60
 Glu Ser Glu Pro Gln Ala Lys Pro Pro Thr Val Tyr Arg Ala Leu Asp
 65 70 75 80
 Phe Leu Leu Glu Gln Gly Phe Val His Lys Val Glu Ser Thr Asn Ser
 85 90 95
 Tyr Val Leu Cys His Leu Phe Asp Gln Pro Thr His Thr Ser Ala Met
 100 105 110
 Phe Ile Cys Asp Arg Cys Gly Val Val Lys Glu Glu Cys Ala Glu Gly
 115 120 125
 Val Glu Asp Ile Met His Thr Leu Ala Ala Arg Met Gly Phe Ala Leu
 130 135 140
 Arg His Asn Val Ile Glu Ala His Gly Leu Cys Ser Ala Cys Val Glu
 145 150 155 160
 Val Glu Ser Cys Arg His Gln Asp Asp Cys Gln His Asp His Ser Ile
 165 170 175
 Leu Val Lys Lys Lys Pro Arg
 180

<210> 9522

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 9522

Ser Gly Ser Gly Thr Thr Thr Ser Ser Ala Leu Lys Pro Lys Arg Phe
 1 5 10 15
 Cys Arg Thr Thr Ser Thr Cys Thr Ala Leu Arg Pro Thr Ser Ser Arg
 20 25 30
 Ala Thr Trp Asn Pro Thr Ala Ser Thr Leu Thr Val Thr Ala Thr Arg
 35 40 45
 Trp Ile Thr Arg Leu Ala Gln Ser Ser Gly Ala Ser Arg Ala Pro Thr
 50 55 60
 Val Ser Thr Arg Ser Thr Ser
 65 70

<210> 9523

<211> 713

<212> PRT

<213> Enterobacter cloacae

<400> 9523

Cys Arg Tyr Pro Ser Leu Pro Asp Thr Ala Asp Thr Gly Ile Met Lys
 1 5 10 15
 Lys Thr Tyr Leu Tyr Ser Met Leu Ala Leu Cys Val Ser Ala Ala Cys
 20 25 30
 His Ala Glu Thr Tyr Pro Ala Pro Ile Gly Pro Ser Gln Ser Asp Phe
 35 40 45
 Gly Gly Val Gly Leu Leu Gln Thr Pro Thr Ala Arg Met Ala Arg Glu
 50 55 60
 Gly Glu Ile Ser Leu Asn Tyr Arg Asp Asn Asp Gln Tyr Arg Tyr Tyr
 65 70 75 80
 Ser Ala Ser Val Gln Leu Phe Pro Trp Leu Glu Thr Thr Leu Arg Tyr
 85 90 95
 Thr Asp Val Arg Thr Lys Gln Tyr Ser Ser Val Asp Ala Phe Ser Gly
 100 105 110
 Asp Gln Thr Tyr Lys Asp Lys Ala Phe Asp Val Lys Leu Arg Leu Trp
 115 120 125
 Glu Glu Ser Tyr Trp Met Pro Gln Val Ser Val Gly Ala Lys Asp Ile
 130 135 140

Gly Gly Thr Gly Leu Phe Asp Ala Glu Tyr Ile Val Ala Ser Lys Ala
 145 150 155 160
 Trp Gly Pro Phe Asp Phe Ser Leu Gly Leu Gly Trp Gly Tyr Leu Gly
 165 170 175
 Thr Ser Gly Asn Val Lys Asn Pro Phe Cys Ser Tyr Ser Asp Lys Tyr
 180 185 190
 Cys Tyr Arg Asp Asn Ser Tyr Gln Lys Ala Gly Ser Ile Asn Gly Asp
 195 200 205
 Gln Met Phe His Gly Pro Ala Ser Leu Phe Gly Gly Val Glu Tyr Gln
 210 215 220
 Thr Pro Trp Gln Pro Leu Arg Leu Lys Leu Glu Tyr Glu Gly Asn Asn
 225 230 235 240
 Tyr Ser Glu Asp Phe Ala Gly Lys Ile Glu Gln Lys Ser Lys Phe Asn
 245 250 255
 Val Gly Ala Ile Tyr Arg Val Thr Asp Trp Ala Asp Val Asn Leu Ser
 260 265 270
 Tyr Glu Arg Gly Asn Thr Leu Met Phe Gly Phe Thr Leu Arg Thr Asn
 275 280 285
 Phe Asn Asp Met Arg Pro His Tyr Asn Asp Asn Pro Arg Pro Lys Tyr
 290 295 300
 Gln Pro Glu Pro Gln Asp Ala Ile Ile Gln His Ser Val Val Ala Asn
 305 310 315 320
 Gln Leu Thr Leu Leu Lys Tyr Asn Ala Gly Leu Ala Asp Pro Lys Ile
 325 330 335
 Gln Thr Lys Gly Asp Thr Leu Tyr Val Thr Gly Glu Gln Val Lys Tyr
 340 345 350
 Arg Asp Ser Arg Glu Gly Ile Glu Arg Ala Asn Arg Ile Val Met Asn
 355 360 365
 Asp Leu Pro Glu Gly Ile Arg Thr Ile Arg Val Thr Glu Asn Arg Leu
 370 375 380
 Asn Leu Pro Gln Val Thr Thr Glu Thr Asp Val Ala Ser Leu Lys Arg
 385 390 395 400
 His Leu Glu Gly Glu Pro Leu Gly His Glu Thr Glu Leu Val Gln Lys
 405 410 415
 Arg Val Glu Pro Val Val Pro Glu Thr Thr Glu Gln Gly Trp Tyr Ile
 420 425 430
 Asp Lys Ser Arg Phe Asp Phe His Ile Asp Pro Val Leu Asn Gln Ser
 435 440 445
 Val Gly Gly Pro Glu Asn Phe Tyr Met Tyr Gln Leu Gly Ala Met Ala
 450 455 460
 Thr Ala Asp Leu Trp Val Thr Asp His Leu Leu Thr Thr Gly Ser Leu
 465 470 475 480
 Phe Gly Asn Ile Thr Asn Asn Tyr Asp Lys Phe Lys Tyr Thr Asn Pro
 485 490 495
 Pro Asn Asp Ser Lys Leu Pro Arg Val Arg Thr Arg Val Arg Glu Tyr
 500 505 510
 Val Gln Asn Asp Ile Tyr Val Asn Asn Leu Gln Ala Asn Tyr Phe Gln
 515 520 525
 Tyr Phe Gly Asn Gly Phe Tyr Gly Gln Val Tyr Gly Gly Tyr Leu Glu
 530 535 540
 Thr Met Phe Gly Gly Ala Gly Ala Glu Val Leu Tyr Arg Pro Val Asp
 545 550 555 560
 Ser Asn Trp Ala Phe Gly Val Asp Ala Asn Tyr Val Lys Gln Arg Asp
 565 570 575
 Trp Arg Ser Ala Gln Asp Met Met Lys Phe Thr Asp Tyr Ser Val Lys
 580 585 590
 Thr Gly His Leu Thr Ala Tyr Trp Thr Pro Ser Phe Ala Gln Asp Val
 595 600 605
 Leu Val Lys Ala Ser Val Gly Gln Tyr Leu Ala Gly Asp Lys Gly Gly
 610 615 620
 Thr Leu Asp Ile Ser Lys His Phe Asp Ser Gly Val Val Val Gly Gly


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625          630          635          640
Tyr Ala Thr Ile Thr Asn Val Ser Pro Asp Glu Tyr Gly Glu Gly Asp
Phe Thr Lys Gly Val Tyr Val Ser Ile Pro Leu Asp Leu Phe Ser Ser
Gly Pro Thr Arg Ser Arg Ala Ala Val Gly Trp Thr Pro Leu Thr Arg
Asp Gly Gly Gln Gln Leu Gly Arg Lys Phe Gln Leu Tyr Asp Met Thr
Ser Asp Lys Asn Ile Asn Phe Arg
705          710

```

<210> 9524

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9524

```

Ile Pro Val Thr Phe Leu Arg Tyr Thr Gly Thr Ser Pro Trp Arg Met
1          5          10          15
Arg Cys Cys Met Thr Ser Leu Thr Arg Pro Arg Val Glu Phe Ile Ser
20          25          30
Thr Ile Leu Gln Thr Val Leu Asn Leu Gly Leu Leu Ser Leu Gly Leu
35          40          45
Ile Leu Val Val Phe Leu Gly Lys Glu Thr Val His Leu Ala Asp Val
50          55          60
Leu Phe Ala Pro Glu Gln Thr Ser Lys Tyr Ala Leu Val Glu Gly Leu
65          70          75          80
Val Val Tyr Phe Leu Tyr Phe Glu Phe Ile Ala Leu Ile Val Lys Tyr
85          90          95
Phe Gln Ser Gly Phe His Phe Pro Leu Arg Tyr Phe Val Tyr Ile Gly
100          105          110
Ile Thr Ala Ile Val Arg Leu Ile Ile Val Asp His Lys Ser Pro Leu
115          120          125
Asp Val Leu Ile Tyr Ser Ala Ala Ile Leu Leu Leu Val Ile Thr Leu
130          135          140
Trp Leu Cys Asn Ser Lys Arg Leu Lys Arg Glu
145          150          155

```

<210> 9525

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 9525

```

Ile Leu Phe Val Arg Pro His Phe Val Asn Leu Arg Tyr Asn Ala Phe
1          5          10          15
Thr Leu Cys Ile Gly Glu Ser Gly Met Ser His Pro Ala Leu Thr Gln
20          25          30
Leu Arg Ala Leu Arg Tyr Phe Asp His Ile Pro Ala Leu Asp Pro Glu
35          40          45
Gln Leu Asp Trp Leu Leu Leu Glu Asp Ser Met Thr Lys Arg Phe Glu
50          55          60
Gln Gln Gly Lys Thr Val Thr Val Thr Met Ile Gln Glu Gly Phe Val
65          70          75          80
Ser Pro Ala Glu Ile Ala Ser Glu Leu Pro Leu Leu Pro Gln Glu Glu
85          90          95
Arg Tyr Trp Leu Arg Glu Ile Leu Leu Cys Ala Asp Gly Glu Pro Trp
100          105          110
Leu Ala Gly Arg Thr Val Val Pro Glu Ser Thr Leu Ser Gly Pro Glu
115          120          125

```

Leu Ala Leu Gln Arg Leu Gly Lys Thr Pro Leu Gly Arg Tyr Leu Phe
 130 135 140
 Thr Ser Ser Glu Leu Thr Arg Asp Phe Ile Glu Ile Gly Cys Asp Ala
 145 150 155 160
 Asp Leu Trp Gly Arg Arg Ser Arg Leu Arg Leu Ser Gly Lys Pro Leu
 165 170 175
 Ile Leu Thr Glu Leu Phe Leu Pro Ala Ser Pro Leu Tyr
 180 185 190

<210> 9526

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 9526

Glu Gly Glu Lys Met Glu Trp Ser Leu Thr Gln Asn Lys Leu Leu Ala
 1 5 10 15
 Tyr His Arg Leu Met Arg Thr Asp Lys Pro Ile Gly Ala Leu Leu Leu
 20 25 30
 Leu Trp Pro Thr Leu Trp Ala Leu Trp Val Ala Thr Pro Gly Val Pro
 35 40 45
 Pro Leu Trp Ile Leu Ala Val Phe Val Ala Gly Val Trp Leu Met Arg
 50 55 60
 Ala Ala Gly Cys Val Val Asn Asp Tyr Ala Asp Arg Lys Phe Asp Gly
 65 70 75 80
 His Val Lys Arg Thr Ala Asn Arg Pro Leu Pro Ser Gly Gln Val Thr
 85 90 95
 Gly Lys Glu Ala Arg Ile Leu Phe Val Val Leu Val Leu Leu Ser Phe
 100 105 110
 Met Leu Val Leu Thr Leu Asn Thr Met Thr Ile Leu Leu Ser Val Ala
 115 120 125
 Ala Leu Ala Leu Ala Trp Val Tyr Pro Phe Met Lys Arg Tyr Thr His
 130 135 140
 Leu Pro Gln Val Val Leu Gly Ala Ala Phe Gly Trp Ser Ile Pro Met
 145 150 155 160
 Ala Phe Ala Ala Val Ser Glu Ser Val Pro Leu Ser Cys Trp Leu Met
 165 170 175
 Phe Leu Ala Asn Ile Leu Trp Ala Val Ala Tyr Asp Thr Gln Tyr Ala
 180 185 190
 Met Val Asp Arg Asp Asp Asp Leu Lys Ile Gly Ile Lys Ser Thr Ala
 195 200 205
 Ile Leu Phe Gly Arg His Asp Lys Leu Ile Ile Gly Ile Leu Gln Val
 210 215 220
 Ala Val Leu Ala Leu Met Val Ala Ile Gly Arg Leu Asn Gly Leu Asn
 225 230 235 240
 Trp Glu Phe Tyr Trp Ser Val Leu Val Ala Gly Leu Leu Phe Ala Tyr
 245 250 255
 Gln Gln Lys Leu Ile Ala Lys Arg Glu Arg Glu Ala Cys Phe Lys Ala
 260 265 270
 Phe Leu Asn Asn Asn Tyr Val Gly Leu Val Leu Phe Leu Gly Leu Ala
 275 280 285
 Met Ser Tyr Trp Ser
 290

<210> 9527

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 9527

Lys Val Leu Leu Met Ala Asn Asn Thr Thr Gly Leu Thr Arg Ile Ile

```

1           5           10           15
Lys Ala Ala Gly Tyr Ser Trp Lys Gly Phe Arg Ala Ala Trp Val Asn
20           25           30
Glu Ala Ala Phe Arg Gln Glu Ala Val Ala Ala Ile Val Ala Val Val
35           40           45
Ile Ala Cys Phe Leu Asp Val Asp Ala Ile Thr Arg Val Leu Leu Ile
50           55           60
Gly Ser Val Phe Leu Val Met Ile Val Glu Ile Leu Asn Ser Ala Ile
65           70           75           80
Glu Ala Val Val Asp Arg Ile Gly Ser Glu Phe His Glu Leu Ser Gly
85           90           95
Arg Ala Lys Asp Met Gly Ser Ala Ala Val Leu Leu Ala Ile Ile Thr
100           105           110
Ala Ala Ile Thr Trp Val Thr Leu Leu Trp Ser His Phe Arg
115           120           125

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<210> 9528

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 9528

```

Leu Tyr Ile His Pro Gly Gly Gly Met Lys Ala Leu Thr Thr Arg Gln
1           5           10           15
Gln Glu Val Phe Asp Leu Ile Arg Asp His Ile Gly Gln Thr Gly Met
20           25           30
Pro Pro Thr Arg Ala Glu Ile Ala Gln Arg Leu Gly Phe Arg Ser Pro
35           40           45
Asn Ala Ala Glu Glu His Leu Lys Ala Leu Ala Arg Lys Gly Val Ile
50           55           60
Glu Ile Val Ser Gly Ala Ser Arg Gly Ile Arg Leu Leu Val Glu Glu
65           70           75           80
Glu Ser Gly Ile Pro Leu Val Gly Arg Val Ala Ala Gly Glu Pro Leu
85           90           95
Leu Ala Gln Gln His Ile Glu Gly His Tyr Gln Val Asp Pro Gly Met
100           105           110
Phe Lys Pro Ser Ala Asp Phe Leu Leu Arg Val Ser Gly Met Ser Met
115           120           125
Lys Asp Ile Gly Ile Leu Asp Gly Asp Leu Leu Ala Val His Lys Thr
130           135           140
Gln Asp Val Arg Asn Gly Gln Val Val Val Ala Arg Ile Asp Asp Glu
145           150           155           160
Val Thr Val Lys Arg Leu Lys Lys Gln Gly Asn Thr Val Gln Leu Leu
165           170           175
Pro Glu Asn Asn Glu Phe Ser Pro Ile Val Val Asp Leu Arg Glu Gln
180           185           190
Ser Phe Ser Ile Glu Gly Leu Ala Val Gly Val Ile Arg Asn Gly Glu
195           200           205
Trp Leu
210

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<210> 9529

<211> 460

<212> PRT

<213> Enterobacter cloacae

<400> 9529

```

Phe Leu Tyr Ser Leu Ala Cys Phe Leu Ile Pro Val Ile Ser Met Ala
1           5           10           15
Leu Leu Thr Ser Ala Asp Lys Ala Leu Trp Arg Leu Ala Leu Pro Met
20           25           30

```

```

Ile Phe Ser Asn Ile Thr Val Pro Leu Leu Gly Leu Val Asp Thr Ala
    35          40          45
Val Ile Gly His Leu Asp Ser Pro Ile Tyr Leu Gly Gly Val Ala Ile
    50          55          60
Gly Ala Thr Ala Thr Ser Phe Leu Ile Met Leu Leu Leu Phe Leu Arg
    65          70          75          80
Met Ser Thr Thr Gly Leu Thr Ala Gln Ala Tyr Gly Ala Lys Asp Pro
    85          90          95
Leu Arg Leu Ala Arg Ala Leu Val Gln Pro Leu Ile Leu Ala Phe Gly
    100          105          110
Ala Gly Ala Leu Ile Val Leu Leu Arg Thr Pro Leu Ile Asp Phe Ala
    115          120          125
Leu His Ile Val Gly Gly Ser Asp Ala Val Leu Glu Gln Ala Arg Arg
    130          135          140
Phe Leu Glu Ile Arg Trp Leu Ser Ala Pro Ala Ser Leu Ala Asn Leu
    145          150          155          160
Val Leu Leu Gly Trp Leu Leu Gly Val Gln Tyr Ala Arg Ala Pro Val
    165          170          175
Ile Leu Leu Val Val Gly Asn Leu Leu Asn Ile Met Leu Asp Leu Trp
    180          185          190
Leu Val Met Gly Leu His Met Asn Val Arg Gly Ala Ala Leu Ala Thr
    195          200          205
Ala Ile Ala Glu Tyr Gly Thr Leu Leu Ile Gly Leu Gly Met Val Trp
    210          215          220
Arg Val Leu Ala Met Arg Gly Ile Thr Leu Asp Leu Leu Lys Ser Ala
    225          230          235          240
Trp Arg Gly Asn Ile Arg Lys Leu Leu Ala Leu Asn Arg Asp Ile Met
    245          250          255
Leu Arg Ser Leu Leu Leu Gln Leu Cys Phe Gly Ala Leu Thr Val Phe
    260          265          270
Gly Ala Arg Leu Gly Pro Glu Ile Val Ala Val Asn Ala Val Leu Met
    275          280          285
Thr Leu Leu Thr Phe Thr Ala Tyr Ala Leu Asp Gly Phe Ala Tyr Ala
    290          295          300
Val Glu Ala His Ser Gly Gln Ala Tyr Gly Ala Arg Glu Ser Gly Gln
    305          310          315          320
Leu Arg Glu Val Trp Arg Ala Ala Cys Arg Gln Ala Gly Leu Val Ala
    325          330          335
Leu Ala Phe Ala Leu Val Tyr Ala Cys Phe Gly Gly His Ile Val Ala
    340          345          350
Leu Leu Thr Ser Leu Pro Ala Leu Arg Glu Leu Ala Asp Arg Tyr Ile
    355          360          365
Leu Trp Gln Val Val Leu Pro Val Val Gly Val Trp Cys Tyr Leu Leu
    370          375          380
Asp Gly Met Phe Ile Gly Ala Thr Arg Gly Ala Glu Met Arg Asn Ser
    385          390          395          400
Met Ala Val Ala Ala Gly Phe Gly Leu Thr Leu Leu Thr Leu Pro
    405          410          415
Tyr Leu Gly Asn His Gly Leu Trp Leu Ala Leu Ala Val Phe Leu Ser
    420          425          430
Leu Arg Gly Leu Ser Leu Ala Val Ile Trp His Arg His Trp Arg Asn
    435          440          445
Asn Thr Trp Phe Pro Ala Pro His Asp Ile Ser
    450          455          460

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<210> 9530

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 9530

```

Asn Phe Ala Met Ser Ser Glu Phe Gln Thr Val Phe Pro Ala His Arg
1      5      10
Phe Ser Ile Ala Pro Met Leu Asp Trp Thr Asp Arg His Cys Arg Tyr
20      25      30
Phe Leu Arg Gln Leu Ser Arg His Thr Leu Leu Tyr Thr Glu Met Val
35      40      45
Thr Thr Gly Ala Ile Ile His Gly Lys Gly Asp Tyr Leu Ala Tyr Ser
50      55      60
Glu Glu Glu His Pro Val Ala Leu Gln Leu Gly Gly Ser Asp Pro Ala
65      70      75      80
Ala Leu Ala Gln Cys Ala Lys Leu Ala Glu Arg Gly Tyr Asp Glu
85      90      95
Ile Asn Leu Asn Val Gly Cys Pro Ser Asp Arg Val Gln Asn Gly Met
100      105      110
Phe Gly Ala Cys Leu Met Gly Asn Ala His Leu Val Ala Asp Cys Ile
115      120      125
Lys Ala Met Arg Asp Val Val Ser Ile Pro Val Thr Val Lys Thr Arg
130      135      140
Ile Gly Ile Asp Asp Gln Asp Ser Tyr Glu Phe Leu Cys Asp Phe Ile
145      150      155      160
Asn Thr Val Ser Gly Lys Gly Glu Cys Glu Met Phe Ile Ile His Ala
165      170      175
Arg Lys Ala Trp Leu Ser Gly Leu Ser Pro Lys Glu Asn Arg Glu Ile
180      185      190
Pro Pro Leu Asp Tyr Pro Arg Val Tyr Gln Leu Lys Arg Asp Phe Pro
195      200      205
His Leu Thr Met Ser Ile Asn Gly Gly Ile Lys Ser Leu Asp Glu Ala
210      215      220
Lys Ala His Leu Glu His Met Asp Gly Val Met Val Gly Arg Glu Ala
225      230      235      240
Tyr Gln Asn Pro Gly Ile Leu Ala Thr Val Asp Arg Glu Ile Phe Gly
245      250      255
Val Glu Gly Ala Asp Thr Asp Pro Val Ala Val Val Arg Ala Met Tyr
260      265      270
Pro Tyr Ile Glu Arg Glu Leu Ser His Gly Thr Tyr Leu Gly His Ile
275      280      285
Thr Arg His Met Leu Gly Leu Phe Gln Gly Ile Pro Gly Ala Arg Gln
290      295      300
Trp Arg Arg Tyr Leu Ser Glu Asn Ala His Lys Ala Gly Ala Asp Ile
305      310      315      320
Glu Val Leu Glu His Ala Leu Arg Leu Val Ala Asp Lys Arg
325      330      335

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<210> 9531

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 9531

```

Gly Ile Gln Met Gln Ala Ala Thr Val Val Ile Asn Arg Arg Ala Leu
1      5      10
Arg His Asn Leu Gln Arg Leu Arg Glu Leu Ala Pro Ala Ser Lys Leu
20      25      30
Val Ala Val Val Lys Ala Asn Ala Tyr Gly His Gly Leu Leu Glu Thr
35      40      45
Ala Arg Thr Leu Pro Asp Ala Asp Ala Phe Gly Val Ala Arg Leu Glu
50      55      60
Glu Ala Leu Arg Leu Arg Ala Gly Gly Ile Thr Gln Pro Ile Leu Leu
65      70      75      80
Leu Glu Gly Phe Phe Glu Ala Ser Asp Leu Pro Thr Ile Ala Asp Gln
85      90      95

```

His Leu His Thr Ala Val His Asn Glu Gln Leu Ala Ala Leu Glu
 100 105 110
 Thr Ala Glu Leu Ser Glu Pro Val Thr Val Trp Met Lys Leu Asp Thr
 115 120 125
 Gly Met His Arg Leu Gly Val Arg Pro Glu Ser Ala Glu Ala Phe Tyr
 130 135 140
 Gln Arg Leu Cys Gln Cys Lys Asn Val Arg Gln Pro Val Asn Ile Val
 145 150 155 160
 Ser His Phe Ala Arg Ala Asp Glu Pro Glu Cys Gly Ala Thr Glu Gln
 165 170 175
 Gln Leu Asp Ile Phe Asn Thr Phe Cys Glu Gly Lys Pro Gly Met Arg
 180 185 190
 Ser Ile Ala Ala Ser Gly Gly Ile Leu Leu Trp Pro Gln Ser His Phe
 195 200 205
 Asp Trp Ala Arg Pro Gly Ile Ile Leu Tyr Gly Val Ser Pro Leu Glu
 210 215 220
 Asn Lys Pro Trp Gly Pro Asp Phe Gly Phe Lys Pro Val Met Ser Leu
 225 230 235 240
 Val Ser Lys Leu Ile Ala Val Arg Glu His Lys Ala Gly Glu Pro Val
 245 250 255
 Gly Tyr Gly Gly Thr Trp Ile Ser Glu Arg Asp Thr Arg Leu Gly Val
 260 265 270
 Val Ala Met Gly Tyr Gly Asp Gly Tyr Pro Arg Ala Ala Pro Thr Gly
 275 280 285
 Thr Pro Val Leu Val Asn Gly Arg Glu Val Lys Ile Val Gly Arg Val
 290 295 300
 Ala Met Asp Met Ile Cys Val Asp Leu Gly Pro Asp Ala Gln Asp Lys
 305 310 315 320
 Ala Gly Asp Asp Ala Val Met Trp Gly Glu Gly Leu Pro Val Glu Arg
 325 330 335
 Ile Ala Glu Ile Thr Lys Val Ser Ala Tyr Glu Leu Ile Thr Arg Leu
 340 345 350
 Thr Ser Arg Val Ala Met Lys Tyr Val Asp
 355 360

<210> 9532

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9532

Lys Asp Ser Pro Phe Ile Met Glu Gln His Met Trp Tyr Gln Gln Thr
 1 5 10 15
 Leu Thr Leu Ser Ala Lys Pro Arg Gly Phe His Leu Val Thr Asp Glu
 20 25 30
 Val Ile Gly Gln Ile Arg Asp Leu Ser Arg Val Lys Thr Gly Leu Leu
 35 40 45
 His Leu Leu Leu Gln His Thr Ser Ala Ser Leu Thr Leu Asn Glu Asn
 50 55 60
 Cys Asp Pro Thr Val Arg Ser Asp Met Glu Arg His Phe Leu Lys Thr
 65 70 75 80
 Val Pro Asp Asn Ala Pro Tyr Glu His Asp Tyr Glu Gly Ala Asp Asp
 85 90 95
 Met Pro Ser His Ile Lys Ser Ser Leu Leu Gly Val Ser Leu Met Leu
 100 105 110
 Pro Val His Asn Gly Arg Leu Gln Leu Gly Thr Trp Gln Gly Ile Trp
 115 120 125
 Leu Gly Glu His Arg Ile His Gly Gly Ser Arg Lys Ile Ala Thr
 130 135 140
 Leu Gln Gly Glu
 145

<210> 9533
 <211> 75
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9533
 Arg Arg Cys Pro Ser Ala Tyr Lys Val Ser Lys Ala Ser Glu Asp Leu
 1 5 10 15
 Pro Asp Pro Glu Ser Pro Val Thr Thr Met Ser Leu Ser Arg Gly Ile
 20 25 30
 Met Arg Leu Ile Phe Leu Arg Leu Trp Val Arg Ala Pro Arg Thr Ser
 35 40 45
 Ile Leu Ser Ile His Leu Ser Arg Leu Glu His Gly Leu Pro Asp Leu
 50 55 60
 Phe Glu Gly Gln Thr Ala Val Arg Asn Gly 75
 65 70

<210> 9534
 <211> 156
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9534
 Arg Gly Phe Met Glu Lys Arg Leu Pro Arg Ile Lys Ala Leu Leu Thr
 1 5 10 15
 Pro Gly Glu Val Ala Lys Arg Ser Gly Val Ala Val Ser Ala Leu His
 20 25 30
 Phe Tyr Glu Ser Lys Gly Leu Ile Lys Ser Ile Arg Asn Ala Gly Asn
 35 40 45
 Gln Arg Arg Tyr Thr Arg Asp Val Leu Arg Tyr Val Ala Ile Ile Lys
 50 55 60
 Ile Ala Gln Arg Ile Gly Ile Pro Leu Ala Thr Ile Gly Asp Ala Phe
 65 70 75 80
 Gly Val Leu Pro Glu Gly His Ser Leu Ser Ala Lys Glu Trp Lys Gln
 85 90 95
 Leu Ser Ser Gln Trp Arg Glu Glu Leu Asp Arg Arg Ile His Thr Leu
 100 105 110
 Val Ala Leu Arg Asp Glu Leu Asp Gly Cys Ile Gly Cys Gly Cys Leu
 115 120 125
 Ser Arg Ser Asp Cys Pro Leu Arg Asn Pro Gly Asp Arg Leu Gly Glu
 130 135 140
 Gln Gly Thr Gly Ala Arg Leu Leu Glu Glu Asp
 145 150 155

<210> 9535
 <211> 598
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9535
 Leu Phe Met Arg Lys Arg Val Ala Lys Ala Ala Arg Phe Tyr Phe Gln
 1 5 10 15
 Asp Ser Ser Cys Cys Leu Leu Arg Tyr Ser Gly Glu Asp Arg Ile Arg
 20 25 30
 Gly Thr Thr Pro Gln Val Trp Leu Ile Arg Asn Thr Ala Asn Arg Glu
 35 40 45
 Arg Met Glu Ile Phe Phe Thr Ile Leu Ile Met Thr Leu Val Val Ser
 50 55 60
 Leu Ser Gly Val Val Thr Arg Val Leu Pro Phe Gln Val Pro Leu Pro
 65 70 75 80

Leu Met Gln Ile Ala Ile Gly Ala Leu Leu Ala Trp Pro Thr Phe Gly
 85 90 95
 Leu His Val Glu Phe Asp Pro Glu Leu Phe Leu Val Leu Phe Ile Pro
 100 105 110
 Pro Leu Leu Phe Ala Asp Gly Trp Lys Thr Pro Thr Arg Glu Phe Leu
 115 120 125
 Glu His Gly Arg Glu Ile Phe Gly Leu Ala Leu Ala Leu Val Val Val
 130 135 140
 Thr Val Val Gly Ile Gly Phe Leu Ile Tyr Trp Ala Val Pro Gly Ile
 145 150 155 160
 Pro Leu Ile Pro Ala Phe Ala Leu Ala Ala Val Leu Ser Pro Thr Asp
 165 170 175
 Ala Val Ala Leu Ser Gly Ile Val Gly Glu Gly Arg Ile Pro Lys Lys
 180 185 190
 Ile Met Gly Ile Leu Gln Gly Glu Ala Leu Met Asn Asp Ala Ser Gly
 195 200 205
 Leu Val Ala Leu Lys Phe Ala Val Ala Val Ala Met Gly Thr Met Val
 210 215 220
 Phe Thr Val Gly Gly Ala Thr Leu Glu Phe Phe Lys Val Ala Ile Gly
 225 230 235 240
 Gly Ile Leu Ala Gly Phe Val Val Ser Trp Leu Tyr Gly Arg Ser Leu
 245 250 255
 Arg Phe Leu Ser Arg Trp Gly Gly Asp Glu Pro Ala Thr Gln Ile Val
 260 265 270
 Leu Leu Phe Leu Leu Pro Phe Ala Ser Tyr Leu Ile Ala Glu His Ile
 275 280 285
 Gly Val Ser Gly Ile Leu Ala Ala Val Ala Ala Gly Met Thr Ile Thr
 290 295 300
 Arg Ser Gly Val Met Arg Arg Ala Pro Leu Ala Met Arg Leu Arg Ala
 305 310 315 320
 Asn Ser Thr Trp Ala Met Leu Glu Phe Val Phe Asn Gly Met Val Phe
 325 330 335
 Leu Leu Leu Gly Leu Gln Leu Pro Gly Ile Met Glu Ser Ser Leu Ile
 340 345 350
 Ala Ala Glu Ala Asp Pro Asn Val Glu Val Trp Met Leu Phe Thr Asp
 355 360 365
 Ile Val Leu Ile Tyr Leu Ala Leu Met Leu Val Arg Phe Gly Trp Leu
 370 375 380
 Trp Thr Met Lys Lys Phe Ser Val Arg Phe Leu Thr Lys Lys Pro Met
 385 390 395 400
 Glu Phe Gly Ser Trp Thr Thr Arg Glu Leu Leu Ile Ala Ser Phe Ala
 405 410 415
 Gly Val Arg Gly Ala Ile Thr Leu Ala Gly Val Leu Ser Ile Pro Leu
 420 425 430
 Leu Leu Pro Thr Gly Asp Val Phe Pro Ala Arg Tyr Glu Leu Val Phe
 435 440 445
 Leu Ala Ala Gly Val Ile Leu Phe Ser Leu Phe Val Gly Val Ile Met
 450 455 460
 Leu Pro Ile Leu Leu Gln His Ile Asp Ala Gly Asp Ser Ser Gln Gln
 465 470 475 480
 His Lys Glu Glu Arg Ile Ala Arg Ala Ala Thr Ala Glu Val Ala Ile
 485 490 495
 Val Ala Ile Glu Lys Met Glu Glu Arg Leu Ala Ala Asp Ala Glu Glu
 500 505 510
 Asn Ile Asp Asn Gln Leu Leu Lys Glu Val Ser Ser Arg Val Ile Gly
 515 520 525
 Asn Leu Arg Arg Arg Ala Asp Gly Arg Asn Asp Val Glu Ser Ser Leu
 530 535 540
 Gln Glu Glu Asn Leu Glu Arg Arg Phe Arg Leu Ala Ala Leu Arg Ser
 545 550 555 560
 Glu Arg Ala Glu Leu Tyr His Leu Arg Ala Thr Arg Gln Ile Ser Asn

565 570 575
 Glu Thr Leu Gln Lys Leu Leu His Asp Leu Asp Leu Leu Glu Ala Leu
 580 585 590
 Leu Ile Glu Asn Gln
 595

<210> 9536

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 9536

Trp Cys Trp Ala Pro Pro Gly Trp Trp Ile Arg Cys Ile Ala Leu
 1 5 10 15
 Lys Ser Ala Gly Arg Ser Met Thr Asn Phe Gln Ile Ser Leu Leu Cys
 20 25 30
 Leu Ile Ala Thr Val Val Ile Tyr Phe Ala Asn Lys Arg Leu Tyr Arg
 35 40 45
 Arg Phe Arg Ala Leu Pro Leu Met Pro Leu Val Phe Thr Pro Ile Leu
 50 55 60
 Leu Val Leu Met Leu Val Phe Gly His Ile Ser Trp Gln Asn Tyr Ile
 65 70 75 80
 Gly Glu Ser His Trp Leu Leu Trp Leu Leu Gly Pro Ala Thr Ile Ala
 85 90 95
 Phe Ala Val Pro Val Tyr Asp Asn Leu Ala Ile Ile Arg Arg His Trp
 100 105 110
 Met Ser Leu Ser Ala Gly Val Val Thr Ala Thr Val Val Ala Val Cys
 115 120 125
 Ser Ser Val Trp Leu Ala Arg Leu Phe Thr Leu Ser Asp Glu Ile Gln
 130 135 140
 Arg Ser Leu Ala Val Arg Ser Val Thr Thr Phe Ala Leu Ala Ala
 145 150 155 160
 Ala Lys Pro Leu Gly Gly Gln Pro Asp Leu Val Ala Leu Phe Val Val
 165 170 175
 Val Thr Gly Val Phe Gly Met Ala Val Gly Asp Met Leu Phe Leu Arg
 180 185 190
 Leu Ser Ile Arg Glu Gly Met Ala Lys Gly Ala Gly Phe Gly Ala Ala
 195 200 205
 Ser His Gly Ala Gly Thr Ala Arg Ser Tyr Glu Leu Gly Gln Gln Glu
 210 215 220
 Gly Val Val Ala Ser Leu Val Met Met Leu Ser Gly Val Thr Met Val
 225 230 235 240
 Leu Ile Ala Pro Leu Val Ala Trp Met Met Phe
 245 250

<210> 9537

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 9537

Ile Thr Asp Asn Asp Thr Phe Cys Ser Glu Met Pro Cys Ser Leu Arg
 1 5 10 15
 Leu Ala Gln His Ala Val Gln Met Ile Leu Ile Arg Arg Val Lys Lys
 20 25 30
 Ser His Lys Pro Thr Gln His Asn Ser Tyr Pro Phe Ser Met Ser Pro
 35 40 45
 Tyr Ser Cys Ser Phe Asp Gly Ala Glu Ile Ser Leu Arg Lys Ser Val
 50 55 60
 Ser Met Lys Asn Leu Lys Val Ser Leu Ala Trp Gln Ile Leu Leu Ala
 65 70 75 80

Leu Val Leu Gly Ile Leu Leu Gly Ser Tyr Leu His Tyr His Ser Asp
 85 90 95
 Ser Arg Glu Trp Leu Ile Ala Asn Leu Leu Ser Pro Ala Gly Asp Ile
 100 105 110
 Phe Ile His Leu Ile Lys Met Ile Val Val Pro Ile Val Ile Ser Thr
 115 120 125
 Leu Val Val Gly Ile Ala Gly Val Gly Asp Ala Lys Gln Leu Gly Arg
 130 135 140
 Ile Gly Val Lys Thr Ile Leu Tyr Phe Glu Val Ile Thr Thr Val Ala
 145 150 155 160
 Ile Val Leu Gly Ile Thr Leu Ala Asn Val Phe Gln Pro Gly Ala Gly
 165 170 175
 Ile Asp Met Ser Gln Leu Ala Thr Val Asp Ile Ser Lys Tyr Gln Ser
 180 185 190
 Thr Thr Ala Asp Val Gln Ser His Ser His Gly Leu Met Gly Thr Ile
 195 200 205
 Leu Ser Leu Val Pro Thr Asn Ile Ile Ala Ser Met Ala Lys Gly Glu
 210 215 220
 Met Leu Pro Ile Ile Phe Phe Ser Val Leu Phe Gly Leu Gly Leu Ser
 225 230 235 240
 Ser Leu Pro Ala Thr His Arg Glu Pro Leu Val Thr Val Phe Arg Ser
 245 250 255
 Ile Ser Glu Thr Met Phe Lys Val Thr His Met Val Met Arg Tyr Ala
 260 265 270
 Pro Val Gly Val Phe Ala Leu Ile Ala Val Thr Val Ala Asn Phe Gly
 275 280 285
 Phe Ala Ser Leu Trp Pro Leu Ala Lys Leu Val Ile Leu Val His Phe
 290 295 300
 Ala Ile Leu Phe Phe Ala Leu Val Val Leu Gly Ile Val Ala Arg Leu
 305 310 315 320
 Cys Gly Leu Ser Ile Trp Ile Leu Ile Arg Ile Leu Lys Asp Glu Leu
 325 330 335
 Ile Leu Ala Tyr Ser Thr Ala Ser Ser Glu Ser Val Leu Pro Arg Ile
 340 345 350
 Ile Glu Lys Met Glu Ala Tyr Gly Ala Pro Ala Ser Ile Thr Ser Phe
 355 360 365
 Val Val Pro Thr Gly Tyr Ser Phe Asn Leu Asp Gly Ser Thr Leu Tyr
 370 375 380
 Gln Ser Ile Ala Ala Ile Phe Ile Ala Gln Leu Tyr Gly Ile Asp Leu
 385 390 395 400
 Ser Leu Trp Gln Glu Ile Val Leu Val Leu Thr Leu Met Val Thr Ser
 405 410 415
 Lys Gly Ile Ala
 420

<210> 9538

<211> 280

<212> PRT

<213> *Enterobacter cloacae*

<400> 9538

Pro Leu Leu Gly Gly Arg Arg Gly Ala Asn Pro Pro Val Leu Thr Val
 1 5 10 15
 Ser Arg Cys Arg Phe Leu Pro Gly Glu Asp His Pro Asp Gln Gly Gly
 20 25 30
 Glu Ile Met Lys Met Phe Ile His Ile Ala Leu Leu Ala Ser Leu Ala
 35 40 45
 Ser Pro Leu Ala Trp Ser Ala Gly Thr Val Gln Val Tyr Thr Pro Asp
 50 55 60
 Ser Glu Lys Pro Lys Thr Leu Thr Asn Ala Arg His Leu Leu Asp Leu
 65 70 75 80

Val Gly Gln Pro Arg Leu Ala Lys Ser Trp Trp Thr Gly Ala Val Ile
 85 90 95
 Ser Glu Arg Gln Ala Thr Ile Val Ala Glu Gln Lys His Gln Ala Leu
 100 105 110
 Leu Ala Arg Leu Ser Gly Leu Ala Gln Gln Glu Asp Ala Asp Asp Ala
 115 120 125
 Ala Ala Ile Thr Ser Leu Arg Gln Gln Leu Gln Ala Val Lys Val Thr
 130 135 140
 Gly Arg Gln Lys Val Asn Leu Asp Pro Asp Glu Val Arg Val Ala Glu
 145 150 155 160
 Asn Gly Asn Pro Ser Leu Glu Gly Asp Tyr Thr Leu Trp Leu Pro Ala
 165 170 175
 Gln Pro Ser Thr Val Thr Val Met Gly Leu Leu Ser Ser Pro Gly Lys
 180 185 190
 Lys Pro Phe Thr Pro Gly Arg Asp Val Ala Ser Tyr Leu Asp Glu Gln
 195 200 205
 Ser Leu Leu Ser Gly Ala Asp Lys Ser Tyr Ala Trp Val Val Tyr Pro
 210 215 220
 Asp Gly His Thr Gln Lys Ala Pro Val Ala Tyr Trp Asn Lys Arg His
 225 230 235 240
 Ile Glu Pro Met Pro Gly Ser Ile Ile Phe Val Gly Phe Ala Asp His
 245 250 255
 Phe Trp Thr Lys Ala Tyr Asp Gly Leu Asn Ala Asp Ile Leu Arg Ser
 260 265 270
 Leu Ile Gln Arg Ile Pro Glu
 275 280

<210> 9539

<211> 123

<212> PRT

<213> *Enterobacter cloacae*

<400> 9539

Lys Met Val Lys Tyr Ala Thr Pro Cys Asn Thr Leu Arg Gly Val Leu
 1 5 10 15
 Leu Ser Glu Gln Gln Leu Ile Phe Gly Met Ile Leu Val Thr Ile Ala
 20 25 30
 Ala Ser Phe Gly Asn Ser Trp Glu Ser Thr Met Leu Glu Leu Leu Phe
 35 40 45
 Val Ile Gly Phe Phe Ile Met Leu Met Val Thr Gly Val Ser Leu Leu
 50 55 60
 Gly Ile Leu Ala Ala Leu Val Val Ala Thr Val Val Met Phe Val Gly
 65 70 75 80
 Gly Leu Phe Ala Leu Thr Ile Lys Leu Leu Pro Trp Leu Leu Leu Ala
 85 90 95
 Ile Ala Val Val Trp Ala Ile Arg Ala Ile Lys Ser Pro Lys Leu Pro
 100 105 110
 Ser Tyr Gln Arg Asn Asn Arg Phe Arg Tyr
 115 120

<210> 9540

<211> 403

<212> PRT

<213> *Enterobacter cloacae*

<400> 9540

Ser Gly Glu His Arg Val Phe Gln Lys Val Asp Ala Tyr Ala Gly Asp
 1 5 10 15
 Pro Ile Leu Ser Leu Met Glu Arg Phe Lys Glu Asp Pro Arg Ser Asp
 20 25 30
 Lys Val Asn Leu Ser Ile Gly Leu Tyr Tyr Asn Glu Asp Gly Ile Ile

35 40 45
 Pro Gln Leu Lys Ala Val Ala Glu Ala Glu Ala Arg Leu Asn Ala Thr
 50 55 60
 Pro His Gly Ala Ser Leu Tyr Leu Pro Met Glu Gly Leu Asn Thr Tyr
 65 70 75 80
 Arg Asn Thr Ile Ala Pro Leu Leu Phe Gly Ala Asp His Ala Val Leu
 85 90 95
 Ala Gln Lys Arg Val Ala Thr Ile Gln Thr Leu Gly Gly Ser Gly Ala
 100 105 110
 Leu Lys Val Gly Ala Asp Phe Leu Lys Lys Tyr Phe Pro Asp Ser Gly
 115 120 125
 Val Trp Val Ser Asp Pro Thr Trp Glu Asn His Val Ala Ile Phe Glu
 130 135 140
 Gly Ala Gly Phe Lys Val Glu Thr Tyr Pro Trp Phe Asp Ser Glu Thr
 145 150 155 160
 Asn Gly Val Arg Val Asp Ala Leu Leu Glu Lys Leu Asn Thr Leu Pro
 165 170 175
 Glu Arg Ser Ile Val Leu Leu His Pro Cys His Asn Pro Thr Gly
 180 185 190
 Ala Asp Leu Thr Asn Ala Gln Trp Asp Ala Val Ile Glu Ile Leu Lys
 195 200 205
 Ala Arg Asn Leu Ile Pro Phe Leu Asp Ile Ala Tyr Gln Gly Phe Gly
 210 215 220
 Ala Gly Met Glu Glu Asp Ala Tyr Ala Ile Arg Ala Ile Ala Ser Ala
 225 230 235 240
 Gly Leu Pro Ala Leu Val Ser Asn Ser Phe Ser Lys Ile Phe Ser Leu
 245 250 255
 Tyr Gly Glu Arg Val Gly Gly Leu Ser Val Val Cys Glu Asp Ala Glu
 260 265 270
 Ala Ala Gly Arg Val Leu Gly Gln Leu Lys Ala Thr Val Arg Arg Ile
 275 280 285
 Tyr Ser Ser Pro Pro Asn Phe Gly Ala Gln Val Val Ala Thr Val Leu
 290 295 300
 Gly Asp Glu Arg Leu Lys Ala Thr Trp Leu Ala Glu Val Glu Ala Met
 305 310 315 320
 Arg Lys Arg Ile Leu Ser Met Arg Gln Glu Leu Val Asn Val Leu Lys
 325 330 335
 Glu Ala Val Pro Gly His Asn Phe Asp Tyr Leu Leu Lys Gln Arg Gly
 340 345 350
 Met Phe Ser Tyr Thr Gly Leu Ser Ala Ala Gln Val Asp Arg Leu Arg
 355 360 365
 Glu Glu Phe Gly Val Tyr Leu Ile Ala Ser Gly Arg Met Cys Val Ala
 370 375 380
 Gly Leu Asn Ala Ser Asn Val Gln Arg Val Ala Gln Ala Phe Ala Ala
 385 390 395 400
 Val Met

<210> 9541

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 9541

Glu Thr Tyr Ser Gly Asp Thr Asn Met Ala Ser Arg Gly Val Asn Lys
 1 5 10 15
 Val Ile Leu Val Gly Asn Leu Gly Gln Asp Pro Glu Val Arg Tyr Met
 20 25 30
 Pro Ser Gly Gly Ala Val Ala Asn Ile Thr Leu Ala Thr Ser Glu Ser
 35 40 45
 Trp Arg Asp Lys Ala Thr Gly Glu Met Lys Glu Gln Thr Glu Trp His

50 55 60
 Arg Val Val Leu Phe Gly Lys Leu Ala Glu Val Ala Gly Glu Tyr Leu
 65 70 75 80
 Arg Lys Gly Ser Gln Val Tyr Ile Glu Gly Gln Leu Arg Thr Arg Lys
 85 90 95
 Trp Thr Asp Gln Ser Gly Gln Glu Lys Tyr Thr Thr Glu Val Val Val
 100 105 110
 Asn Val Gly Gly Thr Met Gln Met Leu Gly Gly Arg Gln Gly Gly Gly
 115 120 125
 Ala Pro Ala Gly Gly Gly Gln Gln Gln Gly Gly Trp Gly Gln Pro Gln
 130 135 140
 Gln Pro Gln Gly Gly Asn Gln Phe Ser Gly Gly Ala Gln Ser Arg Pro
 145 150 155 160
 Gln Gln Gln Ser Ala Pro Ala Pro Ser Asn Glu Pro Pro Met Asp Phe
 165 170 175
 Asp Asp Asp Ile Pro Phe
 180

<210> 9542

<211> 492

<212> PRT

<213> Enterobacter cloacae

<400> 9542

Phe Arg Gly Leu Ile Leu Leu Phe Arg Tyr Glu Leu Leu Arg Leu Leu
 1 5 10 15
 Ser Arg Leu Met Thr Cys Glu Lys Ile Met Lys Glu Gln Arg Arg Glu
 20 25 30
 Ile Ile Asn Asp Ser Met Gln Ala Leu His Ala Leu Ala Lys Leu Met
 35 40 45
 Pro Gln Leu Asn Ala Gln Cys Ser Pro Val Glu Met Leu Glu Thr Ile
 50 55 60
 Asn Ser Ala Leu Gly Ala Asn Leu Ser Trp Val Ser Val Glu Ser Ala
 65 70 75 80
 Asp Gly Pro Arg Val Val Cys Ala Gly Asp Val Thr Cys His Ala Phe
 85 90 95
 Asn Val Ala Asp Phe Leu Ala Ser Thr Leu Leu Gln Arg His His Arg
 100 105 110
 Ala Trp Arg Val Ile Tyr Trp Lys Ala His Ile Gly Arg Ala Val Phe
 115 120 125
 Ser Pro Gln His Pro Gly Tyr Ala Arg Leu Gln Ser Gly Val Leu Cys
 130 135 140
 Lys Leu Ser Ala His Gly Arg Gln Cys Ser Gly Tyr Phe Phe Leu Ala
 145 150 155 160
 Phe Asn Gly Lys Leu Thr Ser Leu Pro Ile Leu Lys Asn Ile Val Val
 165 170 175
 Val Leu Val Glu Lys Leu Lys Asp Tyr Phe Asp Asp Ile Ile Val Arg
 180 185 190
 Glu Lys Thr Ala Gln Glu Met Gln Arg Val Val Thr Gln Tyr Lys Thr
 195 200 205
 Leu Phe Glu Arg Ala Pro Val Leu Met Asn Ala Phe Asp Arg His Asn
 210 215 220
 Arg Cys Val Leu Trp Asn Ala Glu Cys Glu Lys Val Phe Gly Trp Ser
 225 230 235 240
 Met Thr Glu Ile Asp Glu His Pro Asp Pro Leu Ala Leu Phe Tyr Pro
 245 250 255
 Asp Pro Glu Glu Arg Gln Arg Val Gln Glu Ser Val Arg Phe Ala Pro
 260 265 270
 Leu Lys Asp Met Tyr Glu Trp His Pro Val Arg Lys Asp Gly Thr Gln
 275 280 285
 Leu Thr Ile Leu Trp Ser Asn Ile Leu Leu Pro Asp Asn Ser Ile Leu

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      290              295              300
Asn Ile Gly Leu Asp Ile Thr Glu Arg Lys Lys Ala Glu Gln Gln Leu
305              310              315
Thr Val Lys Ala Thr Thr Asp Asp Leu Thr Gly Cys Leu Asn Arg Ser
              325              330              335
Thr Ile Leu Gln Gln Leu Lys Met Ala Leu Ala Ala Ser Ser Pro Gln
              340              345              350
Asp Val Ser Ser Ser His Phe Cys Leu Leu Met Phe Asp Leu Asp Tyr Phe
              355              360              365
Lys Gln Ile Asn Asp Arg Trp Gly His Gln Val Gly Asp Ala Ala Leu
              370              375              380
Ile His Phe Cys Asp Arg Ile Arg Glu Val Ser Pro Ala Gly Ser Ala
385              390              395
Leu Gly Arg Val Gly Gly Glu Glu Phe Val Leu Leu Ala Arg Thr
              405              410              415
Asp Gly Met Ala Ala Thr Leu Leu Ser Ser Arg Leu Arg Ala Ala Leu
              420              425              430
Ile Ser Lys Pro Leu Arg Val Gly Asp Lys Thr Leu Val Leu Ser Phe
              435              440              445
Ser Ala Gly Val Val Glu Val Cys Gln Gly Gln Arg Asp Thr Ser Ala
450              455              460
Ile Leu Met Arg Ala Asp Lys Ala Leu Tyr Asp Ala Lys Arg Thr Gly
465              470              475
Arg Gly Lys Thr Val Leu Ala Ser Asp Tyr Leu
              485              490

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<210> 9543

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 9543

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Pro Asn Phe Phe Arg Glu Val Ala Gln Phe Ser Ile Val Lys Lys Tyr
1              5              10              15
Glu Ser Ser Glu Asn Ile Met Leu Thr Val His His Leu Asn Gln Ser
              20              25              30
Arg Ser His Arg Val Leu Trp Ala Leu Glu Glu Leu Gly Leu Thr Tyr
              35              40              45
Asp Ile Val Arg Tyr Gln Arg Glu Lys Thr Met Leu Ala Pro Asp Ser
50              55              60
Leu Lys Lys Val His Pro Leu Gly Lys Ser Pro Val Leu Glu Asp Asn
65              70              75              80
Gly Leu Val Leu Ala Glu Ser Gly Ala Ile Met Glu Tyr Leu Gln Glu
              85              90              95
Thr Tyr Asp Ser Ala Ser Arg Phe Lys Pro Leu Asp Pro Ala His Lys
              100              105              110
Val Gln Tyr Arg Phe Trp Leu His Tyr Ala Glu Gly Ser Leu Met Pro
              115              120              125
Leu Leu Leu Met Lys Leu Val Phe Asn Ser Leu Gly Lys Pro Pro Val
130              135              140
Pro Phe Gly Leu Arg Thr Leu Gly Lys Ala Leu Gly Gln Gly Val Gln
145              150              155
Lys Ala Tyr Leu Asn Arg Gln Leu Glu Thr His Ala Arg Phe Ile Asn
              165              170              175
Asp His Leu Ala Glu Asn Ser Trp Phe Ala Gly Asp Thr Leu Thr Met
              180              185              190
Ala Asp Ile Gln Met Ser Phe Pro Leu Phe Ala Leu Leu Ala Arg Gly
195              200              205
Gly Ile Asp Asn Leu Asp His Ile Ala Ala Trp Lys Gln Arg Val Glu
210              215              220
Ala Arg Pro Gly Trp Gln Thr Thr Leu Ala Lys Gly Gly Pro Leu Thr

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<210> 9544
<211> 473
<212> PRT
<213> Enterobacter cloacae
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Arg	Leu	Ala	Gly	Ser	Gly	Val	Ser	Thr	Ser	Leu	Thr	Asp	Phe	Leu	Lys
1				5					10					15	
Asn	Ser	Gln	Gly	Met	Phe	Ser	Met	Ser	Thr	Pro	Ser	Ala	Arg	Thr	Gly
			20						25				30		
Gly	Ser	Leu	Asp	Ala	Met	Phe	Lys	Ile	Ser	Ala	Arg	Gly	Ser	Thr	Val
		35					40					45			
Arg	Gln	Glu	Val	Val	Ala	Gly	Leu	Thr	Thr	Phe	Leu	Ala	Met	Val	Tyr
	50					55					60				
Ser	Val	Ile	Val	Val	Pro	Gly	Met	Leu	Gly	Lys	Ala	Gly	Phe	Pro	80
65					70					75					
Ala	Ala	Val	Phe	Val	Ala	Thr	Cys	Leu	Val	Ala	Gly	Val	Gly	Ser	Ile
				85					90					95	
Val	Met	Gly	Leu	Trp	Ala	Asn	Leu	Pro	Leu	Ala	Ile	Gly	Cys	Ala	Ile
			100					105					110		
Ser	Leu	Thr	Ala	Phe	Thr	Ala	Phe	Ser	Leu	Val	Leu	Gly	Gln	Gln	Ile
	115					120						125			
Ser	Val	Pro	Val	Ala	Leu	Gly	Ala	Val	Phe	Leu	Met	Gly	Val	Leu	Phe
	130					135					140				
Thr	Val	Ile	Ser	Ala	Thr	Gly	Ile	Arg	Ser	Trp	Ile	Leu	Arg	Asn	Leu
145					150					155					160
Pro	Gln	Gly	Val	Ala	His	Gly	Thr	Gly	Ile	Gly	Ile	Gly	Leu	Phe	Leu
				165					170					175	
Leu	Leu	Ile	Ala	Ala	Asn	Gly	Val	Gly	Leu	Val	Ile	Lys	Asn	Pro	Leu
		180						185					190		
Asp	Gly	Leu	Pro	Val	Ala	Leu	Gly	Asn	Phe	Ala	Ser	Phe	Pro	Val	Ile
		195				200						205			
Met	Ser	Leu	Val	Gly	Leu	Ala	Val	Ile	Ile	Gly	Leu	Glu	Lys	Leu	Lys
	210					215					220				
Val	Pro	Gly	Gly	Ile	Leu	Leu	Thr	Ile	Ile	Gly	Val	Ser	Ile	Val	Gly
225					230					235					240
Leu	Ile	Phe	Asp	Pro	Thr	Val	His	Phe	Ser	Gly	Ile	Phe	Ala	Met	Pro
				245						250				255	
Ser	Leu	Ser	Asp	Asp	Lys	Gly	Asn	Ser	Leu	Ile	Gly	Ser	Leu	Asp	Ile
			260					265					270		
Met	Gly	Ala	Leu	Asn	Pro	Val	Ile	Leu	Pro	Ser	Val	Leu	Ala	Leu	Val
	275						280					285			
Met	Thr	Ala	Val	Phe	Asp	Ala	Thr	Gly	Thr	Ile	Arg	Ala	Val	Ala	Gly
	290					295					300				
Gln	Ala	Asn	Leu	Leu	Asp	Lys	Asp	Gly	Gln	Ile	Ile	Asp	Gly	Gly	Lys
305					310					315					320
Ala	Leu	Thr	Thr	Asp	Ser	Leu	Ser	Ser	Val	Phe	Ser	Gly	Leu	Val	Gly
				325					330					335	
Ala	Ala	Pro	Ala	Ala	Val	Tyr	Ile	Glu	Ser	Ala	Ala	Gly	Thr	Ala	Ala
				340				345					350		
Gly	Gly	Lys	Thr												

405 410 415
 Thr Ala Val Phe Ile Val Leu Thr Cys Asn Ile Val Thr Gly Ile Met
 420 425 430
 Ile Gly Phe Ala Ser Leu Val Ile Gly Arg Leu Val Ser Gly Glu Trp
 435 440 445
 Arg Lys Leu Asn Ile Gly Thr Val Val Ile Ala Val Ala Leu Val Ala
 450 455 460
 Phe Tyr Ala Gly Gly Thr Ala Ile
 465 470

<210> 9545

<211> 631

<212> PRT

<213> Enterobacter cloacae

<400> 9545

His Arg Gly Thr Phe Gln Ala Pro Gly Val Lys Thr Thr Gly Pro Tyr
 1 5 10 15
 Phe Met Leu Leu Val Tyr Pro Leu Phe Asp Gln His Phe Ala Thr Pro
 20 25 30
 Glu Gly Arg Asp Ser Ser Tyr Thr Phe Arg Val Phe Ser Pro Ala Phe
 35 40 45
 Asp Ala Asp Gln Gly Asn Gly Ile Lys Thr Ile Thr Ile Phe Ile Cys
 50 55 60
 Arg Arg Tyr Asn Arg Pro Gln Ser Gln Phe Ser Asn Gln Lys Ser Ile
 65 70 75 80
 Ala Met Lys Asn Ile Asn Pro Thr Gln Thr Ala Ala Trp Gln Ala Leu
 85 90 95
 Gln Lys His Phe Asp Glu Met Lys Asp Val Thr Ile Ala Asp Leu Phe
 100 105 110
 Ala Lys Asp Ala Asp Arg Phe Ser Lys Phe Ser Ala Thr Phe Asp Asp
 115 120 125
 Leu Met Leu Val Asp Phe Ser Lys Asn Arg Ile Thr Glu Glu Thr Leu
 130 135 140
 Ala Lys Leu Gln Asp Leu Ala Lys Glu Thr Glu Leu Ala Asp Ala Ile
 145 150 155 160
 Lys Ser Met Phe Ser Gly Glu Lys Ile Asn Arg Thr Glu Asp Arg Ala
 165 170 175
 Val Leu His Val Ala Leu Arg Asn Arg Ser Asn Thr Pro Ile Ile Val
 180 185 190
 Asp Gly Lys Asp Val Met Pro Glu Val Asn Ala Val Leu Glu Lys Met
 195 200 205
 Lys Thr Phe Ser Glu Ala Ile Ile Ser Gly Ser Trp Lys Gly Tyr Thr
 210 215 220
 Gly Lys Ala Ile Thr Asp Val Val Asn Ile Gly Ile Gly Gly Ser Asp
 225 230 235 240
 Leu Gly Pro Phe Met Val Thr Glu Ala Leu Arg Pro Tyr Lys Asn His
 245 250 255
 Leu Asn Met His Phe Val Ser Asn Val Asp Gly Thr His Ile Ala Glu
 260 265 270
 Val Leu Lys Lys Val Asn Pro Glu Thr Thr Leu Phe Leu Val Ala Ser
 275 280 285
 Lys Thr Phe Thr Thr Gln Glu Thr Met Thr Asn Ala His Ser Ala Arg
 290 295 300
 Asp Trp Phe Leu Lys Thr Ala Gly Asp Glu Lys His Val Ala Lys His
 305 310 315 320
 Phe Ala Ala Leu Ser Thr Asn Gly Lys Ala Val Gly Glu Phe Gly Ile
 325 330 335
 Asp Thr Ala Asn Met Phe Glu Phe Trp Asp Trp Val Gly Gly Arg Tyr
 340 345 350
 Ser Leu Trp Ser Ala Ile Gly Leu Ser Ile Ile Leu Ser Val Gly Phe


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      355              360              365
Asp Asn Phe Val Glu Leu Leu Ser Gly Ala His Ala Met Asp Lys His
370              375              380
Phe Ser Thr Thr Ala Pro Glu Lys Asn Leu Pro Val Leu Leu Ala Leu
385              390              395
Ile Gly Ile Trp Tyr Asn Asn Phe Phe Gly Ala Glu Thr Glu Ala Ile
      405              410              415
Leu Pro Tyr Asp Gln Tyr Met His Arg Phe Ala Ala Tyr Phe Gln Gln
      420              425              430
Gly Asn Met Glu Ser Asn Gly Lys Tyr Val Asp Arg Asn Gly Asn Ala
      435              440              445
Val Asp Tyr Gln Thr Gly Pro Ile Ile Trp Gly Glu Pro Gly Thr Asn
      450              455              460
Gly Gln His Ala Phe Tyr Gln Leu Ile His Gln Gly Thr Lys Met Val
      465              470              475
Pro Cys Asp Phe Ile Ala Pro Ala Ile Thr His Asn Pro Leu Ser Asp
      485              490              495
His His Pro Lys Leu Leu Ser Asn Phe Phe Ala Gln Thr Glu Ala Leu
      500              505              510
Ala Phe Gly Lys Ser Arg Glu Val Val Glu Gln Glu Tyr Arg Asp Gln
      515              520              525
Gly Lys Asp Pro Ala Thr Leu Glu His Val Val Pro Phe Lys Val Phe
      530              535              540
Glu Gly Asn Arg Pro Thr Asn Ser Ile Leu Leu Arg Glu Ile Thr Pro
      545              550              555
Phe Ser Leu Gly Ala Leu Ile Ala Leu Tyr Glu His Lys Ile Phe Thr
      565              570              575
Gln Gly Ala Ile Leu Asn Ile Phe Thr Phe Asp Gln Trp Gly Val Glu
      580              585              590
Leu Gly Lys Gln Leu Ala Asn Arg Ile Leu Pro Glu Leu Gly Asp Asp
      595              600              605
Lys Ala Ile Asp Ser His Asp Ser Ser Thr Asn Gly Leu Ile Asn Arg
      610              615              620
Tyr Lys Ala Trp Arg Ala
      625              630

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<210> 9546

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 9546

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Pro His Phe Gly Val Val Ile Ser Pro Leu Arg Arg Arg Val Val Lys
1              5              10              15
Arg Pro Ala Ile Ile Leu Ile Cys Leu Leu Leu Gln Ala Cys Ser Ala
      20              25              30
Thr Thr Lys Gly Leu Gly His Ser Leu Trp Asp Ser Met Phe Gly Thr
      35              40              45
Pro Gly Val His Leu Thr Asp Asp Glu Leu Gln Asn Met Pro Tyr Ala
      50              55              60
Ser Gln Tyr Met Gln Leu Asn Asp Gly Pro Gln Leu Phe Val Val Leu
      65              70              75              80
Ala Phe Asp Glu Asn Gly Gln Gln Lys Trp Val Thr Gln Asp Gln Ala
      85              90              95
Thr Ile Val Thr Gln His Ser Arg Ile Val Lys Thr Leu Leu Gly Gly
      100              105              110
Asp Asn Leu Leu Glu Val Asn Asn Leu Ala Glu Asp Pro Leu Ile Lys
      115              120              125
Pro Asn Gln Ile Val Asp Gly Ala Ser Trp Thr Arg Thr Met Gly Trp
      130              135              140
Thr Glu His Lys Gln Val Arg Tyr Ala Thr Ala Arg Ser Thr Phe Arg

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145 150 155 160
 Trp Asp Gly Thr Asp Ser Val Lys Val Gly Ser Asp Glu Thr Gln Val
 165 170 175
 Arg Val Leu Asp Glu Glu Val Thr Thr Asp Gln Ala Thr Trp His Asn
 180 185 190
 Arg Phe Trp Val Asp Glu Glu Gly Gln Ile Arg Gln Ser Leu Gln Tyr
 195 200 205
 Leu Gly Ala Gly Phe Phe Pro Val Lys Thr Thr Leu Ile Lys Ala Ala
 210 215 220
 Lys Ser
 225

<210> 9547

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 9547

Arg Arg Glu Lys Lys Gly Met Ala Ser Val Gln Leu Arg Asn Val Thr Lys
 1 5 10 15
 Ala Trp Gly Asp Val Val Val Ser Lys Asp Ile Asn Leu Asp Ile His
 20 25 30
 Glu Gly Glu Phe Val Val Phe Val Gly Pro Ser Gly Cys Gly Lys Ser
 35 40 45
 Thr Leu Leu Arg Met Ile Ala Gly Leu Glu Thr Ile Thr Arg Gly Asp
 50 55 60
 Leu Phe Ile Gly Asp Thr Arg Met Asn Asp Ile Pro Pro Ala Glu Arg
 65 70 75 80
 Gly Val Gly Met Val Phe Gln Ser Tyr Ala Leu Tyr Pro His Leu Ser
 85 90 95
 Val Ala Glu Asn Met Ser Phe Gly Leu Lys Leu Ala Gly Ala Lys Lys
 100 105 110
 Glu Thr Ile Asn Gln Arg Val Thr Gln Val Ala Glu Val Leu Gln Leu
 115 120 125
 Ala His Leu Leu Glu Arg Lys Pro Lys Ala Leu Ser Gly Gly Gln Arg
 130 135 140
 Gln Arg Val Ala Ile Gly Arg Thr Leu Val Ala Glu Pro Arg Val Phe
 145 150 155 160
 Leu Leu Asp Glu Pro Leu Ser Asn Leu Asp Ala Ala Leu Arg Val Gln
 165 170 175
 Met Arg Ile Glu Ile Ser Arg Leu His Lys Arg Leu Gly Arg Thr Met
 180 185 190
 Ile Tyr Val Thr His Asp Gln Val Glu Ala Met Thr Leu Ala Asp Lys
 195 200 205
 Ile Val Val Leu Asp Ala Gly Arg Val Ala Gln Val Gly Lys Pro Leu
 210 215 220
 Glu Leu Tyr His Tyr Pro Ala Asp Arg Phe Val Ala Gly Phe Ile Gly
 225 230 235 240
 Ser Pro Lys Met Asn Phe Leu Pro Val Lys Val Thr Ala Thr Ala Ile
 245 250 255
 Glu Gln Val Gln Val Glu Leu Pro Asn Arg Gln Gln Val Trp Leu Pro
 260 265 270
 Val Asp Ser Ala Asn Val Gln Val Gly Ala Asn Met Ser Leu Gly Ile
 275 280 285
 Arg Pro Glu His Leu Leu Pro Ser His Ile Ala Asp Val Thr Leu Glu
 290 295 300
 Gly Glu Val Gln Val Val Glu Gln Leu Gly His Glu Thr Gln Ile His
 305 310 315 320
 Ile Gln Ile Pro Ala Ile Arg Gln Asn Leu Val Tyr Arg Gln Asn Asp
 325 330 335
 Val Val Leu Val Glu Glu Gly Ala Thr Phe Ala Ile Gly Leu Pro Pro

340 345 350
 Glu Arg Cys His Leu Phe Arg Glu Asp Gly Thr Ala Cys Arg Arg Leu
 355 360 365
 His Lys Glu Pro Gly Val
 370 375

<210> 9548
 <211> 451
 <212> PRT
 <213> Enterobacter cloacae

<400> 9548
 Ala Phe Gln Leu Gln Arg Lys Ala Met Ile Ser Gly Asp Arg Ile Met
 1 5 10 15
 Ile Thr Leu Arg Lys Val Pro Leu Ala Val Ala Ile Ala Gly Ile
 20 25 30
 Leu Ser Ala Gln Ala Gly Ala Val Asp Phe Lys Gly Tyr Ala Arg Ser
 35 40 45
 Gly Ile Gly Trp Thr Gly Ser Gly Gly Glu Gln Gln Cys Phe Gln Ala
 50 55 60
 Thr Gly Ala Gln Ser Lys Tyr Arg Leu Gly Asn Glu Cys Glu Thr Tyr
 65 70 75 80
 Ala Glu Leu Lys Leu Gly Gln Glu Val Trp Lys Glu Gly Asp Lys Ser
 85 90 95
 Phe Tyr Phe Asp Thr Asn Val Ala Tyr Ser Val Ser Gln Gln Asn Asp
 100 105 110
 Trp Glu Ser Thr Ser Pro Ala Phe Arg Glu Ala Asn Val Gln Gly Lys
 115 120 125
 Asn Leu Ile Glu Trp Leu Pro Gly Ser Thr Ile Trp Ala Gly Lys Arg
 130 135 140
 Phe Tyr Gln Arg His Asp Val His Met Ile Asp Phe Tyr Tyr Trp Asp
 145 150 155 160
 Ile Ser Gly Pro Gly Ala Gly Ile Glu Asn Ile Asp Leu Gly Phe Gly
 165 170 175
 Lys Leu Ser Leu Ala Ala Thr Arg Ser Ser Glu Ser Gly Gly Ser Ala
 180 185 190
 Thr Phe Ala Asp Arg Asp Ala Asn Gly Asp Arg Ile Tyr Asp Asn Val
 195 200 205
 Val Pro Asn Asp Val Phe Asp Val Arg Leu Ala Gly Leu Glu Thr Asn
 210 215 220
 Pro Gly Gly Thr Leu Glu Leu Gly Val Asp Tyr Gly His Thr Asn Ile
 225 230 235 240
 Pro Asp Asp Tyr Tyr Leu Gln Pro Gly Ala Ser Lys Asp Gly Trp Leu
 245 250 255
 Phe Thr Ala Glu His Thr Gln Ser Met Met Lys Gly Phe Asn Lys Phe
 260 265 270
 Val Leu Gln Tyr Gly Thr Asp Ser Met Thr Ser Asn Gly Lys Gly Ile
 275 280 285
 Pro Gln Gly Gly Ser Ile Asp Asn Asp Gly Ser Met Trp Arg Val Leu
 290 295 300
 Asp His Gly Ala Ile Thr Leu Ala Asp Arg Trp Asp Leu Met Tyr Val
 305 310 315 320
 Gly Met Tyr Gln Asn Ile Asp Arg Asp Asn Asn Asn Gly Thr Glu Trp
 325 330 335
 Trp Thr Val Gly Val Arg Pro Met Phe Lys Trp Thr Pro Ile Met Ser
 340 345 350
 Thr Leu Leu Glu Val Gly Tyr Asp Asn Val Lys Ser Gln Lys Thr Asp
 355 360 365
 Asp Lys Asn Ser Gln Tyr Lys Ile Thr Leu Ala Gln Gln Trp Gln Ala
 370 375 380
 Gly Asp Ser Ile Trp Ser Arg Pro Ala Ile Arg Val Phe Ala Thr Tyr

385 390 395 400
 Ala Lys Trp Asp Glu Lys Trp Gly Tyr Ala Asn Asn Asp Ser Gly Ala
 405 410 415
 Gly Tyr Thr Ser Gly Val Ala Tyr Ser Asp Thr Ser Ala Lys Thr Phe
 420 425 430
 Ser Arg Gly Asp Asn Asp Glu Trp Thr Phe Gly Ala Gln Met Glu Ile
 435 440 445
 Trp Trp
 450

<210> 9549

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 9549

Gly Ala Ala Arg Tyr Cys Leu Ala Thr Ala Val Leu Thr Leu Ser Glu
 1 5 10 15
 Val Ile Thr Met Lys Met Lys Lys Ser Leu Val Ala Leu Cys Leu Ser
 20 25 30
 Ala Gly Leu Leu Ala Cys Ala Pro Ala Leu Thr Tyr Ala Asp Val Asn
 35 40 45
 Phe Val Pro Gln Asn Thr Ser Ala Ala Pro Ala Ile Pro Ala Ala Ala
 50 55 60
 Leu Gln Gln Leu Val Trp Thr Pro Val Asp Gln Ser Lys Thr Gln Thr
 65 70 75 80
 Thr Gln Leu Ala Ala Gly Gly Gln Ser Leu Asn Val Pro Gly Ile Ser
 85 90 95
 Gly Pro Val Ala Ala Phe Ser Val Pro Ala Asn Ile Gly Glu Leu Thr
 100 105 110
 Leu Thr Leu Thr Ser Glu Val Asn Lys Gln Thr Ser Val Phe Ala Pro
 115 120 125
 Asn Val Leu Ile Leu Asp Gln Ser Met Thr Pro Ser Ala Phe Phe Pro
 130 135 140
 Ser Asp Tyr Phe Ser Tyr Gln Glu Pro Gly Val Met Ser Ala Asp Arg
 145 150 155 160
 Leu Glu Gly Val Met Arg Leu Thr Pro Ala Leu Gly Gln Gln Lys Ile
 165 170 175
 Tyr Val Leu Val Phe Thr Thr Glu Lys Asp Leu Gln Gln Thr Thr Lys
 180 185 190
 Leu Val Asp Pro Ala Lys Ala Tyr Ala Lys Gly Thr Gly Asn Ala Val
 195 200 205
 Pro Asp Ile Pro Asp Pro His Ala Arg His Thr Thr Asp Gly Leu Ile
 210 215 220
 Lys Leu Lys Val Ser Thr Asn Ser Ala Ser Ser Val Leu Val Gly Pro
 225 230 235 240
 Leu Phe Gly Ser Ser Gly Pro Gly Pro Val Thr Val Gly Asn Thr Ala
 245 250 255
 Ala Pro Val Tyr Ala Ala Pro Ala Ala Thr Pro Ala Ala Ala Pro Ala
 260 265 270
 Pro Ala Lys Lys Ala Glu Pro Val Leu Asn Asp Thr Glu Thr Tyr Phe
 275 280 285
 Asn Asn Ala Ile Lys Gln Ala Val Lys Asn Gly Asp Val Asp Lys Ala
 290 295 300
 Leu Lys Leu Leu Asp Glu Ala Glu Arg Leu Gly Ser Thr Thr Ala Arg
 305 310 315 320
 Ser Thr Phe Ile Ser Ser Val Lys Gly Lys
 325 330

<210> 9550

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 9550

His Glu Asp Thr Ile Met Asn Lys Asp Glu Ile Gly Gly Asn Trp Lys
 1 5 10 15
 Gln Phe Lys Gly Lys Ala Lys Glu Gln Trp Gly Lys Leu Thr Asp Asp
 20 25 30
 Asp Met Thr Val Ile Glu Gly Lys Arg Asp Gln Leu Val Gly Lys Ile
 35 40 45
 Gln Glu Arg Tyr Gly Tyr Glu Lys Asp Gln Ala Glu Asn Glu Val Lys
 50 55 60
 Asp Trp Glu Thr Arg Asn Asp Tyr Arg Trp
 65 70 75

<210> 9551

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 9551

Ser Phe Asp Pro Leu Phe Ile Ser Val Thr Pro Phe Thr Met Ala Gly
 1 5 10 15
 Asn Lys Pro Phe Asn Lys Gln Thr Glu Pro Arg Glu Arg Asp Tyr Gln
 20 25 30
 Val Ala Gly Leu Lys Val Pro Pro His Ser Ile Glu Ala Glu Gln Ser
 35 40 45
 Val Leu Gly Gly Leu Met Leu Asp Asn Glu Arg Trp Asp Asp Val Ala
 50 55 60
 Glu Arg Val Val Ala Glu Asp Phe Tyr Thr Arg Pro His Arg His Ile
 65 70 75 80
 Phe Thr Glu Met Ala Arg Leu Gln Glu Ser Gly Ser Pro Ile Asp Leu
 85 90 95
 Ile Thr Leu Ala Glu Ser Leu Glu Arg Leu Gly Gln Leu Asp Ser Val
 100 105 110
 Gly Gly Phe Ala Tyr Leu Ala Glu Leu Ser Lys Asn Thr Pro Ser Ala
 115 120 125
 Ala Asn Ile Ser Ala Tyr Ala Asp Ile Val Arg Glu Arg Ala Val Val
 130 135 140
 Arg Glu Met Ile Ser Val Ala Asn Glu Ile Ala Glu Ala Gly Phe Asp
 145 150 155 160
 Pro Gln Gly Arg Thr Ser Glu Asp Leu Leu Asp Leu Ala Glu Ser Arg
 165 170 175
 Val Phe Lys Ile Ala Glu Ser Arg Ala Asn Lys Asp Glu Gly Pro Lys
 180 185 190
 Asn Ile Ala Asp Val Leu Asp Ala Thr Val Ala Arg Ile Glu Gln Leu
 195 200 205
 Phe Gln Gln Pro His Asp Gly Val Thr Gly Val Asn Thr Gly Tyr Asp
 210 215 220
 Asp Leu Asn Lys Lys Thr Ala Gly Leu Gln Pro Ser Asp Leu Ile Ile
 225 230 235 240
 Val Ala Ala Arg Pro Ser Met Gly Lys Thr Thr Phe Ala Met Asn Leu
 245 250 255
 Val Glu Asn Ala Ala Met Leu Gln Asp Lys Pro Val Leu Ile Phe Ser
 260 265 270
 Leu Glu Met Pro Ser Glu Gln Ile Met Met Arg Ser Leu Ala Ser Leu
 275 280 285
 Ser Arg Val Asp Gln Thr Arg Ile Arg Thr Gly Gln Leu Asp Asp Glu
 290 295 300
 Asp Trp Ala Arg Ile Ser Gly Thr Met Gly Ile Leu Leu Glu Lys Arg
 305 310 315 320

Asn Ile Tyr Ile Asp Asp Ser Ser Gly Leu Thr Pro Thr Glu Val Arg
 325 330 335
 Ser Arg Ala Arg Arg Ile Ala Arg Glu His Gly Gly Ile Glu Leu Ile
 340 345 350
 Met Ile Asp Tyr Leu Gln Leu Met Arg Val Pro Ser Leu Ser Asp Asn
 355 360 365
 Arg Thr Leu Glu Ile Ala Glu Ile Ser Arg Ser Leu Lys Ala Leu Ala
 370 375 380
 Lys Glu Leu His Val Pro Val Val Ala Leu Ser Gln Leu Asn Arg Ser
 385 390 395 400
 Leu Glu Gln Arg Ala Asp Lys Arg Pro Val Asn Ser Asp Leu Arg Glu
 405 410 415
 Ser Gly Ser Ile Glu Gln Asp Ala Asp Leu Ile Met Phe Ile Tyr Arg
 420 425 430
 Asp Glu Val Tyr His Glu Asn Ser Asp Leu Lys Gly Ile Ala Glu Ile
 435 440 445
 Ile Ile Gly Lys Gln Arg Asn Gly Pro Ile Gly Thr Val Arg Leu Thr
 450 455 460
 Phe Asn Gly Gln Trp Ser Arg Phe Asp Asn Tyr Ala Gly Pro Gln Tyr
 465 470 475 480
 Asp Asp Glu

<210> 9552

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 9552

Gln Thr Glu Tyr Ser Gly Glu Asn Met Arg Lys Ile Thr Leu Ala Leu
 1 5 10 15
 Ser Ala Ala Cys Leu Leu Phe Ser Leu Asn Ser Thr Val Val Ala Arg
 20 25 30
 Ala Ser Ala Pro Thr Pro Leu Tyr Thr Gly Thr Thr Ala Ala Ile Leu
 35 40 45
 Ala Glu Gln Ala Pro Ile His Trp Val Ser Val Ala Gln Ile Glu Asn
 50 55 60
 Ser Leu Thr Gly Arg Pro Pro Met Ala Val Gly Phe Asp Ile Asp Asp
 65 70 75 80
 Thr Val Leu Phe Ser Ser Pro Gly Phe Trp Arg Gly Lys Lys Thr Tyr
 85 90 95
 Ser Pro Asp Ser Glu Ala Tyr Leu Lys Asn Pro Glu Phe Trp Glu Lys
 100 105 110
 Met Asn Asn Gly Trp Asp Glu Phe Ser Ile Pro Lys Glu Val Ala Arg
 115 120 125
 Ala Leu Ile Ala Met His Val Lys Arg Gly Asp Ser Ile Tyr Phe Val
 130 135 140
 Thr Gly Arg Ser Gln Thr Lys Thr Glu Thr Val Ser Lys Thr Leu Gln
 145 150 155 160
 Asp Asp Phe Leu Ile Pro Ala Ala Ser Met Asn Pro Val Ile Phe Ala
 165 170 175
 Gly Asp Gln Glu Gly Gln Asn Thr Lys Thr Gln Trp Leu Glu Lys Lys
 180 185 190
 Asn Ile Lys Val Phe Tyr Gly Asp Ser Asp Asn Asp Ile Thr Ala Ala
 195 200 205
 His Asp Val Gly Ala Arg Gly Ile Arg Val Leu Arg Ala Ser Asn Ser
 210 215 220
 Thr Tyr Arg Pro Leu Pro Met Ala Gly Lys Phe Gly Glu Glu Val Ile
 225 230 235 240
 Val Asn Ser Glu Tyr
 245

<210> 9553
 <211> 128
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9553
 Asn Tyr Arg Asn Ala Thr Arg Gly Ile Lys Met Thr Ile Ser Glu Ile
 1 5 10 15
 Leu Gln Tyr Cys Met Ser Lys Pro Gly Ala Glu Gln Ser Val His Ser
 20 25 30
 Asp Trp Lys Ala Thr Gln Ile Lys Val Gly Asp Val Leu Phe Ala Met
 35 40 45
 Val Lys Glu Val Asp Ala Arg Pro Ala Ala Ser Leu Lys Thr Ser Pro
 50 55 60
 Glu Leu Ala Asp Leu Leu Arg Gln Gln His Asp Asp Val Arg Pro Ser
 65 70 75 80
 Lys His Leu Asn Lys Lys Ala His Trp Ser Thr Val Phe Leu Asp Gly Ser
 85 90 95
 Leu Pro Asp Ser Gln Ile Tyr Tyr Leu Val Asp Ala Ser Tyr Gln Gln
 100 105 110
 Ala Val Glu Leu Leu Pro Glu Thr Ile Arg Gln Gln Leu Ser Val
 115 120 125

<210> 9554
 <211> 196
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9554
 His His Arg Arg Ala Ala Arg Gln Phe Gln Arg Arg Phe Lys Gly Phe
 1 5 10 15
 Arg Gln Thr Arg Arg Gln Ile Phe Thr Asp Leu Lys Pro Val Asn His
 20 25 30
 His Phe Asp Gly Val Phe Leu Leu Gln Leu Gln Leu Trp Arg Ile Gly
 35 40 45
 Gln Val Thr His Phe Ala Val Asp Thr Gly Ala Asp Ile Ala Leu Ala
 50 55 60
 Cys Gln Ile Phe Gln Arg Phe Ser Met Phe Ala Leu Thr Leu Phe Asn
 65 70 75 80
 Asp Arg Arg Gln Gln His Gln Ala Phe Ala Phe Arg Leu Arg Gln His
 85 90 95
 Val Ile His His Leu Ala Asp Gly Leu Gly Arg Gln Arg Asn Val Val
 100 105 110
 Ile Arg Ala Ala Arg Leu Ala His Ala Arg Ile Gln Gln Thr Gln Val
 115 120 125
 Val Met Asp Phe Gly Asn Gly Thr Asp Arg Gly Ser Arg Val Met Arg
 130 135 140
 Arg Gly Phe Leu Leu Asn Gly Asp Ser Arg Arg Gln Pro Phe Asn Val
 145 150 155 160
 Val Asp Ile Arg Phe Phe His Gln Arg Gln Glu Leu Thr Arg Val Arg
 165 170 175
 Arg Glu Arg Phe Asn Val Thr Thr Leu Ser Phe Gly Ile Gln Ser Val
 180 185 190
 Glu Ser Gln
 195

<210> 9555
 <211> 550
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9555

Phe Met Gln Arg Asn His Leu Phe Ile Lys Ala Ala Gly Leu His Cys
 1 5 10 15
 Tyr Arg Arg Thr Thr Cys Arg Asp Thr Glu Arg Glu Met Asn Arg Ser
 20 25 30
 Ala Arg Arg Lys Met Leu Lys Val Val Gly Ile Ile Met Val Val Met
 35 40 45
 Leu Pro Val Met Leu Ala Leu Trp Phe Ala Gln Leu Ser Ala Val Ser
 50 55 60
 Glu Ile Ser Ala Gln Leu Arg Thr Phe Ala Glu Leu Ala Leu Asn Lys
 65 70 75 80
 Thr Glu Arg Val Ile Gln Gln Val Asp Leu Ala Arg Lys Asp Ala Glu
 85 90 95
 Lys Tyr Gln Gly Lys Val Cys Thr Pro Glu His Arg Gln Tyr Met Leu
 100 105 110
 Asn Val Ser Arg Gly Arg Leu Phe Val Ala Asp Leu Ile Tyr Ala Asp
 115 120 125
 Gly Gln Asp Phe Leu Cys Ser Thr Leu Phe Thr Pro Glu His Pro Tyr
 130 135 140
 Ile Ile Pro Ala Ala Asn Tyr Thr Arg Lys Pro Asp Val Ala Ile Tyr
 145 150 155 160
 Tyr Phe Arg Asp Thr Pro Phe Phe Asn Gly Tyr Lys Met Ile Tyr Met
 165 170 175
 Gln Arg Gly Asn Tyr Val Ala Val Val Asn Pro Leu Ser Tyr Ser Glu
 180 185 190
 Val Met Ser Asp Asp Arg Ser Leu Ser Trp Gly Val Tyr Asp Thr Val
 195 200 205
 Ser Asn Ala Phe Phe Ser Val Ser Gln Lys Ala Asn Ile Ser Leu Leu
 210 215 220
 His Ser Met Leu Arg His Gln Glu Thr Thr Phe Gln Lys Asp Asp Arg
 225 230 235 240
 Phe Tyr Thr Ile Val Lys Ser Glu Gln Arg Pro Ile Ala Ala Ile Val
 245 250 255
 Ser Thr Ser Ser Ala Arg Phe Tyr Lys Thr Leu Tyr His Gln Ala Thr
 260 265 270
 Leu Thr Leu Pro Leu Gly Ile Ile Cys Ser Ile Ile Ile Leu Leu Val
 275 280 285
 Trp Ser Arg Thr His Arg Glu Phe Asn Ser Pro Gly Arg Leu Leu His
 290 295 300
 Arg Ala Leu Asn Lys Arg Gln Leu Cys Val His Tyr Gln Pro Ile Ile
 305 310 315 320
 Asp Ile Lys Asn Asn Gln Cys Val Gly Ala Glu Ala Leu Leu Arg Trp
 325 330 335
 Pro Gly Phe Asn Gly Gln Val Met Ser Pro Ala Glu Phe Ile Pro Leu
 340 345 350
 Ala Glu Lys Glu Gly Met Ile Glu Arg Ile Thr Asp Tyr Val Val Glu
 355 360 365
 Glu Val Phe Ser Asp Leu Gly His Phe Leu Ala Ala His Pro Asp Leu
 370 375 380
 Tyr Val Ser Ile Asn Leu Ser Ala Ser Asp Phe His Ser Ser Arg Leu
 385 390 395 400
 Ile Ala Leu Ile Ser Asp Lys Ala Arg Phe Tyr Ser Val Arg Ala Gln
 405 410 415
 Gln Ile Lys Ile Glu Val Thr Glu Arg Gly Phe Ile Asp Val Pro Lys
 420 425 430
 Thr Thr Pro Val Ile Gln Ala Phe Arg Gln Ala Gly Tyr Glu Val Ala
 435 440 445
 Ile Asp Asp Phe Gly Thr Gly Tyr Ser Asn Leu His Asn Leu Tyr Ser
 450 455 460
 Leu Asn Val Asp Ile Leu Lys Ile Asp Lys Ser Phe Ile Asp Thr Leu

465 470 475 480
 Thr Thr Asn Ser Thr Ser His Leu Ile Ala Glu His Ile Ile Glu Met
 485 490 495
 Ala Gln Ser Leu Arg Leu Lys Thr Ile Ala Glu Gly Val Glu Thr Gly
 500 505 510
 Glu Gln Val Ser Trp Leu Leu Lys Arg Gly Val Gln Tyr Cys Gln Gly
 515 520 525
 Trp His Phe Ala Lys Ala Met Pro Pro Gln Ala Phe Met Ala Trp Gln
 530 535 540
 Gln Gln Pro Leu Arg
 545 550

<210> 9556

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 9556

Phe Ile Ser Val Asp Thr Val Arg Ser Leu Tyr Trp Arg Leu Val Ser
 1 5 10 15
 Phe Leu Arg Lys Thr Pro Met Ala Val Ala Leu Ser Arg Val Thr Pro
 20 25 30
 Ala Val Val Gln Arg Leu Gln Val Pro Val Gln Val Leu Leu Tyr Ala
 35 40 45
 Gly Leu Phe Val Phe Ala Glu Tyr Leu Val Asp Trp Leu His Leu Pro
 50 55 60
 Leu Pro Ala Asn Leu Val Gly Met Val Leu Met Leu Thr Leu Ile Leu
 65 70 75 80
 Cys Arg Ala Leu Pro Leu Asn Trp Val Arg Ala Gly Ala Arg Trp Leu
 85 90 95
 Leu Ala Glu Met Leu Leu Phe Phe Val Pro Ala Val Val Ala Val Val
 100 105 110
 Asn Tyr Ala Gln Leu Leu Met Val Asp Gly Trp Arg Ile Phe Ala Val
 115 120 125
 Ile Ala Leu Ser Thr Leu Met Val Leu Gly Ala Thr Ala Trp Val Val
 130 135 140
 Asp Lys Val Tyr Arg Phe Glu Ile Ser Arg Gln Lys His Asp
 145 150 155

<210> 9557

<211> 511

<212> PRT

<213> Enterobacter cloacae

<400> 9557

Arg Leu Asn Ile Asn Asp Ala Gly Leu Ala Lys Ile Ser Ser Ser Val
 1 5 10 15
 Pro Leu Val Val Ser Phe Leu Ile Leu Ile Ser Lys Asp Trp Thr Phe
 20 25 30
 Ile Arg His Ile Ser Ala Ser Phe Leu Leu Ile Ile Cys Leu Ser Gly
 35 40 45
 Ser Lys Glu Thr Gly Glu Ile Met Leu Thr Phe Leu Glu Leu Leu Ile
 50 55 60
 Gly Val Val Val Ile Val Gly Val Ala Arg Tyr Ile Ile Lys Gly Tyr
 65 70 75 80
 Ser Ala Thr Gly Val Leu Phe Val Gly Gly Leu Thr Leu Leu Ile Ile
 85 90 95
 Ser Ala Leu Met Gly His Gln Val Leu Pro Ala Ser Glu Ala Ser Thr
 100 105 110
 Gly Tyr Thr Ala Thr Asp Ile Val Glu Tyr Ile Lys Ile Leu Leu Met
 115 120 125

Ser Arg Gly Gly Asp Leu Gly Met Met Ile Met Met Leu Cys Gly Phe
 130 135 140
 Ala Ala Tyr Met Thr His Ile Gly Ala Asn Asp Met Val Val Lys Leu
 145 150 155
 Ala Ser Lys Pro Leu Gln Tyr Ile Asn Ser Pro Tyr Leu Leu Met Val
 165 170 175
 Ala Ala Tyr Phe Leu Ala Cys Leu Met Ser Leu Ala Val Ser Ser Ala
 180 185 190
 Thr Gly Leu Gly Val Leu Leu Met Ala Thr Leu Phe Pro Val Met Val
 195 200 205
 Asn Val Gly Ile Ser Arg Gly Ala Ala Ala Ala Ile Cys Ala Ser Pro
 210 215 220
 Ala Ala Ile Ile Leu Ser Pro Thr Ser Gly Asp Val Val Leu Ala Ala
 225 230 235
 Lys Ala Ala Glu Met Ser Leu Ile Asp Phe Ala Phe Lys Thr Thr Leu
 245 250 255
 Pro Ile Ser Ile Thr Ala Ile Leu Gly Met Gly Val Ala His Phe Phe
 260 265 270
 Trp Gln Arg Tyr Leu Asp Lys Lys Glu Asn Val Ser His Glu Met Met
 275 280 285
 Asp Val Ser Glu Ile Thr Thr Thr Ala Pro Ala Phe Tyr Ser Ile Leu
 290 295 300
 Pro Phe Met Pro Ile Ile Gly Val Leu Ile Phe Asp Gly Lys Trp Gly
 305 310 315
 Pro Gln Leu His Ile Ile Thr Ile Leu Val Ile Cys Met Leu Leu Ala
 325 330 335
 Ala Ile Leu Glu Phe Val Arg Gly Phe Asn Thr Gln Lys Val Phe Thr
 340 345 350
 Gly Leu Glu Val Ala Phe Arg Gly Met Ala Asp Ala Phe Ala Gly Val
 355 360 365
 Val Met Leu Leu Val Ala Ala Gly Val Phe Ala Gln Gly Leu Ser Thr
 370 375 380
 Ile Gly Phe Ile Gln Ser Leu Ile Ser Ile Ala Thr Ser Phe Gly Ser
 385 390 395
 Ala Ser Ile Ile Leu Met Leu Val Leu Val Val Leu Thr Met Leu Ala
 405 410 415
 Ala Met Thr Thr Gly Ser Gly Asn Ala Pro Phe Tyr Ala Phe Val Glu
 420 425 430
 Met Ile Pro Lys Leu Ala His Ser Ser Gly Ile Asn Pro Ala Tyr Leu
 435 440 445
 Ser Ile Pro Met Leu Gln Ala Ser Asn Leu Gly Arg Thr Ile Ser Pro
 450 455 460
 Val Ser Gly Val Val Val Ala Val Ala Gly Met Ala Lys Ile Ser Pro
 465 470 475
 Phe Glu Val Val Lys Arg Thr Ser Val Pro Val Leu Val Gly Leu Ile
 485 490 495
 Ile Val Ile Ile Ala Thr Glu Val Leu Val Pro Gly Ala Ala
 500 505 510

<210> 9558

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 9558

Ser Trp Arg Tyr Leu Gln Glu Glu Phe His Met Ala Lys Lys Leu Ile
 1 5 10 15
 Ala Leu Cys Ala Cys Pro Met Gly Leu Ala His Thr Phe Met Ala Ala
 20 25 30
 Gln Ala Leu Glu Asp Ala Ala Thr Glu Ala Gly Tyr Glu Val Lys Ile
 35 40 45

Glu Thr Gln Gly Ala Asp Gly Ile Gln Asn Arg Leu Thr Pro Gln Asp
 50 55 60
 Ile Ala Asp Ala Asp Ile Ile Ile His Ala Ile Ala Ile Thr Pro Glu
 65 70 75 80
 Asp Asn Glu Arg Phe Glu Met Arg Asp Val Tyr Glu Ile Thr Leu Gln
 85 90 95
 Asp Ala Ile Lys Asn Ala Ala Gly Thr Leu Lys Glu Ile Glu Glu Met
 100 105 110
 Ile Ala Ala Glu Gln
 115

<210> 9559

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 9559

Ser Ser His Pro Gly Val Phe Val Met Ala Ile Lys Lys Arg Ser Ala
 1 5 10 15
 Val Arg Pro Asp Ser His Glu Gly Asp Thr Leu Ala Ile Lys Ser Ala
 20 25 30
 Pro Val Ala Ala Gly Ala Ser Phe Trp Lys Glu Leu Pro Gln His Ile
 35 40 45
 Met Ser Gly Ile Ser Arg Met Val Pro Thr Leu Ile Met Gly Gly Val
 50 55 60
 Ile Leu Ala Ile Ser Gln Leu Ile Ala Tyr Val Trp Leu Glu Ile Pro
 65 70 75 80
 Pro Asp Thr Gly Ile Leu Asp Ala Leu Asn Ser Gly Lys Phe Thr Gly
 85 90 95
 Phe Asn Leu Ser Leu Leu Lys Phe Gly Tyr Leu Thr Glu Ser Phe Gly
 100 105 110
 Gly Leu Leu Phe Ser Phe Ala Ile Pro Met Phe Ala Ala Phe Val Ala
 115 120 125
 Asn Ser Ile Gly Gly Lys Leu Ala Phe Pro Ala Gly Phe Ile Gly Gly
 130 135 140
 Leu Val Ala Thr Gln Pro Thr Leu Val Leu Asn Phe Asp Ala Glu Lys
 145 150 155 160
 Leu Thr Trp Leu Ala Thr Lys Pro Val Pro Ser Thr Phe Ile Gly Ala
 165 170 175
 Leu Ile Ile Ala Ile Ala Ala Gly Tyr Leu Val Lys Trp Leu Asn Ser
 180 185 190
 Arg Ile Asn Val Pro Gln Tyr Leu Ala Phe Lys Ser Thr Phe Leu
 195 200 205
 Ile Pro Ile Leu Ser Ala Leu Phe Val Met Leu Ala Met Tyr Tyr Ile
 210 215 220
 Ile Thr Pro Ile Gly Gly Trp Leu Asn Ala Gly Met Arg Thr Val Leu
 225 230 235 240
 Leu Ala Ala Gly Gln Ala Gly Ser Met Met Tyr Ala Ile Gly Met Ala
 245 250 255
 Ala Ala Thr Ala Ile Asp Leu Gly Gly Pro Ile Asn Lys Ala Ala Gly
 260 265 270
 Phe Val Gly Leu Gly Leu Thr Thr Asp His Val Leu Pro Ile Thr Ser
 275 280 285
 Arg Ala Val Ala Ile Val Ile Pro Pro Ile Gly Leu Gly Leu Ala Thr
 290 295 300
 Leu Ile Asp His Arg Leu Thr Gly Lys Arg Leu Phe Ser Pro Gln Leu
 305 310 315 320
 Tyr Pro Gln Gly Lys Thr Ala Met Phe Leu Ala Phe Met Gly Ile Ser
 325 330 335
 Glu Gly Ala Ile Pro Phe Leu Leu Glu Asn Pro Leu Ala Thr Leu Pro
 340 345 350

Ala Tyr Met Ala Gly Ala Ile Ala Gly Ala Met Thr Ala Thr Ala Leu
 355 360 365
 Gly Ala Val Gln Trp Phe Pro Glu Ser Ala Ile Trp Ala Trp Pro Leu
 370 375 380
 Val Thr Asn Leu Gly Ala Tyr Met Leu Ser Ile Val Val Gly Ala Ala
 385 390 395 400
 Ile Thr Ala Leu Leu Val Val Ile Ile Arg Asn Ser Leu His Lys Arg
 405 410 415
 Gly Lys Leu Ala Ile Asp Thr Leu
 420 425

<210> 9560

<211> 374

<212> FRT

<213> Enterobacter cloacae

<400> 9560

Arg Cys Gly Ala Gly Asp Gly Asn Gly Arg Arg Gly Ala Leu Tyr Leu
 1 5 10 15
 Arg Gln Thr Ala Ile Ala Asp Gly Arg Ile Arg Val Asp Arg Asp Leu
 20 25 30
 Leu Arg Ala Leu Ser Glu Ala Asp Ala Ile Ala Ala Ser Glu Gln Glu
 35 40 45
 Val Arg Asp Ile Leu Leu Ser Glu Ala Gln Lys Tyr His Lys Glu Val
 50 55 60
 Gln Phe Asp Gly Leu Gly Ser Val Leu Ile Arg Val Asn Gln Ser Arg
 65 70 75 80
 Gly Pro Lys Val Met Val Cys Ala His Met Asp Glu Val Gly Phe Met
 85 90 95
 Val Arg Ser Val Ser Arg Glu Gly Ala Ile Asp Val Leu Pro Ile Gly
 100 105 110
 Asn Val Arg Met Met Ala Arg Thr Leu Gln Pro Val Arg Ile Thr Thr
 115 120 125
 Arg Asn Gly Glu Lys Ile Pro Gly Leu Leu Asp Gly Asp Leu Lys Gly
 130 135 140
 Glu Asn Val Asp Asn Leu Arg Val Asp Ile Gly Ala Thr Ser Ala Glu
 145 150 155 160
 Glu Val Phe Ala Ala Gly Ile Asp Ala Gly Asp Arg Val Thr Phe Asp
 165 170 175
 Thr Pro Phe Gln Thr Leu Pro His Asn Arg Val Met Gly Lys Ala Phe
 180 185 190
 Asp Asp Arg Leu Gly Cys Tyr Leu Leu Ile Ala Leu Leu Arg Glu Leu
 195 200 205
 His Gln Thr Pro Leu Asp Cys Glu Leu Trp Leu Val Ala Ser Ser Ser
 210 215 220
 Glu Glu Val Gly Leu Arg Gly Gly Gln Thr Ala Thr Arg Ala Ile His
 225 230 235 240
 Pro Asp Ile Ala Leu Val Leu Asp Thr Ala Cys Trp Ser Lys Asn Phe
 245 250 255
 Asp Tyr Gly Ser Ala Asn His Arg Gln Ile Gly Ala Gly Pro Met Leu
 260 265 270
 Val Leu Tyr Asp Lys Thr Leu Ile Ala Pro Ala Lys Leu Ile Ala Leu
 275 280 285
 Ala Glu Thr Ile Ala Arg Ser Gln Gly Ile Pro Leu Gln Lys Asp Met
 290 295 300
 Phe Ser Asn Gly Gly Thr Asp Gly Gly Ala Ile His Leu Ser Gly Thr
 305 310 315 320
 Gly Val Pro Thr Leu Val Leu Gly Pro Pro Thr Arg His Gly His Cys
 325 330 335
 Ala Ala Ser Ile Ala Asp Glu Lys Asp Ile His His Thr Gln Gln Leu
 340 345 350

Leu Val Ala Leu Val Ala Gly Met Asn Arg Glu Thr Val Asp His Leu
 355 360 365
 Thr Asp Phe Arg Cys
 370

<210> 9561

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 9561

Leu Pro Ser Val Val Leu Gln Asp Gly Ile Thr Thr Ala Asn Ser Thr
 1 5 10 15
 His Ser Gly Arg Asn Met Ala Asn Leu Tyr Asp Leu Lys Lys Phe Asp
 20 25 30
 Leu Asn Leu Leu Val Ile Phe Glu Cys Ile Tyr Gln His Leu Ser Ile
 35 40 45
 Ser Arg Ala Ala Glu Thr Leu Tyr Ile Thr Pro Ser Ala Val Ser Gln
 50 55 60
 Ser Leu Gln Arg Leu Arg Gly Gln Leu Asn Asp Pro Leu Phe Ile Arg
 65 70 75 80
 Ser Gly Lys Gly Ile Thr Pro Thr Thr Val Gly Thr Asn Leu His His
 85 90 95
 His Leu Glu Lys Asn Leu Asn Gln Leu Glu Gln Thr Ile Asn Met Met
 100 105 110
 His His Ser Asp Ile Lys Lys Lys Phe Val Ile Tyr Cys Ser Gln Met
 115 120 125
 Val Ser Pro Gly Ser Met Leu Glu Pro Leu Lys Leu Leu Ile Ser Glu
 130 135 140
 Glu Asn Tyr Glu Ile Glu Gln Arg Asp Met Leu Ile Ser Ser Glu Ser
 145 150 155 160
 Ala Glu Asp Leu Leu Ala Tyr Arg Lys Ala Asp Leu Ile Phe Ser Ile
 165 170 175
 Ala Pro Ile His Asn Arg Ser Val Val Cys Thr His Phe Thr Thr Val
 180 185 190
 Pro Ile Ala Leu Ile Cys Arg Ala Asp His Pro Arg Leu Ala Asp Ala
 195 200 205
 Val Thr Leu Glu Val Leu Tyr Gln Glu Lys Phe Thr Phe Tyr Gln Ser
 210 215 220
 Ala His Pro Gly Val Lys Glu Phe Gln Ser Arg Ala Asn Asp Ala Phe
 225 230 235 240
 Pro Glu Arg Asn Ile Ala Phe Arg Thr Asp Ser Leu Ser Ser Ile
 245 250 255
 Ser Met Val Cys Ser Ser Asp Leu Leu Gly Phe Ile Pro Val Ser Ile
 260 265 270
 Tyr Glu Thr Tyr Lys Glu Pro Leu Lys Leu Lys Arg Leu Glu Pro Pro
 275 280 285
 Phe Glu Leu Pro Glu Leu Lys Ile Tyr Met Leu Tyr Ser Arg Ser Ser
 290 295 300
 Leu Asn Ser Thr Val Phe Ser Thr Phe Ile Glu Lys Met His Lys Leu
 305 310 315 320
 Cys Val Ser Pro Pro Ser Ala
 325

<210> 9562

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 9562

Lys Glu Met Thr Asp Asn Leu Gln Leu Thr His Leu Val Glu Ala Cys

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1           5           10           15
Arg Trp Ile Gly Ala Lys Gly Trp Ala Pro Ala Thr Gly Gly Asn Met
20           25           30
Ser Met Arg Gln Asp Glu His Leu Cys Trp Leu Ser Glu Ser Gly Lys
35           40           45
Asp Lys Gly Ser Leu Thr Thr Ala Asp Phe Leu Gln Val Glu Ile Ala
50           55           60
Thr Asn Arg Ala Pro Ser Gly Arg Lys Pro Ser Ala Glu Thr Gly Leu
65           70           75
His Thr Leu Ile Tyr Arg Leu Phe Pro Glu Ala Asn Ala Val Leu His
85           90           95
Val His Thr Val Asn Ala Thr Val Leu Ser Arg Leu Val Asn Glu Ala
100          105          110
Glu Leu Lys Ile Thr Gly Phe Glu Met Gln Lys Ser Leu Thr Gly Gln
115          120          125
Thr Thr His Arg Asp Thr Val Ala Ile Pro Val Phe Asp Asn Asp Gln
130          135          140
Asp Ile Asp Ala Leu Ala Ser Arg Ile Ala His Tyr Ala Gln Glu Arg
145          150          155
Pro Leu Asn Tyr Gly Phe Leu Leu Arg Gly His Gly Leu Thr Cys Trp
165          170          175
Gly Arg Asp Val Ala Glu Ala Arg Arg His Leu Glu Gly Leu Glu Phe
180          185          190
Leu Phe Glu Cys Glu Met Arg Leu Arg Gln Trp Glu Arg Val
195          200          205

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<210> 9563

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 9563

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Cys Leu His Val Val Asn Ser Leu Leu Arg Cys Cys Ser Thr Leu Cys
1           5           10           15
Gln Asp Glu Ile Gln Met Tyr Arg Arg Leu His Val Leu Ile Ser Lys
20           25           30
Thr Glu Glu Gln Ala Met Ser Gln Tyr Arg Thr Phe Thr Ala Gln Asp
35           40           45
Ala Val Glu Tyr Ala Arg Gln Phe Gly Gly Leu Asp Asp Pro Ser Ser
50           55           60
Leu Val Glu Ala Gln Glu Val Gly Asp Gly Asn Leu Asn Leu Val Phe
65           70           75
Lys Ile Phe Asp Ser Ala Gly Val Ser Arg Ile Val Val Lys Gln Ala
85           90           95
Leu Pro Tyr Val Arg Cys Val Gly Glu Ser Trp Pro Leu Thr Leu Asp
100          105          110
Arg Ala Arg Leu Glu Ala Gln Thr Leu Val Glu His Tyr Gln His Ser
115          120          125
Pro Gln His Thr Val Lys Ile His His Phe Asp Pro Glu Leu Ala Val
130          135          140
Met Val Met Glu Asp Leu Ser Ser His Arg Ile Trp Arg Gly Glu Leu
145          150          155
Ile Arg Asn Asn Tyr Tyr Pro Gln Ala Ala Arg Gln Leu Gly Glu Tyr
165          170          175
Leu Ala His Thr Leu Phe His Thr Ser Asp Phe Tyr Leu His Pro His
180          185          190
Glu Lys Lys Ala Gln Val Ala Lys Phe Ile Asn Pro Glu Met Cys Glu
195          200          205
Ile Thr Glu Asp Leu Phe Phe Asn Asp Pro Tyr Gln Ile His Ala Arg
210          215          220
Asn Ser Tyr Pro Ala Glu Leu Glu Asn Asp Val Ala Ala Leu Arg Asp

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225 230 235 240
 Asp Ala Gln Leu Lys Ile Ala Val Ala Ser Leu Lys His Arg Phe Phe
 245 250 255
 Ser His Ala Glu Ala Leu Leu His Gly Asp Ile His Ser Gly Ser Ile
 260 265 270
 Phe Val Ala Asp Gly Ser Leu Lys Ala Ile Asp Ala Glu Phe Gly Tyr
 275 280 285
 Phe Gly Pro Ile Gly Phe Asp Val Gly Thr Ala Ile Gly Asn Leu Leu
 290 295 300
 Leu Asn Phe Cys Gly Leu Pro Gly His Leu Gly Ile Arg Asp Ala Ala
 305 310 315 320
 Ala Ala Arg Glu Gln Arg Leu Thr Asp Ile Gln Glu Leu Trp Asn Thr
 325 330 335
 Phe Ala Glu Arg Phe Gln Val Leu Ala Asn Glu Lys Ala Arg Asp Ala
 340 345 350
 Ala Leu Ser Ala Pro Gly Tyr Ala Ser Ala Phe Leu Lys Lys Val Trp
 355 360 365
 His Asp Ala Ile Gly Phe Cys Gly Thr Glu Leu Ile Arg Arg Ser Val
 370 375 380
 Gly Leu Ser His Val Ala Asp Ile Asp Thr Ile Gln Asp Glu Ala Met
 385 390 395 400
 Arg His Glu Cys Leu Arg His Ala Ile Ser Leu Gly Lys Ala Leu Ile
 405 410 415
 Val Ile Ala Asp Arg Ile Asp Ser Ala Glu Glu Leu Val Ala Arg Val
 420 425 430
 Arg Gln Tyr Ser
 435

<210> 9564

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 9564

Arg Leu Leu Lys Lys Asp Asn Phe Met Ser Asn Thr Asp Ile Arg Val
 1 5 10 15
 Val Pro Gly Pro Ala Asn Tyr Phe Ser His Pro Gly Ser Leu Ala His
 20 25 30
 Leu Asp Asn Phe Phe Thr Pro Glu Gln Leu Ser Arg Ala Val Trp Ile
 35 40 45
 Tyr Gly Glu Arg Ala Ile Glu Gly Ala Arg Pro Tyr Leu Pro Gln Ser
 50 55 60
 Phe Asn Ala Thr Gly Ala Lys His Leu Leu Phe Lys Gly His Cys Ser
 65 70 75 80
 Glu Arg Asp Val Thr Arg Leu Val Asn Glu Ser Gly Ser Glu Thr Ser
 85 90 95
 Val Val Ile Gly Val Gly Gly Gly Ala Val Met Asp Thr Val Lys Ala
 100 105 110
 Val Ala Arg Arg Leu Gly Val Pro Phe Val Gly Ile Pro Thr Ile Ala
 115 120 125
 Ala Thr Cys Ala Ala Trp Thr Pro Leu Ser Val Trp Tyr Asn Asp Ala
 130 135 140
 Gly Gln Ala Leu Gln Phe Glu Ile Phe Asp Asp Ala Asn Phe Leu Val
 145 150 155 160
 Leu Val Glu Pro Gln Ile Ile Leu Asn Ala Pro Ala Glu Tyr Leu Leu
 165 170 175
 Ala Gly Ile Gly Asp Thr Leu Ala Lys Trp Tyr Glu Ala Ala Val Leu
 180 185 190
 Ala Pro Gln Pro Glu Ser Leu Pro Leu Thr Val Arg Leu Gly Leu Asn
 195 200 205
 Gly Ala Leu Ala Ile Arg Asp Val Leu Leu Glu Arg Ser Glu Glu Ala

```

      210              215              220
Leu Ala Asp Gln Gln Arg Gly Glu Gln Thr Gln Ala Phe Arg Asp Val
225              230              235              240
Val Asp Ala Ile Ile Ala Gly Gly Gly Met Val Gly Gly Leu Gly Glu
      245              250              255
Arg Tyr Thr Arg Val Ala Ala Ala His Ala Val His Asn Gly Leu Thr
      260              265              270
Val Leu Pro Gln Thr Glu Lys Tyr Leu His Gly Thr Lys Val Ala Tyr
      275              280              285
Gly Ile Leu Val Gln Ser Ala Leu Leu Gly Gln Asp Asp Val Leu Ala
      290              295              300
Gln Leu Val Ala Ala Tyr Arg Arg Phe Asn Leu Pro Ile Thr Leu Arg
      305              310              315              320
Glu Leu Asp Val Asp Ile His Asn Arg Asp Glu Leu Asp Lys Val Ile
      325              330              335
Gly His Thr Leu Arg Pro Val Glu Ser Ile His Tyr Leu Pro Val Thr
      340              345              350
Leu Thr Pro Glu Val Leu Arg Ala Ala Phe Ala Lys Val Glu Ser Phe
      355              360              365
Ser Arg
      370

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<210> 9565

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 9565

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Leu Arg Arg Arg Ala Ile Pro Asn Asp Asp Ser Leu His Ser Cys Asn
1              5              10              15
Glu Val Ile Met Gln Ile Asp Leu Ser Gly Lys Lys Ala Leu Val Thr
      20              25              30
Gly Ala Ser Arg Gly Leu Gly Arg Ala Ile Ala Leu Ser Leu Ala Arg
      35              40              45
Ala Gly Ala Asp Val Val Ile Thr Tyr Glu Lys Ser Val Asp Lys Ala
      50              55              60
Gln Ala Val Ala Asp Glu Ile Lys Ala Leu Gly Arg His Gly Glu Ala
      65              70              75              80
Ile Gln Ala Asp Ser Ala Ser Ala Gln Ala Ile Gln Asp Ala Val Thr
      85              90              95
Gln Ala Ala Arg Ser Leu Gly Gly Leu Asp Ile Leu Val Asn Asn Ala
      100              105              110
Gly Ile Ala Arg Gly Gly Pro Leu Glu Ser Met Thr Leu Ala Asp Ile
      115              120              125
Asp Ala Leu Ile Asn Val Asn Ile Arg Gly Val Val Ile Ala Ile Gln
      130              135              140
Glu Ala Leu Val His Met Ser Asp Gly Gly Arg Ile Ile Asn Ile Gly
      145              150              155              160
Ser Cys Leu Ala Asn Arg Val Ala Gln Pro Gly Ile Ala Val Tyr Ser
      165              170              175
Met Thr Lys Ser Ala Leu Asn Ser Leu Thr Arg Gly Leu Ala Arg Asp
      180              185              190
Leu Gly Pro Arg Gly Ile Thr Val Asn Leu Val His Pro Gly Pro Thr
      195              200              205
Asn Ser Asp Met Asn Pro Glu Asp Gly Glu Gln Ala Asp Ser Gln Arg
      210              215              220
Gln Leu Ile Ala Leu Gly His Tyr Gly Gln Pro Glu Asp Ile Ala Ala
      225              230              235              240
Ala Val Thr Phe Leu Ala Ser Pro Ala Ala Gly Gln Ile Ser Gly Thr
      245              250              255
Gly Leu Asp Val Asp Gly Gly Leu Asn Ala

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260

265

<210> 9566

<211> 124

<212> PRT

<213> *Enterobacter cloacae*

<400> 9566

```

Lys Phe Gly Ile Tyr Leu Ile Val Leu Leu Phe Pro Tyr Ile Leu Cys
1           5           10           15
Gly Arg Thr Val Glu Val Arg Met Lys Ile Val Trp Ser Lys Thr Ala
20           25           30
Glu Lys Gln Phe Ser Lys Ile Asp Pro Arg Tyr Gln Asn Arg Ile Lys
35           40           45
Phe Arg Leu Glu Lys Met Asp Asp Lys Thr Ser Pro Val Ala Asp Ile
50           55           60
Lys Lys Leu Ser Ser Pro Glu Asn His Tyr Arg Leu Arg Leu Gly Asp
65           70           75           80
Tyr Arg Val Ile Tyr Thr Phe Gly Asp Pro Pro Gly Asp Ile Cys Tyr
85           90           95
Val Val Ala Val Lys Arg Arg Thr Thr Thr Thr Tyr Leu His Glu Glu
100          105          110
His Thr Glu Tyr Asp Tyr Ser Val His Gln Gly
115          120

```

<210> 9567

<211> 297

<212> PRT

<213> *Enterobacter cloacae*

<400> 9567

```

Tyr Pro Lys Ser Ala Cys Gly Arg Phe Leu Cys Phe Asn Asn Pro Gln
1           5           10           15
Lys Leu Ile Ala Pro Asn Gln Ser Gly Lys Gln Met Phe Arg Lys Asp
20           25           30
Ile Val Ile Pro Ser Gly Ala Val Ala Leu Cys Val Phe Ser
35           40           45
Ile Gln Ala Asp Pro Leu Lys Pro Thr Gln Tyr Gly Asp Phe Asp Arg
50           55           60
Tyr Val Leu Ala Leu Ser Trp Gln Thr Gly Phe Cys Gln Ser Met Val
65           70           75           80
Glu Arg Asn Arg Asp Glu Pro Glu Glu Cys Arg Leu Gln Lys Glu Ser
85           90           95
Ser Asn Lys Thr Asp Phe Leu Thr Val His Gly Leu Trp Pro Ala Leu
100          105          110
Pro Lys Ser Ile Ala Ala Arg Gly Val Asp Glu Arg Arg Trp Met Arg
115          120          125
Phe Gly Cys Ala Thr Arg Pro Val Pro Asn Met Pro Glu Ala Lys Ala
130          135          140
Ser Arg Lys Cys Asp Ala Ala Glu Thr Gly Leu Ser Leu Thr Gly Ala
145          150          155          160
Ala Lys Leu Asn Ser Val Met Pro Gly Ala Gly Gly Asn Ser Cys Leu
165          170          175
Glu Arg Tyr Glu Tyr Ala Lys His Gly Val Cys Phe Gly Phe Asp Pro
180          185          190
Asp Ala Tyr Phe Gly Thr Met Val Arg Met Asn Gln Glu Val Lys His
195          200          205
Ser Ala Ala Gly Lys Phe Leu Ala Glu Asn Tyr Gly Lys Ser Val Arg
210          215          220
Arg Ser Asp Phe Asp Ala Ala Val Ala Lys Ser Trp Gly Lys Gln Ser
225          230          235          240

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Val Lys Ala Phe Lys Leu Thr Cys His Gly Asn Pro Ala Tyr Leu Thr
 245 250 255
 Glu Met Gln Ile Ser Leu Asn Ala Ser Thr Ile Asn Asn Pro Leu Ser
 260 265 270
 Ala Gly Ser Phe Ala Pro Gln Pro His Pro Gly Asn Cys Gly Lys Gln
 275 280 285
 Phe Val Ile Asp Lys Ala Gly Tyr
 290 295

<210> 9568

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9568

Phe Arg Arg Pro Thr Pro Gly Val Leu Leu Gly Tyr Asp Lys Asp Leu
 1 5 10 15
 Ser Cys Arg Arg Ala Lys His Ala Ala Gly Gly Thr Pro Leu Tyr Ala
 20 25 30
 Val Tyr Gln Ile Val Leu Ala Ala Gln Gln Ala Ala Ile Asp Ala Ile
 35 40 45
 Arg Pro Gly Val Ser Cys His Gln Ile Asp Ser Ala Val Arg Ser Val
 50 55 60
 Ile Glu Arg Ala Gly Tyr Gly Pro Gln Phe Gly His Asn Thr Gly His
 65 70 75 80
 Ala Ile Gly Ile Asp Val His Glu Asn Pro Arg Phe Ser Pro Thr Asp
 85 90 95
 Arg Thr Pro Leu Gln Pro Gly Met Val Leu Thr Val Glu Pro Gly Ile
 100 105 110
 Tyr Leu Glu His Leu Gly Gly Val Arg Ile Glu Asp Val Val Leu Val
 115 120 125
 Thr Glu Thr Gly Ala Glu Val Leu Tyr Thr Phe Asp Lys Arg Leu Leu
 130 135 140
 Leu Thr Gly Glu
 145

<210> 9569

<211> 819

<212> PRT

<213> Enterobacter cloacae

<400> 9569

Arg Thr Ser Asp Ala Asp Leu Thr Arg Pro Gly Gly Ser Met Leu Ser
 1 5 10 15
 Ile Glu Phe Phe Cys Pro Leu Pro Asn Gly Leu His Ala Arg Pro Ala
 20 25 30
 Trp Ala Leu Lys Glu Gln Cys Ser Ala Trp Arg Ser Asp Ile Arg Phe
 35 40 45
 Ile Asn Arg Arg Leu His Thr His Ala Asp Ala Lys Ser Ser Leu Ala
 50 55 60
 Leu Ile Ser Thr Gly Thr Leu Phe Asn Asp Ser Cys Val Leu Glu Ile
 65 70 75 80
 Asn Gly Ser Asp Glu Gln Ala Arg Arg Val Leu Glu Ala Tyr Leu
 85 90 95
 Thr Gly Ala Phe Ile Asp Ser Asp Ser Ile Pro Ser Gly Asp Ala Pro
 100 105 110
 His Val Ala His Pro Leu Pro Arg Ser Leu Val Arg Leu Ala Pro His
 115 120 125
 Leu Gln His Gly Ile Thr Leu Ala Ser Gly Ile Gly Ala Gly Thr Leu
 130 135 140
 Arg Gly Trp Gln Ser Asp Asn Leu Lys Arg Tyr Cys Gln Ile Pro Ala

145		150		155		160									
Ser	Pro	Glu	Asp	Ile	Thr	Arg	Leu	Glu	His	Ser	Leu	Ala	Thr	Leu	Ala
				165					170					175	
Glu	Gln	Leu	Asn	Tyr	Arg	Leu	Arg	Gly	Leu	Asp	Gly	Glu	Ser	Lys	Thr
			180					185						190	
Ile	Leu	Ser	Ala	His	Leu	Ser	Leu	Ile	Gln	Asp	Glu	Glu	Phe	Gly	Gly
		195						200				205			
Thr	Ile	Arg	Arg	Leu	Ile	Ala	Glu	Glu	Arg	Leu	Ser	Leu	Ala	Glu	Ala
		210				215					220				
Ile	Ile	Arg	Asn	Met	Glu	Leu	Ile	Cys	Asp	Lys	Leu	Ser	Leu	Ser	Ala
225					230					235					240
Ser	Asp	Tyr	Leu	Arg	Glu	Arg	Val	Ser	Asp	Ile	Arg	Asp	Ile	Ser	Glu
			245						250					255	
Gln	Leu	Leu	Asn	Ile	Thr	Trp	Pro	Glu	Leu	Gln	Gln	Thr	Ser	Ala	Phe
			260					265					270		
Thr	Leu	Ser	Ala	Pro	Thr	Ile	Leu	Val	Ala	Glu	Asp	Leu	Thr	Pro	Ser
			275			280						285			
Gln	Phe	Leu	Ser	Leu	Asp	Thr	Gln	Tyr	Leu	Lys	Gly	Met	Val	Leu	Glu
			290			295					300				
Lys	Thr	Gly	Arg	Thr	Ser	His	Thr	Leu	Ile	Leu	Ala	Arg	Ala	Ala	Ser
305					310					315					320
Val	Pro	Val	Leu	Ser	Gly	Leu	Thr	Val	Ala	Ser	Leu	Ala	Pro	Leu	Met
			325						330					335	
Gly	Lys	Glu	Val	Ile	Leu	Asp	Gly	Ile	Cys	Ser	Val	Leu	Val	Val	Glu
			340					345					350		
Pro	Asn	Asp	Ala	Val	Asn	Asp	Tyr	Tyr	Ser	Val	Ala	Gln	Arg	Leu	Ala
		355				360						365			
Asp	Arg	Arg	His	Gln	Gln	Gln	Ile	Lys	Asp	Ala	Gly	Leu	Pro	Ala	Leu
		370				375					380				
Thr	Arg	Asp	Asn	Val	Pro	Val	Glu	Ile	Ala	Ala	Asn	Ile	Gly	Ser	Ala
385					390					395					400
Leu	Glu	Ala	Pro	Gly	Ala	Phe	Thr	Cys	Gly	Ala	Gln	Gly	Ile	Gly	Leu
			405						410					415	
Phe	Arg	Thr	Glu	Met	Leu	Tyr	Met	Asp	Arg	Asp	Thr	Ala	Pro	Asp	Glu
			420						425				430		
Gln	Glu	Gln	Phe	Glu	Ala	Tyr	Gln	Gln	Val	Leu	Leu	Ser	Ala	Gln	Gly
			435			440							445		
Lys	Pro	Val	Ile	Phe	Arg	Thr	Met	Asp	Ile	Gly	Gly	Asp	Lys	Gln	Ile
		450				455					460				
Pro	Tyr	Leu	Asn	Ile	Pro	Gln	Glu	Glu	Asn	Pro	Phe	Leu	Gly	Tyr	Arg
465					470					475					480
Ala	Val	Arg	Ile	Tyr	Pro	Glu	Phe	Ala	Asp	Leu	Phe	Arg	Thr	Gln	Leu
			485						490					495	
Arg	Ala	Ile	Leu	Arg	Ala	Gly	Ala	Ser	Gly	Asn	Ala	Leu	Leu	Met	Ile
			500						505				510		
Pro	Met	Val	His	Ser	Leu	Asp	Gln	Ile	Leu	Trp	Ile	Lys	Gln	Glu	Leu
		515				520						525			
Gln	Asn	Val	Arg	Asp	Ala	Leu	Ala	Ser	Gln	Gly	Leu	Arg	His	Thr	Ala
		530				535					540				
Arg	Leu	Pro	Leu	Gly	Ile	Met	Val	Glu	Val	Pro	Ser	Val	Cys	Phe	Ile
545					550					555					560
Ile	Asp	His	Phe	Cys	Glu	Glu	Val	Asp	Phe	Phe	Ser	Ile	Gly	Ser	Asn
			565						570					575	
Asp	Met	Thr	Gln	Tyr	Leu	Tyr	Ala	Val	Asp	Arg	Asn	Asn	Pro	Arg	Val
			580						585				590		
Ser	Gly	Leu	Tyr	Asn	Pro	Ile	Thr	Pro	Ser	Phe	Leu	Arg	Met	Val	Arg
		595				600						605			
Gln	Ile	Val	Thr	Ala	Ala	His	Arg	His	Gly	Lys	Trp	Val	Gly	Ile	Cys
		610				615					620				
Gly	Glu	Leu	Gly	Gly	Glu	Gln	Arg	Tyr	Leu	Pro	Leu	Leu	Gly	Leu	
625					630					635					640

Gly Leu Asp Glu Phe Ser Met Ser Gly Pro Arg Ile Pro Ala Val Lys
 645 650 655
 Thr Gln Leu Arg Gln Leu Asp Met Ala Thr Cys Arg Ala Leu Ala Asp
 660 665 670
 Lys Ala Cys Asp Ser Arg Ser Ala Glu Ile Glu Ala Leu Leu Ala
 675 680 685
 Asp Phe Thr Pro Glu Ala Pro Pro Arg Pro Leu Leu Ala Leu Glu Thr
 690 695 700
 Ile Val Val Asn Glu Pro Leu Thr Ser Lys Glu Gln Val Leu Gln Phe
 705 710 715 720
 Leu Cys Gly Asn Leu Ala Ile His Gly Arg Thr Gly Asn Pro Leu Glu
 725 730 735
 Leu Glu Glu Asp Leu Trp Gln Arg Glu Glu Ile Val Thr Thr Ala Val
 740 745 750
 Gly Phe Gly Val Ala Ile Pro His Thr Lys Ser Gln Trp Ile Arg His
 755 760 765
 Ser Ser Ile Ser Ile Ala Arg Leu Asp Lys Ala Ile Asp Trp Glu Ser
 770 775 780
 Asp Leu Gly Asp Val Glu Leu Val Ile Met Leu Thr Leu Gly Ala Gln
 785 790 795 800
 Glu Gly Ile Asn His Val Lys Val Phe Ser Pro Ala Gly Ala Glu Ala
 805 810 815
 Gly Gln

<210> 9570

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 9570

Arg His Gly Val Lys Met Ser Arg Pro Thr Ile Ile Ile Asn Glu Leu
 1 5 10 15
 Asp Ala Glu Arg Ile Asp Arg Leu Leu Glu Lys Pro Glu Phe Ala Ser
 20 25 30
 Leu Pro Val Ala Asp Ala Leu Asn Glu Glu Leu Asp Arg Ala Gln Met
 35 40 45
 Cys Thr Pro Glu Thr Met Pro His Asp Val Val Thr Met Asn Ser Gln
 50 55 60
 Val Lys Phe Arg Asn Leu Thr Thr Gly Glu Glu Leu Thr Arg Thr Leu
 65 70 75 80
 Val Tyr Pro Ala Gln Met Thr Asp Ser Ser Thr Gln Leu Ser Val Leu
 85 90 95
 Ala Pro Val Gly Ala Ala Leu Leu Gly Leu Arg Thr Gly Asp Thr Ile
 100 105 110
 His Trp Glu Leu Pro Gly Gly Ala Ser Ala His Leu Glu Val Leu Glu
 115 120 125
 Leu Phe Tyr Gln Pro Glu Ala Ala Gly Asp Tyr Leu Arg
 130 135 140

<210> 9571

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 9571

Thr Leu Ser Ala Leu Gln Arg Gln Ser Glu Ser Lys Thr Gln Gly Met
 1 5 10 15
 Gly Asp Phe Met Gln Gln Arg Ile Ile Thr Glu Met Glu Thr Tyr Leu
 20 25 30
 Gln Ala Leu Ser Glu Glu Glu Arg Ile Ala Ala Ile Asn Ala Phe Arg

```

      35              40              45
Gln Ala Leu His Glu Ile Ser Pro Phe Arg Asp Gln Pro Val Asp Cys
50              55              60
Val Leu Trp Ile Lys Lys Thr Asn Ile Thr Ala Asn Asp Tyr Asn Pro
65              70              75              80
Asn Asn Val Ala Pro Pro Glu Lys Arg Leu Leu Ser Lys Ser Leu Glu
      85              90              95
Leu Asp Gly Phe Thr Gln Pro Ile Val Val Thr Glu Asn Ala Pro Gln
100              105              110
His Tyr Glu Ile Val Asp Gly Phe His Arg His Asp Ile Gly Ser Asn
115              120              125
Arg Ala Ile Leu Lys Arg Gln Leu Lys Gly Tyr Leu Pro Val Thr Cys
130              135              140
Leu Arg Lys Ala Arg Gln Glu Lys Phe Asp Arg Met Ala Ala Thr Ile
145              150              155              160
Arg His Asn Arg Ala Arg Gly Arg His Gln Ile Asn Ala Met Ser Glu
      165              170              175
Ile Val Arg Glu Leu Val Leu Met Gly Trp Ser Glu Gln Lys Ile Gly
180              185              190
Gln Glu Leu Gly Met Asp Ser Asp Glu Val Leu Arg Leu Lys Gln Ile
195              200              205
Asn Gly Leu Leu Glu Leu Phe Ala Asp Arg Arg Phe Ser Glu Ala Trp
210              215              220
Thr Val Lys
225

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<210> 9572

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 9572

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Glu Ala Gln Leu Arg Gln Asn Arg His His Gln His Asp Asp His Asn
1      5      10      15
Gly Arg His Leu Pro Gln Gln Ala Glu Arg Arg Arg Asn Gly Pro Phe
20      25      30
Arg His Val Ala Ala Arg Gln His His Val Leu Ser Asn Arg Pro Ala
35      40      45
Val Ala Val Gly His Arg His Ala Leu Asp Asp Lys Gln Ala Gly Lys
50      55      60
Gly Arg Glu His Val Arg Asn Ala Gln Asp Asp Asp Gln Lys Arg Val
65      70      75      80
Lys Gln Ala Asp Gln Arg Thr Glu Arg Glu Ser Asp Tyr Asn Arg Leu
85      90      95
Gly Gly Ala Glu Ala Val Pro Asp Glu Glu Arg Asn His Gln Arg Val
100      105      110
Arg Gln Arg Arg Gly Gly Ser His Arg Glu Ile Glu Pro Ala Asp Gly
115      120      125
Gln Gly Asp Arg His Ala Asp Gly Asn His Arg His Asp Gly Asn Arg
130      135      140
Ala Gln Asn Val Asn Asp Val Val Arg Ile Glu Glu Ala Val Arg Arg
145      150      155              160
Gln Ala Lys Asn Gly His Gln Arg Asp Asp Gly Gln Gln His Ala Pro
165      170      175
Leu Val Glu Lys Ile Glu Asn Leu Leu Thr Ala Arg Arg Arg Arg Ala
180      185      190
His

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<210> 9573

<211> 277

<212> PRT

<213> *Enterobacter cloacae*

<400> 9573

```

Thr Met Glu Leu Leu Arg Arg Leu Arg Ala Trp Leu Ala Ala Glu Lys
1      5      10
Leu Asp Gly Val Leu Ile Ser Ser Arg Glu Asn Lys Gln Pro His Leu
20      25      30
Gly Ile Ser Thr Gly Ser Gly Tyr Val Leu Val Thr Gln Thr Ala Ala
35      40      45
His Ile Leu Val Asp Phe Arg Tyr Tyr Ser Asp Ile Ala Ser Arg Ala
50      55      60
Ala Gly Tyr Glu Met His Leu Leu Asn Thr Glu Asn Pro Phe Ala Gln
65      70      75
Ala Val Asn Gln Ile Ile Ala Lys Glu Ala Leu Thr Arg Leu Gly Phe
85      90      95
Glu Gly Glu Tyr Val Ser Trp Gln Thr Gly Val Leu Trp Arg Asp Thr
100     105     110
Leu Asn Thr Ala Leu Cys Ser Thr Ser Leu Asp Ala Leu Arg Gln Ile
115     120     125
Lys Thr Ala Asp Glu Ile Asp Arg Ile Arg Ala Ala Cys Gly Ile Ala
130     135     140
Asp Arg Ala Ala Gln His Ile Arg Arg Phe Ile Gln Pro Gly Met Arg
145     150     155
Glu Arg Glu Val Ala Ala Glu Leu Glu Trp Phe Met Lys Gln Glu Gly
165     170     175
Ala Asp Lys Pro Ser Phe Asp Thr Ile Val Ala Ser Gly Pro Arg Gly
180     185     190
Ala Leu Pro His Gly Lys Ala Ser Asp Lys Val Ile Met Pro Gly Glu
195     200     205
Met Ile Thr Leu Asp Phe Gly Ala Gln His Gln Gly Tyr Cys Ser Asp
210     215     220
Met Thr Arg Thr Phe Leu Val Ala Gly Gln Asn Thr Pro Pro Glu Glu
225     230     235
His Leu Ser Met Arg Cys Thr Arg Ser Phe Trp Arg His Asn Arg Gln
245     250     255
Leu Leu Met Pro Ser Ala Pro Ala Phe Pro Val Ile Arg Ser Ile Ala
260     265     270
Pro Tyr Val Pro
275

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<210> 9574

<211> 148

<212> PRT

<213> *Enterobacter cloacae*

<400> 9574

```

Gln Gly Glu Thr Val Met Tyr Gln Thr Ile Ile Met Pro Val Asp Val
1      5      10
Phe Glu Met Glu Leu Ser Asp Lys Ala Ile Arg His Ala Glu Phe Leu
20      25      30
Ala Gln Gln Asp Gly Ile Ile His Leu Leu His Val Leu Pro Gly Ser
35      40      45
Ala Ser Leu Ser Leu His Arg Phe Ala Ala Asp Val Arg Arg Phe Glu
50      55      60
Glu His Leu Gln His Glu Ala Glu Thr Arg Leu Gln Thr Met Val Gly
65      70      75
His Phe Ser Ile Asp Pro Ser Arg Ile Lys Thr His Val Arg Phe Gly
85      90      95
Ser Val Arg Asp Ala Val Asn Glu Leu Ala Gly Glu Leu Asn Ala Asp
100     105     110

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Val Val Val Ile Gly Ser Arg Asn Pro Ser Ile Thr Thr His Leu Leu
 115 120 125
 Gly Ser Asn Ala Ser Ser Val Ile Arg His Thr His Ile Pro Val Met
 130 135 140
 Val Val Arg
 145

<210> 9575

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 9575

Pro Pro Val His Ser Ser Ala Arg Thr Arg Asp Val Asn Ser Cys Pro
 1 5 10 15
 Ser Gly Glu Pro Ala Lys Arg Gly Pro Trp Ser Asp Pro Gly Leu Ala
 20 25 30
 Ile Arg Lys Glu Gly Leu Arg Thr Ala Ser Val Leu Ser Ser Leu Lys
 35 40 45
 Val Thr Phe Gly Asp Ser Ser Ala Ile Ser Val Ser Ser Ala Leu Ile
 50 55 60
 Ser Ala Asp Phe Ala Leu Ser Ser Ser Val Ala Ile Ser Ser Thr Gly
 65 70 75 80
 Leu Val Ser Phe Ser Arg
 85

<210> 9576

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 9576

Phe His Asn Ile Val Leu Phe Phe Ser Arg His Leu Thr Arg Arg Thr
 1 5 10 15
 Arg Leu Ile Met Ser Ile Tyr Lys Ile Pro Leu Gln Glu Asn Val Leu
 20 25 30
 Asp Ala Ser Ala Glu Arg Ile Asp Trp Thr Leu Asn Asn Phe Ser Arg
 35 40 45
 Val Cys Val Ser Phe Ser Gly Gly Lys Asp Ser Thr Val Met Leu His
 50 55 60
 Leu Val Ala Gln Lys Ala Arg Gln Leu Lys Arg Lys Ile Asp Val Ile
 65 70 75 80
 Phe Leu Asp Trp Glu Ala Gln Phe Ser Ser Thr Ile Gln His Val Asp
 85 90 95
 Thr Met Arg Thr Leu Tyr Arg Asp Val Ile His Leu Phe Trp Trp Val
 100 105 110
 Ala Leu Pro Leu Thr Thr Gln Asn Ala Leu Ser Gln Phe Gln Pro Glu
 115 120 125
 Trp Gln Cys Trp Glu Pro Gly Thr Asn Trp Val Arg Gln Pro Pro Glu
 130 135 140
 Asp Ala Ile Thr Asp Tyr His Tyr Phe Asp Phe Tyr Gln Gln Gly Met
 145 150 155 160
 Thr Phe Glu Ala Phe Val Arg Glu Phe Ala Glu Trp Tyr Ala Gln Arg
 165 170 175
 Arg Pro Ala Ala Val Met Val Gly Ile Pro Ala Asp Glu Ser Tyr Asn
 180 185 190
 Arg Phe Leu Ala Ile Ala Ser Ala Arg Lys Gln Arg Phe Ser Asp Asp
 195 200 205
 Lys Pro Trp Thr Thr Val Ala Pro Gly Gly His Ala Trp Tyr Ile Tyr
 210 215 220
 Pro Leu Tyr Asp Trp Lys Thr Ala Asp Ile Trp Thr Phe Ala Lys

225 230 235 240
 Ser Lys Cys Cys Tyr Asn Pro Leu Tyr Asp Leu Met Tyr Lys Ala Gly
 245 250 255
 Val Pro Pro Arg Tyr Met Arg Ile Cys Glu Pro Phe Gly Pro Glu Gln
 260 265 270
 Arg Gln Gly Leu Trp Leu Tyr His Val Ile Glu Pro Glu Arg Trp Ala
 275 280 285
 Ala Met Cys Glu Arg Ala Cys Gly Val Arg Ser Gly Gly Ile Tyr Ala
 290 295 300
 Gly His Asp Asn His Phe Tyr Gly His Arg Lys Ile Leu Lys Pro Asp
 305 310 315 320
 His Leu Gly Trp Arg Glu Tyr Ala Met Leu Leu Leu Asp Ser Met Pro
 325 330 335
 Gln Asn Thr Ala Glu His Tyr Arg Asn Lys Ile Ala Val Tyr Leu His
 340 345
 Trp Tyr Gln Lys Arg Gly Met Asn Asp Ile Pro Asp Thr Gln Glu Gly
 355 360 365
 Asp Ile Gly Ala Lys Asp Ile Pro Ser Trp Arg Arg Ile Cys Lys Val
 370 375 380
 Leu Leu Asn Asn Asp Tyr Trp Cys Arg Ala Leu Ser Phe Ser Pro Asn
 385 390 395 400
 Lys Pro Lys His Tyr Gln Arg Tyr Ser Asp Arg Val Lys Ala Lys Arg
 405 410 415
 Lys Glu Trp Gly Ile Leu Cys Asn Asn Glu
 420 425

<210> 9577

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 9577

Met Arg Asn Ala Phe Thr Thr Met Gly Glu Ser Met Ile Arg Ala Ile
 1 5 10 15
 Val Thr Asp Ile Glu Gly Thr Thr Ser Asp Ile Arg Phe Val His Asp
 20 25 30
 Val Leu Phe Pro Tyr Ala Arg Glu Arg Leu Ala Ala Phe Val Thr Ala
 35 40 45
 Gln Gln Tyr Ala Glu Pro Val Lys Ser Ile Leu Asp Asn Leu Arg Asp
 50 55 60
 Glu Ile Ser Ala Pro His Ala Ser Val Ser Asp Leu Ile Asn Val Leu
 65 70 75 80
 Phe Thr Phe Met Asp Glu Asp Arg Lys Ser Thr Ala Leu Lys Ala Leu
 85 90 95
 Gln Gly Ile Ile Trp Gln Asp Gly Tyr Val Asn Gly Asp Phe Thr Gly
 100 105 110
 His Leu Tyr Pro Asp Val Leu Pro Ala Leu Glu Lys Trp Lys Ala Gln
 115 120 125
 Gly Ile Asp Leu Tyr Val Tyr Ser Ser Gly Ser Val Ala Ala Gln Lys
 130 135 140
 Leu Leu Phe Gly Tyr Ser Asp Glu Gly Asp Ile Thr His Leu Phe Ser
 145 150 155 160
 Gly Tyr Phe Asp Thr His Ile Gly Ala Lys Arg Glu Val Gln Ser Tyr
 165 170 175
 Gln Asn Ile Ala Ala Gln Thr Gly Ile Ala Pro Ser Gln Ile Leu Phe
 180 185 190
 Leu Ser Asp Ile His Gln Glu Leu Asp Ala Ala Glu Gln Ala Gly Phe
 195 200 205
 Arg Thr Leu Gln Leu Ile Arg Gly Glu Asp Asp Gly Ala Ser His His
 210 215 220
 His Gln Ile His Gln Phe Asp Glu Ile Asn Pro Glu Gln Ile Pro Ser

225

230

235

240

<210> 9578

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 9578

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Asn Cys Pro Ser Ala Gly Asp Cys Cys Asp Arg Ala Val Pro Gly Ile
1          5          10          15
Arg Cys Arg Gln Pro Tyr His Leu Ala Gly Tyr Arg Gly Gly Arg Arg
20          25          30
Leu His Ala Gly Gly Val Met Ile Trp Lys Arg His Leu Thr Leu Glu
35          40          45
Glu Leu Asn Ala Thr Ser Leu Asn Thr Met Val Gly His Leu Gly Ile
50          55          60
Val Tyr Thr Arg Leu Gly Asp Asp Thr Leu Glu Ala Glu Met Pro Val
65          70          75          80
Asp Ala Arg Thr His Gln Pro Phe Gly Leu Leu His Gly Gly Ala Ser
85          90          95
Ala Ala Leu Ala Glu Thr Leu Gly Ser Met Ala Gly Phe Leu Met Thr
100         105         110
Arg Asp Gly Gln Asn Val Val Gly Thr Glu Leu Asn Ala Thr His His
115         120         125
Arg Ala Val Ser His Gly Lys Val Arg Gly Val Cys Gln Pro Leu His
130         135         140
Leu Gly Arg Ser Ser Gln Ser Trp Glu Ile Val Val Phe Asp Glu Gln
145         150         155         160
Gly Arg Arg Cys Cys Thr Cys Arg Leu Ser Thr Met Val Leu Gly
165         170         175

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<210> 9579

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 9579

```

Gln Ala Leu Thr Arg Cys Tyr Val Trp Thr Ser Gly Trp Leu Ile Ile
1          5          10          15
Phe Arg Phe Ile Leu Cys Leu Phe Arg Cys Gln Ser Thr Gly Ala
20          25          30
Val Lys Asn Ser Leu Asn Gln Lys Ser Asn Glu Gly Phe Thr Arg Met
35          40          45
Val Ser Ser Arg Leu Glu Met Arg Gly Ile Ser Leu Ala Phe Ser Gly
50          55          60
Phe Gln Ala Leu Ser Arg Val Asp Phe Thr Leu Asn Gly Gly Ser Val
65          70          75          80
His Ala Leu Thr Gly Ala Asn Gly Ala Gly Lys Ser Thr Leu Met Ala
85          90          95
Val Leu Cys Gly Thr His Asp His Tyr Glu Gly Glu Ile Cys Ile Asn
100         105         110
Asn Gln Pro Val Ser Ile Arg Glu Pro Leu Asp Ala Lys Arg Leu Gly
115         120         125
Ile His Leu Val Gln Gln Glu Val Asp Val Ala Leu Ile Pro Gly Leu
130         135         140
Ser Ile Ala Glu Asn Ile Met Leu Asp Gln Leu Ala Gln Pro Gly His
145         150         155         160
Arg Tyr Arg Trp Arg Asp Ile Arg Gln Gln Ala Arg Gln Ala Leu Ala
165         170         175

```

Gln Leu Asp Val Ser Leu Asp Val Arg Arg Ser Ile Asp Gly Cys Thr
 180 185 190
 Leu Ala Glu Lys Gln Gln Ile Leu Leu Ala Arg Ala Leu Ser His His
 195 200 205
 Cys Arg Phe Leu Ile Leu Asp Glu Pro Thr Ala Pro Leu Asp Ala His
 210 215 220
 Glu Ser Glu Arg Leu Phe Ala Val Val Arg Arg Leu Gln Gln Gln Gly
 225 230 235 240
 Ile Gly Val Val Phe Ile Ser His Arg Ile His Glu Leu Lys Ala Ile
 245 250 255
 Cys Asp Thr Leu Thr Val Leu Arg Asp Gly Arg Leu Ile Glu Ser Gly
 260 265 270
 Pro Met Ala Asp Leu Ser Gly Glu Ala Ile Val Glu Lys Met Leu Gly
 275 280 285
 His Glu Leu Ser Asp Ile Tyr Pro Pro Pro Arg Pro Pro His Gly Asp
 290 295 300
 Glu Thr Leu Leu Arg Val Glu Gly Leu His Asp Asp Ala Leu Leu Lys
 305 310 315 320
 Asp Ile Ser Leu His Leu Arg Lys Gly Glu Ile Leu Gly Ile Ala Gly
 325 330 335
 Leu Ala Gly Ala Gly Lys Thr Glu Leu Cys Lys Ala Leu Phe Gly Ala
 340 345 350
 Ser Lys Ser Arg Val Ala Asn Gly Glu Leu Asn His Gln Asp Trp Lys
 355 360 365
 Pro Arg Asp Pro Ala Asp Ser Val Leu Arg Gly Leu Ala Leu Val Pro
 370 375 380
 Glu Glu Arg Arg Lys Glu Gly Ile Phe Ile Asp Glu Pro Val Ser Met
 385 390 395 400
 Asn Leu Ala Val Cys Ala Asp Asn Ser Phe Ser Arg Trp Ser Leu Phe
 405 410 415
 Gly His Arg Gln Ala Trp Arg Trp Ala Glu Glu Val Ile Ala Arg Val
 420 425 430
 Gly Val Arg Ala Arg Gly Pro Gly Gln Val Leu Arg Arg Leu Ser Gly
 435 440 445
 Gly Asn Gln Gln Lys Val Ala Ile Gly Lys Trp Leu Arg Asn Asp Ala
 450 455 460
 Ser Val Leu Ile Phe Asp Glu Pro Thr Lys Gly Val Asp Val Lys Ala
 465 470 475 480
 Lys Thr Asp Leu Phe Gln Leu Ile Asp Gly Leu Ala Arg Glu Gly Lys
 485 490 495
 Gly Val Ile Tyr Ala Ser Gly Glu Phe Ala Glu Leu Val Gly Leu Cys
 500 505 510
 Asp Arg Ile Cys Val Leu Trp Asp Gly Arg Ile Val Ala Glu Ile Ala
 515 520 525
 Gly Ala Glu Ala Arg Glu Glu Thr Leu Leu Tyr Tyr Ser Thr Gly Gly
 530 535 540
 Thr Ala Ser
 545

<210> 9580

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 9580

Lys Met Lys Lys Ile Ala Leu Ser Leu Val Ala Leu Gly Leu Phe Thr
 1 5 10 15
 Ala Leu Pro Gly Phe Ala Ala Thr Pro Ala Pro Leu Pro Ala Ala Ile
 20 25 30
 Ala Asn His Asp Gly Pro Ile Arg Ile Ala Val Ile Arg Asn Leu Gly
 35 40 45

Ser Asp Asp Asn Thr Thr Gln Phe Val Ala Gly Ala Ile Gln Glu Gly
 50 55 60
 Lys Lys Leu Gly Phe Lys Val Ser Thr Phe Leu Ser Asn Gly Asp Asp
 65 70 75 80
 Ala Lys Phe Gln Asp Phe Val Asn Gln Ala Ile Ser Gln Lys Tyr Asp
 85 90 95
 Gly Ile Ile Leu Ser Gln Gly Arg Asp Pro Tyr Ser Thr Ala Leu Val
 100 105 110
 Lys Lys Ala Val Asp Ala Gly Ile Lys Val Ala Val Phe Asp Thr Ala
 115 120 125
 Val Asn Gly Glu Ile Pro Gly Val Thr Val Thr Gln Asp Asp Ala
 130 135 140
 Ser Leu Thr Asn Leu Ser Phe Gly Gln Leu Ala Lys Asp Phe Asn Gly
 145 150 155 160
 Lys Ala Asn Ile Val Lys Leu Trp Val Ala Gly Phe Pro Pro Met Glu
 165 170 175
 Arg Arg Gln Ala Ala Tyr Lys Glu Leu Gln Lys Gln Tyr Pro Glu Ile
 180 185 190
 Lys Glu Leu Glu Ser Ile Gly Ala Val Ser Ser Asp Val Gln Gly Asp
 195 200 205
 Thr Ala Asn Lys Val Gly Ala Ile Leu Ala Lys Tyr Pro Lys Gly Lys
 210 215 220
 Ile Asp Ala Ile Trp Gly Thr Trp Asp Ala Phe Ser Gln Gly Ala Tyr
 225 230 235 240
 Lys Ala Leu Lys Glu Asn Gly Arg Thr Glu Ile Lys Leu Tyr Ser Ile
 245 250 255
 Asp Ile Ser Asn Gln Asp Leu Gln Leu Met Arg Glu Pro Gly Ser Pro
 260 265 270
 Trp Lys Val Ser Val Ala Val Asp Pro Lys Leu Ile Gly Ala Thr Asn
 275 280 285
 Val Arg Leu Ile Ala Asn Lys Ile Ala Gly Glu Ala Thr Pro Ala Thr
 290 295 300
 Tyr Asp Phe Lys Ala Ala Ile Pro Gln Ala Leu Leu Thr Ala Gln
 305 310 315 320
 Pro Gly Ala Val Asn Val Ala Ser Leu Gly Lys Ile Ile Pro Gly Trp
 325 330 335
 Gly Gln Thr Glu Asp Phe Ile Ala Pro Trp Phe Ala Thr Leu Glu Ala
 340 345 350
 Lys Asn Lys
 355

<210> 9581

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 9581

Thr Ser Ile His Leu Asp Phe Ile Leu Thr Gln Cys Ala Thr Thr Thr
 1 5 10 15
 Gln Gln Gly Ile Asn Asp Met Gln Thr Leu Gln Thr Thr Ser Leu Arg
 20 25 30
 Val Ala Asn Asn Gln Leu Phe Ile Leu Asp Gln Gln Ala Leu Pro Gln
 35 40 45
 Glu Lys Arg Trp Val Asp Ala Ser Thr Val Glu Ala Leu Val Gly His
 50 55 60
 Ile His Ala Leu Arg Val Arg Gly Ala Pro Leu Ile Gly Leu Ser Ala
 65 70 75 80
 Ser Leu Leu Leu Ala Leu Leu Ala Glu Asn Gly Lys Ser Arg Asp Glu
 85 90 95
 Leu Ala Val Ala Leu Glu Thr Leu Arg Ala Ser Arg Pro Thr Ala Val
 100 105 110

```

Asn Leu Met Asn Asn Leu Asp Arg Met Lys Leu Ala Leu Trp Glu Glu
115 120 125
Asp Phe Val Pro Ala Leu Val Ala Glu Ala Leu Arg Leu Ile Asp Glu
130 135 140
Asp Lys Arg Leu Cys Asp Ala Ile Ala Lys Ala Gly Ser Ala Leu Val
145 150 155 160
Lys Pro Gly Ser Arg Leu Leu Thr His Cys Asn Thr Gly Gly Leu Ala
165 170 175
Thr Ala Gly Val Gly Thr Ala Leu Gly Val Ile Ala Arg Ala His Lys
180 185 190
Glu Gly Lys Val Ser Asn Val Trp Val Asp Glu Thr Arg Pro Leu Leu
195 200 205
Gln Gly Gly Arg Leu Thr Ala Trp Glu Leu Gly Glu Gly Val Pro
210 215 220
Tyr Gln Leu Ile Thr Asp Ser Met Ala Ala Ser Leu Met Ala Lys Gly
225 230 235 240
Gln Val Asp Ala Val Trp Val Gly Ala Asp Arg Ile Ala Ala Asn Gly
245 250 255
Asp Val Ala Asn Lys Ile Gly Thr Tyr Ser Leu Ala Val Leu Ala Lys
260 265 270
Phe His Gly Ile Pro Phe Tyr Val Ala Ala Pro Gln Thr Thr Leu Asp
275 280 285
Pro Asp Cys Pro Asn Gly Asp Ala Ile Pro Ile Glu Gln Arg Ala Ala
290 295 300
Ser Glu Val Thr Gly Val Ala Gly Ser Phe Gly Ala Val Gln Trp Ala
305 310 315 320
Pro Gln Asn Ala Gln Val Tyr Asn Pro Ala Phe Asp Val Thr Pro Ala
325 330 335
Ser Leu Ile Ser Gly Trp Val Leu Asp Thr Gly Val Val Thr Pro Asp
340 345 350
Glu Val Ala Glu Gly Lys Phe Ala
355 360

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<210> 9582

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 9582

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Pro Arg Trp Ile Lys Leu Val Thr Leu His Leu Asp Glu Asn Thr Glu
1 5 10 15
Glu Val Gln Met Ser Leu Ile Asn Thr Lys Ile Lys Pro Phe Lys Asn
20 25 30
Gln Ala Phe Lys Asn Gly Glu Phe Ile Glu Val Thr Glu Lys Asp Ile
35 40 45
Glu Gly Arg Trp Ser Val Phe Phe Phe Tyr Pro Ala Asp Phe Thr Phe
50 55 60
Val Cys Pro Thr Glu Leu Gly Asp Val Ala Asp His Tyr Glu Glu Leu
65 70 75 80
Gln Lys Leu Gly Val Asp Val Tyr Ser Val Ser Thr Asp Thr His Phe
85 90 95
Thr His Lys Ala Trp His Ser Ser Ser Glu Thr Ile Ala Lys Ile Lys
100 105 110
Tyr Ala Met Ile Gly Asp Pro Thr Gly Ala Leu Thr Arg Asn Phe Asp
115 120 125
Asn Met Arg Glu Asp Glu Gly Leu Ala Asp Arg Ala Thr Phe Val Val
130 135 140
Asp Pro Gln Gly Ile Ile Gln Ala Ile Glu Val Thr Ala Glu Gly Ile
145 150 155 160
Gly Arg Asp Ala Ser Asp Leu Leu Arg Lys Val Lys Ala Ala Gln Tyr
165 170 175

```

Val Ala Ser His Pro Gly Glu Val Cys Pro Ala Lys Trp Lys Glu Gly
 180 185 190
 Glu Ala Thr Leu Ala Pro Ser Leu Asp Leu Val Gly Lys Ile
 195 200 205

<210> 9583

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 9583

Ile Phe Gly Asn Lys Pro Gly Val Pro Ile His Ala Glu Arg Lys Phe
 1 5 10 15
 Arg Tyr Ala Gly Lys Thr Glu Pro Gly Gln Cys Ala Leu Gln Pro Gln
 20 25 30
 Arg Arg Glu Ser Asp Met Tyr Phe Tyr Gln Pro Ser Gln Gly His Gly
 35 40 45
 Leu Pro His Asp Pro Leu Asn Ala Ile Ile Gly Pro Arg Pro Ile Gly
 50 55 60
 Trp Ile Ser Ser Cys Asp Arg Ala Gly Gln Leu Asn Leu Ala Pro Tyr
 65 70 75 80
 Ser Phe Phe Asn Cys Phe Asn Tyr Arg Pro Ile Ile Gly Phe Ser
 85 90 95
 Ser Asn Gly Trp Lys Asp Ser Val Arg Asn Ile Thr Glu Thr Gly Glu
 100 105 110
 Phe Val Trp Asn Leu Ala Thr Arg Asp Leu Ala Glu Ala Met Asn Glu
 115 120 125
 Thr Ser Ala Thr Leu Pro His Gly Glu Asp Glu Phe Thr Phe Ala Gly
 130 135 140
 Leu Thr Pro Val Ala Ser Gln Leu Val Ser Ser Pro Arg Val Ala Glu
 145 150 155 160
 Ser Pro Val Asn Phe Glu Cys Arg Leu Ser Gln Cys Ile Gln Leu Thr
 165 170 175
 Gly Ala Asp Gly Thr Pro Ile Asp Thr Trp Leu Val Leu Gly Glu Val
 180 185 190
 Val Gly Val His Ile Ala Glu Ser Leu Leu Glu Gly Ile Tyr Gln
 195 200 205
 Thr Ala Lys Ala Gln Pro Ile Leu Arg Ala Gly Gly Pro Thr Ala Tyr
 210 215 220
 Tyr Ala Ile Ser Asp Ser His Arg Phe Asp Leu Val Arg Pro Asp Ala
 225 230 235 240
 Arg Arg Gly

<210> 9584

<211> 532

<212> PRT

<213> Enterobacter cloacae

<400> 9584

Arg Tyr Gly Trp Arg Asp Val Gln Arg Gly Ser Ala Thr Val Pro Val
 1 5 10 15
 Lys Thr Ser Gly Gln Gly Leu Arg Arg Cys Phe Pro Leu Tyr Ala
 20 25 30
 Gly Gly Gly Ser Thr Asp Ala Ala Gln Ala Arg Thr His Cys Pro Gly
 35 40 45
 Ala Asn Ala Gly Gly Ala Val Ser Gly Cys Ala Asn Gly Val Ala Ala
 50 55 60
 Thr Ala Gly Arg Gly Thr Thr Val Ala Ala Ser Thr Ala Gly Gly Thr
 65 70 75 80
 Asp Gly Ala Ile Ser Leu Trp Thr Val Gly Ala Ser Gly Pro Ala Gly

85 90 95
 Gly Ala Ser Trp Arg Thr Gly Tyr Gly Thr Gly Gly Glu Pro Gly Gly
 100 105 110
 Ala Arg Asn Gly Ala Asn Leu Gly Cys Arg Glu Leu Ala Asp Pro Ala
 115 120 125
 Gly Ala Gly Ala Met Lys Lys Thr Thr Leu Met Ala Ile Ala Ile Ala
 130 135 140
 Ile Ala Ala Ala Gly Gly Tyr Phe Val Gly Gln Lys Gln Thr His Gln
 145 150 155 160
 Pro Ala Ala Ala Ala Gln Pro Ser Glu Arg Lys Val Leu Tyr Trp Tyr
 165 170 175
 Asp Pro Met Val Pro Gly Gln Arg Phe Asp Lys Pro Gly Lys Ser Pro
 180 185 190
 Phe Met Asp Met Asp Leu Val Pro Arg Tyr Ala Asp Glu Ala Gln Ala
 195 200 205
 Ala Ser Gly Val Ala Ile Ser Thr Gln Gln Gln Gln Asn Leu Gly Met
 210 215 220
 Lys Thr Ala Asn Val Glu Met Arg Gln Leu Val Ser Pro Phe Ser Ala
 225 230 235 240
 Phe Ala Thr Val Ala Thr Asp Glu Arg Asn Val Ser Val Val Ser Ala
 245 250 255
 Pro Ala Asn Gly Val Val Ser Lys Leu Phe Val Asn Ala Pro Gln Gln
 260 265 270
 Gln Val Lys Ala Gly Glu Ala Leu Ala Gln Leu Trp Ile Pro Gln Trp
 275 280 285
 Thr Thr Ala Gln Gln Glu Tyr Leu Ala Val Arg Gln Leu Gly Asp Ala
 290 295 300
 Ala Leu Thr Arg Ala Ala Arg Glu Arg Leu Ala Leu Gln Phe Met Pro
 305 310 315 320
 Glu Glu Val Ile Arg Leu Leu Glu Arg Ser Gly Lys Pro Gln Thr Thr
 325 330 335
 Leu Ile Leu Arg Ala Asp Gln Ala Gly Tyr Val Val Lys Leu Asp Val
 340 345 350
 Arg Glu Gly Ala Gln Ile Thr Ala Thr Ala Pro Leu Phe Glu Ile Ala
 355 360 365
 Arg Leu Asp Pro Val Trp Leu Val Val Asp Tyr Pro Gln Thr Gln Ala
 370 375 380
 Gln Ser Leu Ala Val Gly Ser Asn Val Val Ala Thr Ser Glu Ser Trp
 385 390 395 400
 Pro Gly Glu Gln Phe His Gly Thr Val Ser Glu Leu Leu Pro Gln Met
 405 410 415
 Glu Thr Thr Thr Arg Thr Leu Lys Ala Arg Ile Val Leu Glu Asn Ser
 420 425 430
 Ala His Lys Leu Lys Pro Gly Met Tyr Leu Ser Val Arg Arg Ala Glu
 435 440 445
 Glu Met Lys Gly Pro Pro Val Leu Ala Val Pro Glu Glu Ala Val Ile
 450 455 460
 Asn Ser Gly Glu Ser Ala Arg Leu Leu Leu Ala Thr Gly Asp Gly Tyr
 465 470 475 480
 Phe Arg Pro Val Thr Val Thr Thr Gly Leu Thr Ala Gln Gly Trp Thr
 485 490 495
 Ala Ile Leu Ser Gly Val Lys Gln Gly Asp Lys Val Val Thr Ser Gly
 500 505 510
 Gln Phe Leu Ile Asp Ser Glu Ala Ser Leu Arg Ser Val Met Pro Glu
 515 520 525
 Val Thr Pro
 530

<210> 9585

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 9585

```

1  Ile Ser Gln Ala Gly Ala Arg Arg Gly Lys Tyr Gly Ala Asp Ala Gly
   5                                     10                      15
Asp Pro Arg Arg Cys Arg Ala Ala Arg Ala Ser Glu Gly Asp Asp Gly
   20                                     25                      30
Arg His Tyr Tyr Gly Arg Thr Ala Ala His His Val Gly Glu Trp Glu
   35                                     40                      45
Trp Leu Gly Gly Asp Ala Thr Tyr Cys Arg Ala Asp Asp Trp Trp His
   50                                     55                      60
Gly Asn Gly Thr Val Ile Val Asp Val Ser Tyr Ser Arg Thr Leu Gln
   65                                     70                      75                      80
Ile Val Thr Ser Thr Leu Asn Met Ser Thr Ala Cys Ala Tyr Ser Gly
   85                                     90                      95
Met Gln Phe Met Tyr Pro Gln Ile Ile Ile Pro Arg Asn Gly Met Val Ile
  100                                     105                      110
Arg Asn Asn Thr His Ala Val Lys Arg Ser Phe Lys Tyr Ser Val Leu
  115                                     120                      125
Arg Ser Ala Pro Asn Thr Lys Tyr Gly Asn Gly Ile Val Ile Val Arg
  130                                     135                      140
Ile Lys Phe Pro Leu Ile Leu Leu Phe Ile Ile Gly Gln Leu Ser Cys
  145                                     150                      155                      160
Ala Phe Ala Val Asn Ala Asp Ser Asn Thr Ala Asp Lys Gly Trp Phe
  165                                     170                      175
Thr Thr Phe Thr Asp Asn Val Ala Gln Thr Trp Asn Glu Pro Glu His
  180                                     185                      190
Tyr Asp Leu Tyr Ile Pro Ala Ile Thr Trp His Ala Arg Phe Ala Tyr
  195                                     200                      205
Asp Lys Glu Lys Thr Asp Arg Tyr Asn Glu Arg Pro Trp Gly Ala Gly
  210                                     215                      220
Phe Gly Gln Ser Arg Trp Asp Glu Lys Gly Asn Trp His Gly Leu Tyr
  225                                     230                      235                      240
Leu Met Ala Phe Lys Asp Ser Tyr Asn Lys Trp Glu Pro Ile Gly Gly
  245                                     250                      255
Tyr Gly Trp Glu Lys Thr Trp Arg Pro Leu Ser Asp Asp Asn Phe Arg
  260                                     265                      270
Leu Gly Leu Gly Tyr Thr Ala Gly Phe Thr Ala Arg Asp Asn Trp Lys
  275                                     280                      285
Tyr Ile Pro Val Pro Val Leu Leu Pro Leu Ala Ser Ile Gly Tyr Gly
  290                                     295                      300
Pro Ala Thr Phe Gln Met Thr Tyr Ile Pro Gly Thr Tyr Asn Asn Gly
  305                                     310                      315                      320
Asn Val Tyr Phe Ala Trp Met Arg Phe Gln Phe
  325                                     330

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<210> 9586

<211> 436

<212> PRT

<213> Enterobacter cloacae

<400> 9586

```

1  Thr Leu Gly Leu Ser Ser Ile Arg Arg Gly Arg Phe Ala Arg Arg Trp
   5                                     10                      15
Thr Ala Gly Arg Cys Gly Ile Arg Leu Ala Asp Glu Asn Ile Asn Asp
  20                                     25                      30
Asn His Tyr Cys Phe Phe Tyr His Phe Lys Glu Asp Asp Met Asp Thr
  35                                     40                      45
Ser Leu Ala Glu Glu Val Gln His Thr Ala Thr Thr Leu Gln Ala Asp
  50                                     55                      60
Ser Phe Phe Phe Met Ser Pro Tyr Arg Ser Phe Thr Thr Ser Gly Cys

```

65 70 75 80
 Phe Ala Arg Phe Ser Glu Pro Ala Val Gly Asp Asp Pro Ala Gly
 85 90 95
 Pro Phe Gln Gln Lys Leu Ala Gln Ala Phe Arg Asn Ala Lys Asn Ser
 100 105 110
 Gly Ile Ala His Pro Val Met Val Gly Ala Ile Pro Phe Asp Thr Arg
 115 120 125
 Lys Pro Ser Ser Leu Phe Ile Pro Gln Arg Trp Gln Thr Phe Ser Arg
 130 135 140
 Pro Ala Arg Gln Gln Ser Ala Arg Tyr Ala Ser Gly Ala Gln Thr Leu
 145 150 155 160
 Asn Val Gln Gln Arg Thr Glu Ile Pro Pro Gln Pro Ile Phe Glu Glu
 165 170 175
 Met Val Ala Arg Ala Ala Ser Leu Thr Ala Thr Pro Gln Val Asn Lys
 180 185 190
 Val Val Leu Ser Arg Leu Ile Asp Ile Ala Thr Asp Lys Gln Ile Asp
 195 200 205
 Ser Ser Ala Leu Met Glu Arg Leu Ile Ala Gln Asn Pro Ala Ser Phe
 210 215 220
 Asn Phe His Val Pro Leu Glu Asp Gly Gly Val Leu Leu Gly Ala Ser
 225 230 235 240
 Pro Glu Leu Leu Leu Arg Lys Glu Gly Ala His Phe Ser Ser Leu Pro
 245 250 255
 Leu Ala Gly Ser Ala Arg Arg Gln Pro Asp Asp Val Leu Asp Arg Glu
 260 265 270
 Ala Gly Thr Lys Leu Leu Ala Ser Glu Lys Asp Arg His Glu His Asp
 275 280 285
 Leu Val Thr Gln Ala Met Lys Thr Ile Leu Glu Pro Arg Ser His His
 290 295 300
 Leu Ser Met Pro Ala Ser Pro Gln Leu Ile Thr Thr Pro Thr Leu Trp
 305 310 315 320
 His Leu Ala Thr Pro Val Glu Gly Asp Ala Arg Glu Asn Glu Asn Ala
 325 330 335
 Leu Thr Leu Ala Cys Leu Leu His Pro Thr Pro Ala Leu Ser Gly Phe
 340 345 350
 Pro His Gln Ala Ala Lys Glu Leu Ile Ala Glu Leu Glu Pro Phe Asp
 355 360 365
 Arg Glu Leu Phe Gly Gly Ile Val Gly Trp Cys Asp Ser Glu Gly Asn
 370 375 380
 Gly Glu Trp Val Val Thr Ile Arg Cys Ala Arg Leu His Gln Asn Thr
 385 390 395 400
 Val Arg Leu Phe Ala Gly Ala Gly Ile Val Pro Ala Ser Ser Pro Val
 405 410 415
 Gly Glu Trp Arg Glu Thr Gly Val Lys Leu Ser Thr Met Leu Asn Val
 420 425 430
 Phe Gly Leu His
 435

<210> 9587

<211> 540

<212> PRT

<213> *Enterobacter cloacae*

<400> 9587

Gly Ile Leu Met Thr Ile Pro Phe Thr Arg Trp Pro Glu Asp Phe Ala
 1 5 10 15
 Arg Arg Tyr Arg Glu Lys Gly Tyr Trp Gln Asp Leu Pro Leu Thr His
 20 25 30
 Ile Leu Thr Asp His Ala Asp Ser Asp Ala Val Ala Ile Ile Asp Gly
 35 40 45
 Asp Arg Arg Ile Thr Tyr Arg Ala Phe Asn Gln Ala Val Thr Asn Leu

50											55											60
Ala 65	Ser	Ala	Leu	Gln	Ala	Gln	Gly	Leu	His	Arg	Gly	Glu	Thr	Ala	Leu	80						
Val	Gln	Leu	Gly	Asn	Val	Ala	Glu	Phe	Tyr	Ile	Thr	Phe	Phe	Ala	Leu	95						
Leu	Gln	Ile	Gly	Val	Ala	Pro	Val	Asn	Ala	Leu	Phe	Ser	His	Gln	Arg	110						
Ser	Glu	Leu	Asn	Ala	Tyr	Ala	Glu	Gln	Ile	Lys	Pro	Ala	Val	Leu	Ile	125						
Ala	Asp	Arg	Asp	His	Ala	Leu	Phe	Ser	Gly	Asp	Asp	Phe	Leu	Asn	Thr	140						
Phe	Val	Asp	Ala	His	Arg	Ser	Val	Arg	Val	Val	Leu	Leu	Arg	Gly	Asp	155						
Lys	Gly	Glu	His	Ala	Leu	Glu	Ala	Ala	Ile	Ser	Arg	Pro	Ala	Asp	Asn	170						
Phe	Ile	Pro	Asn	Pro	Thr	Pro	Ala	Asp	Glu	Val	Ala	Phe	Phe	Gln	Leu	185						
Ser	Gly	Gly	Ser	Thr	Gly	Thr	Pro	Lys	Leu	Ile	Pro	Arg	Thr	His	Asn	200						
Asp	Tyr	Asp	Tyr	Ser	Ile	Arg	Arg	Ser	Asn	Glu	Ile	Cys	Gly	Ile	Thr	215						
Ala	His	Thr	Arg	Tyr	Leu	Asn	Ala	Leu	Pro	Ala	Ala	His	Asn	Tyr	Ala	230						
Met	Ser	Ser	Pro	Gly	Ser	Leu	Gly	Val	Phe	Thr	Ala	Gly	Gly	Cys	Val	245						
Val	Leu	Ala	Asn	Asp	Pro	Ser	Ala	Thr	Leu	Cys	Phe	Pro	Leu	Ile	Glu	260						
Gln	His	Gln	Ile	Asn	Val	Thr	Ser	Leu	Val	Pro	Pro	Ala	Val	Ser	Leu	275						
Trp	Leu	Gln	Ala	Ile	Ala	Asp	Gly	Ala	Gly	Asn	Ala	Gln	Leu	Lys	Ser	290						
Leu	Glu	Leu	Leu	Gln	Val	Gly	Gly	Ala	Arg	Leu	Ser	Ala	Thr	Leu	Ala	305						
Ala	Arg	Ile	Pro	Ala	Glu	Ile	Gly	Cys	Gln	Leu	Gln	Gln	Val	Phe	Gly	320						
Met	Ala	Glu	Gly	Leu	Val	Asn	Tyr	Thr	Ala	Leu	Asp	Asp	Ala	Pro	Glu	335						
Arg	Ile	Ile	Asn	Thr	Gln	Gly	Arg	Pro	Met	Cys	Pro	Asp	Asp	Glu	Val	350						
Trp	Val	Ala	Asp	Glu	Asp	Gly	Asn	Pro	Leu	Pro	Arg	Gly	Glu	Val	Gly	365						
Arg	Leu	Met	Thr	Arg	Gly	Pro	Tyr	Thr	Phe	Arg	Gly	Tyr	Phe	Asn	Ser	380						
Pro	Glu	His	Asn	Ala	Ser	Ala	Phe	Asp	Ala	Asn	Gly	Phe	Tyr	Cys	Ser	395						
Gly	Asp	Leu	Ile	Ala	Ile	Asp	Glu	Gln	Gly	Tyr	Ile	Thr	Val	Gln	Gly	410						
Arg	Glu	Lys	Asp	Gln	Ile	Asn	Arg	Gly	Gly	Glu	Lys	Ile	Ala	Ala	Glu	425						
Glu	Ile	Glu	Asn	Leu	Leu	Leu	Arg	His	Asp	Ala	Val	Ile	His	Ala	Ala	440						
Leu	Val	Ser	Met	Gln	Asp	Ser	Leu	Leu	Gly	Glu	Lys	Ser	Cys	Ala	Tyr	455						
Leu	Val	Val	Lys	Gln	Pro	Leu	Arg	Ala	Val	Glu	Val	Arg	Arg	Phe	Leu	470						
Arg	Glu	Gln	Gly	Val	Ala	Glu	Phe	Lys	Leu	Pro	Asp	Arg	Val	Glu	Ser	485						
Val	Asp	Ala	Leu	Pro	Leu	Thr	Pro	Val	Gly	Lys	Val	Asp	Lys	Lys	Gln	500						
Leu	Arg	Leu	Trp	Leu	Ala	Glu	Arg	Ala	Arg	Gly								515				
																	530					
																	535					
																	540					

<210> 9588
 <211> 274
 <212> PRT
 <213> Enterobacter cloacae

<400> 9588

```

Phe Arg Asp Ala Gly Lys Lys Ser Asp Pro Arg Cys Leu Val Gly Ala
1      5      10      15
Ala Leu Pro Arg Gly Glu Val Met Ala Phe Asp Phe Thr Gly Lys Thr
20     25     30
Val Trp Val Thr Gly Ala Gly Lys Gly Ile Gly Tyr Ala Thr Ala Leu
35     40     45
Ala Phe Val Glu Ala Gly Ala Gln Val Thr Gly Phe Asp Leu Ala Phe
50     55     60
Pro His Gly Glu Tyr Pro Phe Ala Thr Glu Thr Leu Asp Val Ala Asp
65     70     75     80
Ala Ala Gln Ala Ser Asp Val Cys Gly Arg Leu Leu Ser Ser Leu Glu
85     90     95
Arg Leu Asp Val Leu Val Asn Ala Ala Gly Ile Leu Arg Met Gly Ala
100    105   110
Thr Asp Gln Leu Ser Pro Glu Asp Trp Gln Gln Thr Phe Ala Val Asn
115    120   125
Val Gly Gly Ala Phe Asn Leu Phe Gln Gln Thr Met Gly Gln Phe Arg
130    135   140
Arg Gln Gln Gly Gly Ala Ile Val Thr Val Ala Ser Asp Ala Ala His
145    150   155   160
Thr Pro Arg Ile Gly Met Ser Ala Tyr Gly Ala Ser Lys Ala Ala Leu
165    170   175
Lys Ser Leu Ala Leu Thr Val Gly Leu Glu Leu Ala Gly Ser Gly Val
180    185   190
Arg Cys Asn Leu Val Ser Pro Gly Ser Thr Asp Thr Asp Met Gln Arg
195    200   205
Thr Leu Trp Thr Ser Asp Asp Ala Glu Gln Arg Arg Ile Arg Gly Phe
210    215   220
Gly Glu Gln Phe Lys Leu Gly Ile Pro Leu Gly Lys Ile Ala Arg Pro
225    230   235   240
Gln Glu Ile Ala Ala Thr Val Leu Phe Leu Ala Ser Asp Ala Ala Ser
245    250   255
His Ile Thr Leu Gln Asp Ile Val Val Asp Gly Gly Ser Thr Leu Gly
260    265   270
Ala

```

<210> 9589
 <211> 366
 <212> PRT
 <213> Enterobacter cloacae

<400> 9589

```

Ile Ser Ser Val Asp Cys His Ser Ala Phe Ser Leu Pro Ala Arg Met
1      5      10      15
Gly His Arg Leu Ile Pro Gly Trp Cys Ser Ala Lys Ser Trp Ala Ser
20     25     30
Ile Ser Pro Arg Val Cys Trp Lys Arg Gly Phe Thr Arg Pro Arg Lys
35     40     45
Arg Ser Pro Phe Cys Val Arg Val Asp Arg Arg Pro Thr Met Pro Ser
50     55     60
Val Ile Ala Ile Ala Ser Thr Trp Tyr Ala Arg Met Arg Ala Gly Gly
65     70     75     80
Asn Met Arg Ala Thr Leu Leu Pro Ala Asp Gln Gln Phe Phe Ala Asp

```

85 90 95
 Leu Leu Ser Gly Leu Val Leu Asn Pro Gln Gln Leu Gly Arg Val Trp
 100 105 110
 Phe Ala His Arg Gly Ala Ser Asp Ala Val Gly Ser Val Ser Arg Asp
 115 120 125
 Trp Pro Arg Leu Asp Val Val Leu Arg Gly Glu Tyr Gly Asn Arg Leu
 130 135 140
 Val Ala Gly Gln Gln Pro Leu His Gln Gly Glu Met Leu Phe Leu Pro
 145 150 155 160
 Ala Gln Ala Ala Ser Val Pro Val Phe Glu Arg Pro Val Met Leu Leu
 165 170 175
 Ser Ile Leu Phe Ala Pro Ser Trp Leu Gly Leu Val Phe His Asp Thr
 180 185 190
 Arg His Gly Arg Ser Val Pro Ala Gln Arg His Val Glu Leu Pro His
 195 200 205
 Pro Glu Arg Gly Glu Cys Ala Ala Met Leu Met Ala Leu Thr His Leu
 210 215 220
 Ser Ala Ser Pro Gln Asp Gln Ala Ile Ile Gln Pro Leu Val Leu Ser
 225 230 235 240
 Leu Leu His Trp Cys Arg Lys Val Val Ser Ser Leu Pro Glu Pro Gly
 245 250 255
 Val Ser Arg Gly Asp Phe Leu Tyr Gln Ser Ile Cys Asn Trp Val Gln
 260 265 270
 Glu Asn Tyr Ala Glu Pro Leu Ser Arg Asp Ser Val Ala Ser Leu Phe
 275 280 285
 Asn Ile Ser Ala Asn His Leu Ser Arg Leu Phe Ser Gln Gln Gly Thr
 290 295 300
 Met Ser Phe Val Asp Tyr Val Arg Trp Val Arg Met Ala Lys Ala Arg
 305 310 315 320
 Thr Ile Leu Gln Lys Tyr His Leu Pro Val Gly Glu Val Ala Lys Arg
 325 330 335
 Cys Gly Tyr Ala Asp Ser Asp Tyr Phe Ser Arg Leu Phe Arg Arg Gln
 340 345 350
 Phe Gly Leu Thr Pro Gly Glu Tyr Arg Ala Arg Phe Gln
 355 360 365

<210> 9590

<211> 435

<212> PRT

<213> Enterobacter cloacae

<400> 9590

Arg Phe Gln Asp Tyr Leu Ala Asp Ala Ser Thr Leu Ser Glu Val Thr
 1 5 10 15
 Met Lys Gln His Thr Leu Ser Leu Trp Leu Gly Gly Val Leu Phe Gly
 20 25 30
 Leu Leu Thr Ser Ala Ala Gln Ala Glu Pro Trp Thr Leu Glu His Thr
 35 40 45
 Leu Thr Glu Ala Gln Arg Tyr Ser Ala Glu Leu Ser Ala Ser Arg Asn
 50 55 60
 Glu Ala Gln Ala Leu Asp Ala Met Ala Val Ser Ala Thr Gln Leu Pro
 65 70 75 80
 Asp Pro Lys Leu Lys Phe Gly Ile Glu Asn Val Pro Val Gln Gly Ser
 85 90 95
 Asn Asp Arg Arg Leu Thr Arg Glu Gly Met Thr Met Gln Lys Val Gly
 100 105 110
 Ile Met Gln Ser Tyr Val Ser Ser Glu Lys Arg Glu Arg Lys Ala Gln
 115 120 125
 Thr Leu Gln Ala Gln Ala Arg Ser Val Leu Ala Lys Ser Glu Ala Val
 130 135 140
 Arg Ala Ala Leu Gln Arg Asp Thr Ala Gln Ala Trp Leu Asp Leu Ala

```

145          150          155          160
Leu Ala Gln Gln Ala Leu Asn Thr Ala Arg Thr Leu Val Arg Glu Thr
          165          170          175
Glu Arg Gln Arg Gly Val Gln Lys Ala Ser Val Gly Ala Gly Ser Ala
          180          185          190
Met Pro Asp Ser Val Leu Ala Leu Gln Met Ile Leu Ser Ala Met Arg
          195          200          205
Asp Lys Glu Thr Leu Ala Gln Arg Asp Val Gln Leu Ala Gln Ser Arg
          210          215          220
Leu Leu Glu Leu Thr Gly His Ala Ile Thr Glu Val Arg Gly Pro Leu
225          230          235          240
Pro Arg Tyr Gln Arg Leu Pro Ala Asn Glu Lys Thr Leu Gln Glu Gly
          245          250          255
Ile Val Arg His Pro Glu Val Glu Ala Ala Arg Arg Glu Ala Glu Thr
          260          265          270
Ala Lys Ala Arg Ser Ala Gln Ser Ala Val Ala Ala Ile Pro Asp Val
          275          280          285
Asp Val Glu Val Tyr Tyr Ala His Arg Ala Glu Gly Tyr Asp Asp Met
          290          295          300
Ala Gly Val Met Phe Ser Val Asp Leu Pro Leu Phe Gln Ser Lys Arg
305          310          315          320
Gln Asp Lys Asp Tyr Ala Ala Asp Val Ser Arg Ser Met Gln Ala Ala
          325          330          335
Asp Gln Leu Thr Leu Leu Lys Arg Glu His Ile Ala Gln Val Gln Thr
          340          345          350
Leu Val Ala Gln Tyr Gln Ala Ala Gln Thr Val Trp Gln Arg Gln Arg
          355          360          365
Asp Glu Val Leu Pro Leu Gln Arg Gln Arg Leu Ala Val Leu Thr Ala
          370          375          380
Gln Tyr Arg Ser Gly Gln Ser Ala Leu Pro Ala Leu Leu Glu Ala Arg
385          390          395          400
Arg Gly Val Leu Asp Thr Glu Leu Ala Val Asn Gln Ala Glu Arg Glu
          405          410          415
Met Ala Arg Thr Trp Ala Ala Val Asn Trp Leu Ile Pro Gln Glu Leu
          420          425          430
Ala Gln
435

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<210> 9591

<211> 708

<212> PRT

<213> *Enterobacter cloacae*

<400> 9591

```

Gly Leu Gly Gln Asn Ala Asp Ala Gln Ala Ala Arg Arg Val Cys Arg
1          5          10          15
Gly Gly Thr Gly Val Cys Ala Val Pro Val Pro Pro Ala Leu Arg Ala
          20          25          30
Gly Gly Asp Gly Leu Ser Ala Ala Gly Asp Pro Arg Gly Phe Cys Gly
          35          40          45
Asp Ala Leu Ser Gly His Asn Ala Asn Met Met Ser Leu Gly Gly Ile
          50          55          60
Ala Ile Ala Ile Gly Ala Met Val Asp Ala Ala Ile Val Met Ile Glu
65          70          75          80
Asn Met His Lys Val Leu Glu Leu Trp Arg His Asp Asn Pro Gly Lys
          85          90          95
Glu Pro Ala Pro Gly Glu Tyr Trp Arg Leu Ala Glu Lys Ala Ala Val
          100          105          110
Glu Val Gly Pro Ala Leu Phe Cys Ser Leu Leu Ile Ile Thr Leu Ser
          115          120          125
Phe Ile Pro Val Phe Ser Leu Glu Ala Gln Glu Gly Arg Met Phe Ser

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130	135	140
Pro Leu Ala Phe Thr Lys	Thr Trp Ser Met Ala	Val Ala Ala Gly Leu
145	150	155
Gly Ile Thr Leu Val Pro	Val Leu Met Gly Phe	Phe Ile Arg Gly Lys
165	170	175
Ile Pro Asp Glu Lys Ala	Asn Pro Ile Asn Arg	Leu Leu Ile Arg Leu
180	185	190
Tyr Glu Pro Leu Leu Asp	Lys Val Leu Thr Phe	Pro Lys Thr Thr Leu
195	200	205
Ala Leu Ala Cys Leu Leu	Leu Ile Ala Thr Leu	Trp Pro Leu Ser Arg
210	215	220
Leu Gly Ser Glu Phe Met	Pro Pro Leu Asp Glu	Gly Asp Leu Leu Tyr
225	230	235
Met Pro Ser Thr Leu Pro	Gly Ile Ser Ala Arg	Glu Ala Ser Arg Leu
245	250	255
Leu Gln Gln Thr Asp Arg	Leu Ile Lys Ser Val	Pro Glu Val Ala Ser
260	265	270
Val Phe Gly Lys Ala Gly	Arg Ala Glu Ser Ala	Thr Asp Pro Ala Pro
275	280	285
Leu Thr Met Leu Glu Thr	Thr Thr Ile His Phe	Lys Pro Arg Glu Gln Trp
290	295	300
Arg Pro Gly Met Thr Pro	Gln Lys Leu Val Glu	Glu Leu Asp Lys Thr
305	310	315
Val Ser Leu Pro Gly Ile	Ala Asn Val Trp Val	Pro Pro Val Arg Asn
325	330	335
Arg Leu Asp Met Leu Ala	Thr Gly Ile Lys Ser	Pro Val Gly Ile Lys
340	345	350
Val Asn Gly Asn Asn Ile	Ala Asp Ile Glu Arg	Val Ala Arg Gln Ile
355	360	365
Glu Gln Val Val Lys Asp	Val Pro Gly Val Ser	Ser Ala Leu Ala Glu
370	375	380
Arg Leu Glu Gly Gly Arg	Tyr Val Asp Ile Arg	Ile Asp Arg Gln Lys
385	390	395
Ala Ala Arg Tyr Gly Val	Ser Val Asp Glu Leu	Gln Ser Leu Val Ser
405	410	415
Thr Leu Val Gly Gly Asp	Asn Ile Gly Glu Val	Ile Gln Gly Arg Glu
420	425	430
Arg Tyr Pro Ile Asn Leu	Arg Tyr Pro Arg Asp	Leu Arg Asp Asn Val
435	440	445
Asp Ala Leu Arg Val Leu	Pro Val Val Thr Ala	Ser Gly Ser Gln Val
450	455	460
Ala Leu Gly Glu Leu Ala	Asp Ile Val Val Thr	Glu Gly Pro Pro Met
465	470	475
Leu Lys Ser Glu Asn Ala	Arg Leu Ser Ser Trp	Ile Tyr Val Asp Leu
485	490	495
Arg Gly Arg Asp Leu Lys	Ser Ala Val Asp Glu	Met Gln Lys Arg Val
500	505	510
Glu Glu Lys Val Val Leu	Pro Gln Gly Val Ser	Leu Ser Trp Ser Gly
515	520	525
Gln Phe Glu Tyr Leu Glu	Arg Ala Thr Ala Arg	Leu Lys Ile Val Leu
530	535	540
Pro Val Thr Leu Met Ile	Ile Phe Val Leu Leu	Trp Leu Thr Phe Arg
545	550	555
Arg Ile Ser Asn Val Leu	Ile Ile Met Gly Ala	Leu Pro Phe Ala Leu
565	570	575
Ile Gly Gly Val Trp Leu	Leu Leu Trp Leu Glu	Tyr Asn Leu Ser Val
580	585	590
Ala Gly Ala Val Gly Phe	Ile Ala Leu Ser Gly	Val Ala Ala Glu Phe
595	600	605
Gly Val Ile Met Val Leu	Tyr Leu Asn His Ala	Ile Asp Lys Tyr His
610	615	620

Arg Leu Glu Pro Glu Gly Gly Asn Thr Val Leu Met Arg Ala Ile His
 625 630 635 640
 Glu Gly Ala Val Leu Arg Val Arg Pro Lys Val Met Thr Val Ala Thr
 645 650 655
 Ile Met Ala Gly Leu Leu Pro Ile Met Trp Gly Ser Gly Ser Gly Ser
 660 665 670
 Glu Val Met Gln Arg Ile Ala Ala Pro Met Ile Gly Gly Met Val Thr
 675 680 685
 Ala Pro Leu Leu Ser Met Leu Val Ile Pro Ala Leu Tyr Lys Leu Leu
 690 695 700
 His Gln Arg
 705

<210> 9592

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 9592

Asn Ser Pro Cys Ala Arg Trp Arg Cys Asp Ala Ser Cys Ala Ser Arg
 1 5 10 15
 Ala Leu Pro Asn Leu Ser Cys Arg Thr Ala Trp Arg Ala Trp Met Arg
 20 25 30
 Phe Arg Ser Arg Arg Ser Ala Lys Leu Ile Arg Asn Ser Cys Ala Cys
 35 40 45
 Gly Leu Leu Asn Ala Pro Gly Ala Glu Glu Gln Arg Met Ala Ile Pro
 50 55 60
 Lys Leu Thr Ala Tyr Ala Leu Pro Thr Ala Ala Glu Leu Pro Thr Ser
 65 70 75 80
 Lys Val Asn Trp Ala Phe Glu Pro Glu Arg Ala Ala Leu Leu Ile His
 85 90 95
 Asp Met Gln Glu Tyr Phe Leu Asn Phe Trp Gly Glu Asn Ser Asp Met
 100 105 110
 Met Gln Gln Val Val Ala Asn Ile Ala Lys Leu Arg Ala Tyr Cys Lys
 115 120 125
 Glu His Asn Ile Pro Val Tyr Tyr Thr Ala Gln Pro Lys Asp Gln Ser
 130 135 140
 Asp Glu Asp Arg Ala Leu Leu Asn Asp Met Trp Gly Pro Gly Leu Thr
 145 150 155 160
 Arg Ser Pro Glu Gln Gln Arg Ile Val Ala Glu Leu Thr Pro Asp Glu
 165 170 175
 Ala Asp Thr Val Leu Val Lys Trp Arg Tyr Ser Ala Phe His Arg Ser
 180 185 190
 Pro Leu Glu Gln Met Leu Lys Glu Thr Gly Arg Asn Gln Leu Leu Ile
 195 200 205
 Thr Gly Val Tyr Ala His Ile Gly Cys Met Thr Thr Ala Thr Asp Ala
 210 215 220
 Phe Met Arg Asp Ile Lys Pro Phe Phe Ile Ala Asp Ala Leu Ala Asp
 225 230 235 240
 Phe Thr Arg Asp Glu His Leu Met Ser Leu Lys Tyr Val Ala Gly Arg
 245 250 255
 Ser Gly Arg Val Val Met Thr Asp Glu Leu Leu Pro Ser Val Pro Ala
 260 265 270
 Thr Lys Ala Ala Leu Arg Glu Leu Ile Leu Pro Leu Leu Asp Glu Ser
 275 280 285
 Asp Glu Pro Met Asp Asp Glu Asn Leu Ile Asp Tyr Gly Leu Asp Ser
 290 295 300
 Val Arg Met Met Ala Leu Ala Ala Arg Trp Arg Lys Val His Gly Asp
 305 310 315 320
 Ile Asp Phe Val Met Leu Ala Lys Asn Pro Thr Leu Asp Ala Trp Trp
 325 330 335

Ala Leu Leu Ser Arg Glu Val Lys
340 345

<210> 9593

<211> 713

<212> PRT

<213> Enterobacter cloacae

<400> 9593

His Leu Thr Val Ser Gln Gln Arg Thr Thr Thr Met Asn Asn Ser Gly
1 5 10 15
Lys Tyr Leu Thr Trp Ala Val Leu Ser Val Val Gly Ala Phe Ala Leu
20 25 30
Gly Tyr Ile Ala Leu Asn Arg Gly Glu Gln Ile Asn Ala Leu Trp Ile
35 40 45
Val Val Ala Ser Val Cys Ile Tyr Leu Ile Ala Tyr Arg Phe Tyr Gly
50 55 60
Arg Tyr Ile Ala Lys Thr Val Leu Gly Val Asp Gly Thr Arg Met Thr
65 70 75 80
Pro Ala Val Arg His Asn Asp Gly Leu Asp Tyr Val Pro Thr Asp Lys
85 90 95
Lys Val Leu Phe Gly His His Phe Ala Ala Gly Ala Gly Pro
100 105 110
Leu Val Gly Pro Val Leu Ala Ala Gln Met Gly Tyr Leu Pro Gly Met
115 120 125
Ile Trp Ile Leu Ala Gly Val Val Leu Ala Gly Ala Val Gln Asp Phe
130 135 140
Met Val Leu Phe Val Ser Thr Arg Arg Asp Gly Arg Ser Leu Gly Glu
145 150 155 160
Leu Val Lys Glu Glu Met Gly Ala Thr Ala Gly Val Ile Ala Leu Val
165 170 175
Ala Thr Phe Met Ile Met Val Ile Ile Leu Ala Val Leu Ala Met Ile
180 185 190
Val Val Lys Ala Leu Thr His Ser Pro Trp Gly Thr Tyr Thr Val Ala
195 200 205
Phe Thr Ile Pro Leu Ala Leu Phe Met Gly Ile Tyr Ile Arg Tyr Leu
210 215 220
Arg Pro Gly Arg Ile Gly Glu Val Ser Val Ile Gly Leu Val Phe Leu
225 230 235 240
Val Phe Ala Ile Ile Ser Gly Gly Trp Val Ala Glu Ser Pro Thr Trp
245 250 255
Ala Pro Phe Phe Asp Phe Thr Gly Val Gln Leu Thr Trp Met Leu Val
260 265 270
Gly Tyr Gly Phe Val Ala Ala Val Leu Pro Val Trp Leu Leu Ala
275 280 285
Pro Arg Asp Tyr Leu Ser Thr Phe Leu Lys Ile Gly Thr Ile Val Gly
290 295 300
Leu Ala Ile Gly Ile Leu Ile Met Arg Pro Thr Leu Thr Met Pro Ala
305 310 315 320
Leu Thr Lys Phe Ile Asp Gly Thr Gly Pro Val Trp Thr Gly Asn Leu
325 330 335
Phe Pro Phe Leu Phe Ile Thr Ile Ala Cys Gly Ala Val Ser Gly Phe
340 345 350
His Ala Leu Ile Ala Ser Gly Thr Thr Pro Lys Met Leu Ala Asn Glu
355 360 365
Asn Gln Ala Cys Leu Ile Gly Tyr Gly Gly Met Leu Met Glu Ser Phe
370 375 380
Val Ala Ile Met Ala Leu Val Ser Ala Cys Ile Ile Asp Pro Gly Val
385 390 395 400
Tyr Phe Ala Met Asn Ser Pro Met Ala Val Leu Ala Pro Ala Gly Thr
405 410 415

Val Asp Val Val Ala Ser Ala Ala Gln Val Val Ser Gly Trp Gly Phe
 420 425 430
 Ala Ile Thr Pro Glu Thr Leu Thr His Ile Ala Asn Glu Val Gly Glu
 435 440 445
 Gln Ser Ile Ile Ser Arg Ala Gly Gly Ala Pro Thr Leu Ala Val Gly
 450 455 460
 Met Ala Tyr Ile Leu His Gly Ala Leu Gly Gly Leu Met Asp Val Ser
 465 470 475 480
 Phe Trp Tyr His Phe Ala Ile Leu Phe Glu Ala Leu Phe Ile Leu Thr
 485 490 495
 Ala Val Asp Ala Gly Thr Arg Ala Ala Arg Phe Met Leu Gln Asp Leu
 500 505 510
 Leu Gly Val Ile Ser Pro Asn Leu Lys Arg Thr Asp Ser Leu Pro Ala
 515 520 525
 Asn Leu Leu Ala Thr Ala Leu Cys Val Leu Ala Trp Gly Tyr Phe Leu
 530 535 540
 His Gln Gly Val Val Asp Pro Leu Gly Gly Ile Asn Thr Leu Trp Pro
 545 550 555 560
 Leu Phe Gly Ile Ala Asn Gln Met Leu Ala Gly Met Ala Leu Met Leu
 565 570 575
 Cys Ala Val Val Leu Phe Lys Met Lys Arg Gln Arg Tyr Ala Trp Val
 580 585 590
 Ala Leu Val Pro Thr Ala Trp Leu Leu Ile Cys Thr Leu Thr Ala Gly
 595 600 605
 Trp Gln Lys Ala Phe Ser Pro Asp Asn Lys Val Gly Phe Leu Ala Ile
 610 615 620
 Ala Asn Lys Phe Gln Ala Met Ile Asp Ser Gly Lys Ile Pro Ala Gln
 625 630 635 640
 Tyr Thr Glu Ser Gln Leu Ser Gln Leu Val Phe Asn Asn Arg Leu Asp
 645 650 655
 Ala Gly Leu Thr Ile Phe Phe Met Val Val Val Val Leu Ala Leu
 660 665 670
 Tyr Ser Leu Lys Thr Ala Leu Ala Ala Leu Lys Val Asp Lys Pro Thr
 675 680 685
 Ala Lys Glu Thr Pro Tyr Glu Pro Met Pro Glu Asn Leu Asp Glu Ile
 690 695 700
 Val Thr Gln Ala Lys Gly Ala His
 705 710

<210> 9594

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 9594

His Tyr Gln Thr Pro Ser Pro Gln Pro Ser Pro Gln Arg Gly Glu Gly
 1 5 10 15
 Val Lys Val Pro Ser Pro Leu Trp Gly Glu Gly Gln Gly Glu Asn
 20 25 30
 Thr Asn Glu Lys Leu Ile Met Phe Asp Thr Leu Ser Lys Ala Gly Lys
 35 40 45
 Tyr Leu Gly Gln Ala Ala Lys Met Met Ile Gly Val Pro Asp Tyr Asp
 50 55 60
 Asn Tyr Val Glu His Met Arg Val Asn His Pro Asp Gln Thr Pro Met
 65 70 75 80
 Thr Tyr Glu Glu Phe Phe Arg Asp Arg Gln Asp Ala Arg Tyr Gly Gly
 85 90 95
 Lys Gly Gly Ala Lys Cys Cys
 100

<210> 9595

<211> 345

<212> PRT

<213> *Enterobacter cloacae*

<400> 9595

```

Arg Asp Thr Thr Leu Leu Phe Asn Arg Arg Asn Gly Val Val Ser Lys
1      5      10      15
Ala Leu Ser Val Ser Ala Ala Ala Ser Gly Arg Gln Gln Ile Phe Asp
20      25      30
Phe Leu Tyr Lys Trp Gly Met Leu Leu Thr Val Val Ala Leu Val Ala
35      40      45
Val Phe Gly Leu Ala Ser Asp Ser Phe Leu Asp Pro Asn Asn Ile Ile
50      55      60
Asn Ile Leu Arg Ser Ile Ala Ile Val Thr Val Ile Ala Ile Gly Val
65      70      75      80
Ser Ile Ser Leu Thr Val Gly Gly Phe Asp Leu Ser Val Gly Ser Thr
85      90      95
Ala Ser Leu Ala Asn Ala Leu Val Ile Ser Leu Phe Val Trp His Gly
100     105     110
Phe Gly Thr Thr Glu Ser Ile Val Ile Thr Leu Ala Leu Cys Thr Leu
115     120     125
Val Gly Leu Phe Asn Ala Phe Leu Ile Val Ile Leu Arg Ile Pro Asp
130     135     140
Met Leu Ala Thr Leu Ala Ser Leu Phe Val Ile Gln Gly Val Ala Met
145     150     155     160
Thr Tyr Ser Tyr Gly Gly Ser Ile Thr Glu Asn Met Val Leu Pro Ser
165     170     175
Gly Asp Met Ala Glu Gly Thr Ile Pro Ala Ala Phe Ser Leu Leu Gly
180     185     190
Gln Val Pro Thr Ile Val Ile Val Met Leu Val Val Thr Ile Leu Ala
195     200     205
Gln Leu Gly Leu Ser Leu Thr Thr His Gly Arg Arg Met Tyr Ala Ile
210     215     220
Gly Gly Asn Pro Glu Ala Ala Arg Leu Ser Gly Ile Arg Thr Thr Arg
225     230     235     240
Tyr Lys Val Ala Ala Tyr Val Ile Ala Ser Leu Leu Ala Gly Leu Gly
245     250     255
Gly Ile Leu Leu Ala Ser Arg Ile Gly Ser Ser Gln Val Asn Ala Gly
260     265     270
Gly Gly Tyr Leu Met Asp Ala Val Ala Ala Trp Ile Gly Phe Ser
275     280     285
Leu Ala Gly Ser Gly Lys Pro Asn Ala Leu Gly Thr Leu Val Gly Ala
290     295     300
Val Ile Leu Gly Val Leu Ser Asn Gly Leu Val Met Leu Ser Val Pro
305     310     315     320
Tyr Tyr Ala Met Asp Ile Ile Lys Gly Leu Val Leu Ala Val Ala Leu
325     330     335
Ala Ile Thr Tyr Ile Gln Lys Arg
340      345

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<210> 9596

<211> 414

<212> PRT

<213> *Enterobacter cloacae*

<400> 9596

```

Thr Ser Lys Arg Leu Asp Cys Gln Arg Leu Thr Ser Cys Tyr Ser Val
1      5      10      15
Ser Asn Ile Ser Ile Thr Gly Arg His Thr Thr Met Ser Asn Asn Pro
20      25      30
Leu Ile Pro Gln Ser Lys Leu Pro Asn Leu Gly Thr Thr Ile Phe Thr

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      35              40              45
Gln Met Ser Ala Leu Ala Gln Gln His Asn Ala Ile Asn Leu Ser Gln
50              55              60
Gly Phe Pro Asp Phe Asp Gly Pro Lys Tyr Leu Gln Glu Arg Leu Ala
65              70              75              80
Tyr His Val Ala Gln Gly Ala Asn Gln Tyr Ala Pro Met Thr Gly Val
      85              90              95
Gln Thr Leu Arg Glu Ala Ile Ala Asp Lys Thr Ala Glu Leu Tyr Gly
100              105              110
His Lys Pro Asp Ala Asn Ser Asp Ile Thr Val Thr Ala Gly Ala Thr
115              120              125
Glu Ala Leu Tyr Ala Ala Ile Thr Ala Leu Val Arg Thr Gly Asp Glu
130              135              140
Val Ile Cys Phe Asp Pro Ser Tyr Asp Ser Tyr Ala Pro Ala Ile Glu
145              150              155              160
Leu Ala Gly Gly Val Val Lys Arg Val Ala Leu Gln Pro Pro His Phe
      165              170              175
Arg Pro Asp Trp Gln Ala Phe Ala Ala Leu Leu Ser Asp Lys Thr Arg
180              185              190
Leu Val Ile Leu Asn Thr Pro His Asn Pro Ser Ala Thr Val Trp Gln
195              200              205
Lys Ala Asp Phe Ala Ala Leu Trp Gln Ala Ile Ala Glu Arg Glu Ile
210              215              220
Tyr Val Leu Ser Asp Glu Val Tyr Glu His Ile Cys Phe Ala Glu Glu
225              230              235
Gly His Ala Ser Val Leu Ala His Pro Gln Leu Arg Glu Arg Ala Ile
      245              250              255
Ala Val Ser Ser Phe Gly Lys Thr Tyr His Met Thr Gly Trp Lys Val
260              265              270
Gly Tyr Cys Val Ala Pro Ala Ala Ile Ser Ala Glu Leu Arg Lys Val
275              280              285
His Gln Tyr Leu Thr Phe Ala Val Asn Thr Pro Ala Gln Leu Ala Leu
290              295              300
Ala Asp Met Leu Arg Ala Glu Pro Gly His Tyr Arg Glu Leu Pro His
305              310              315              320
Phe Tyr Arg Glu Arg Arg Asp Leu Phe Val Ala Ala Leu Ser Lys Ser
      325              330              335
Arg Leu Glu Ile Leu Pro Ser Glu Gly Thr Tyr Phe Leu Leu Ala Asp
340              345              350
Tyr Ser Ala Ile Ser Asp Leu Asp Asp Val Ser Phe Cys Gln Leu Leu
355              360              365
Thr Lys Glu Val Gly Val Ala Ala Ile Pro Leu Ser Val Phe Cys Ala
370              375              380
Asp Pro Phe Pro His Lys Leu Ile Arg Leu Cys Phe Ala Lys Gln Glu
385              390              395              400
Ser Thr Leu Leu Ala Ala Ala Glu Arg Leu Ala Thr Leu
      405              410

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<210> 9597

<211> 535

<212> PRT

<213> Enterobacter cloacae

<400> 9597

```

Gly Gly Leu His Asp Asp Val Leu Arg Glu Gly Arg Ile Met Leu Asp
1              5              10              15
Thr Asn Met Lys Thr Gln Leu Lys Ala Tyr Leu Glu Lys Leu Thr Lys
      20              25              30
Pro Val Glu Leu Ile Ala Thr Leu Asp Asp Ser Ala Lys Ser Ala Glu
35              40              45
Ile Lys Ala Leu Leu Thr Glu Ile Ala Glu Leu Ser Pro Lys Val Thr

```

50						55						60					
Phy	Leu	Glu	Asp	Asn	Thr	Leu	Ala	Val	Arg	Lys	Pro	Ser	Phe	Leu	Ile		
65	65				70					75					80		
Ala	Asn	Pro	Gly	Ser	Asp	Gln	Gly	Pro	Arg	Phe	Ala	Gly	Ser	Pro	Leu		
				85					90					95			
Gly	His	Glu	Phe	Thr	Ser	Leu	Val	Leu	Ala	Leu	Leu	Trp	Thr	Gly	Gly		
			100					105					110				
His	Pro	Ser	Lys	Glu	Ala	Gln	Ala	Leu	Leu	Glu	Gln	Ile	Arg	Asp	Ile		
			115					120				125					
Asp	Gly	Asp	Phe	Glu	Phe	Glu	Thr	Tyr	Tyr	Ser	Leu	Ser	Cys	His	Asn		
						135					140						
Cys	Pro	Asp	Val	Val	Gln	Ala	Leu	Asn	Leu	Met	Ser	Val	Leu	Asn	Pro		
145					150					155				160			
Arg	Ile	Lys	His	Thr	Ala	Ile	Asp	Gly	Gly	Thr	Phe	Gln	Asn	Glu	Ile		
				165					170					175			
Thr	Glu	Arg	Asn	Val	Met	Gly	Val	Pro	Ala	Val	Tyr	Leu	Asn	Gly	Gln		
			180					185					190				
Glu	Phe	Gly	Gln	Gly	Arg	Met	Thr	Leu	Thr	Glu	Ile	Val	Ala	Lys	Val		
			195				200					205					
Asp	Thr	Gly	Ala	Glu	Lys	Arg	Ala	Ala	Glu	Glu	Leu	Asn	Gln	Arg	Asp		
						215					220						
Ala	Tyr	Asp	Val	Leu	Ile	Val	Gly	Ser	Gly	Pro	Ala	Gly	Ala	Ala	Ala		
225					230					235				240			
Ala	Val	Tyr	Ser	Ala	Arg	Lys	Gly	Ile	Arg	Thr	Gly	Leu	Met	Gly	Glu		
				245					250					255			
Arg	Phe	Gly	Gly	Gln	Val	Leu	Asp	Thr	Val	Asp	Ile	Glu	Asn	Tyr	Ile		
			260					265					270				
Ser	Val	Pro	Lys	Thr	Glu	Gly	Gln	Lys	Leu	Ala	Gly	Ala	Leu	Lys	Ala		
			275					280				285					
His	Val	Ser	Asp	Tyr	Asp	Val	Asp	Val	Ile	Asp	Ser	Gln	Ser	Ala	Ser		
					295						300						
Lys	Leu	Val	Pro	Ala	Ala	Val	Glu	Gly	Gly	Leu	His	Gln	Ile	Glu	Thr		
305					310					315				320			
Ala	Ser	Gly	Ala	Val	Leu	Lys	Ala	Arg	Ser	Val	Ile	Ile	Ala	Thr	Gly		
				325					330					335			
Ala	Lys	Trp	Arg	Asn	Met	Asn	Val	Pro	Gly	Glu	Asp	Gln	Tyr	Arg	Thr		
			340					345					350				
Lys	Gly	Val	Thr	Tyr	Cys	Pro	His	Cys	Asp	Gly	Pro	Leu	Phe	Lys	Gly		
			355					360				365					
Lys	Arg	Val	Ala	Val	Ile	Gly	Gly	Gly	Asn	Ser	Gly	Val	Glu	Ala	Ala		
					375						380						
Ile	Asp	Leu	Ala	Gly	Ile	Val	Glu	His	Val	Thr	Leu	Leu	Glu	Phe	Ala		
385					390					395				400			
Pro	Glu	Met	Lys	Ala	Asp	Gln	Val	Leu	Gln	Asp	Lys	Val	Arg	Ser	Leu		
				405					410								

<400> 9598

Ala	Tyr	Pro	His	Pro	Phe	Gly	Gly	Cys	Met	Lys	Ala	Leu	Thr	Tyr	His
1				5					10					15	
Gly	Pro	His	His	Val	Arg	Val	Asp	Asn	Val	Pro	Asp	Pro	Gly	Ile	Glu
			20					25					30		
Gln	Pro	Asp	Asp	Ile	Ile	Leu	Arg	Val	Thr	Ala	Thr	Ala	Ile	Cys	Gly
		35					40					45			
Ser	Asp	Leu	His	Leu	Tyr	Arg	Gly	Lys	Ile	Pro	Lys	Val	Gln	His	Gly
	50					55					60				
Asp	Ile	Phe	Gly	His	Glu	Phe	Met	Gly	Glu	Val	Val	Glu	Cys	Gly	Ser
					70					75					80
Glu	Val	Lys	Asn	Val	Gln	Lys	Gly	Asp	Arg	Val	Val	Ile	Pro	Phe	Val
				85					90					95	
Ile	Ala	Cys	Gly	Asp	Cys	Phe	Phe	Cys	Gln	Met	Gln	Gln	Tyr	Ala	Ala
			100					105					110		
Cys	Glu	Asn	Thr	Asn	Arg	Gly	Gln	Gly	Ala	Ala	Leu	Asn	Lys	Lys	Gln
		115					120					125			
Ile	Pro	Ala	Pro	Ala	Ala	Leu	Phe	Gly	Tyr	Ser	His	Leu	Tyr	Gly	Gly
						135					140				
Val	Pro	Gly	Gly	Gln	Ala	Glu	Tyr	Val	Arg	Val	Pro	Lys	Gly	Asn	Val
	145				150					155					160
Gly	Pro	Phe	Lys	Val	Pro	Gln	Leu	Leu	Ser	Asp	Asp	Lys	Ala	Leu	Phe
				165					170					175	
Leu	Ser	Asp	Ile	Leu	Pro	Thr	Ala	Trp	Gln	Gln	Ala	Lys	Asn	Ala	Gln
			180					185					190		
Ile	Gln	Arg	Gly	Ser	Ser	Val	Ala	Val	Phe	Gly	Ala	Gly	Pro	Val	Gly
		195					200					205			
Leu	Leu	Thr	Ile	Ala	Cys	Ala	Arg	Leu	Leu	Gly	Ala	Glu	Gln	Ile	Phe
	210					215					220				
Val	Val	Asp	His	His	Pro	Tyr	Arg	Leu	Arg	Phe	Ala	Gln	Glu	Arg	Tyr
	225				230					235					240
Gly	Ala	Ile	Pro	Ile	Asn	Phe	Asp	Asp	Asp	Asn	Asp	Ala	Ala	Glu	Lys
				245					250					255	
Ile	Ile	Glu	Gln	Thr	Ala	Gly	Gln	Arg	Gly	Val	Asp	Ala	Val	Ile	Asp
		260						265					270		
Ala	Val	Gly	Phe	Glu	Ala	Lys	Gly	Ser	Thr	Thr	Glu	Thr	Ile	Leu	Ser
		275					280						285		
Asn	Leu	Lys	Ile	Glu	Gly	Ser	Ser	Gly	Lys	Ala	Leu	Arg	Gln	Cys	Ile
	290					295				300					
Ala	Ala	Val	Arg	Arg	Gly	Gly	Val	Val	Ser	Val	Pro	Gly	Val	Tyr	Ala
	305				310					315					320
Gly	Phe	Ile	His	Gly	Phe	Phe	Phe	Gly	Asp	Ala	Phe	Asp	Lys	Gly	Leu
				325					330					335	
Ser	Phe	Lys	Met	Gly	Gln	Thr	His	Val	His						

<210> 9599
 <211> 78
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9599
 Gly Thr Ala Arg Glu Phe Pro Val Asp Ser Ile Ala Cys Ala Gln Ser
 1 5 10 15
 Lys Gln Arg Arg Ala His Gly Cys Gln His Arg Gln Leu Arg Ala Ala
 20 25 30
 Val Gly His Leu Arg Arg Ile Asp Gln Arg Thr Gly Glu Leu Leu Ala
 35 40 45
 Gly Gly Gln Val Ala Glu Leu His Leu Ala Val His Gly Asp His Ile
 50 55 60
 Met Arg His Gly Leu Arg Arg Thr His Leu Arg Pro Val
 65 70 75

<210> 9600
 <211> 112
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9600
 Phe Val Asp Phe Ile Tyr Leu Thr Phe Asn Arg Ser Phe Ile Met Arg
 1 5 10 15
 Thr Val Phe Leu Ser Ala Leu Val Gly Ala Ser Val Ser Phe Ala Ser
 20 25 30
 Tyr Thr Ala Gln Ala Asn Gln Thr Trp Gln Gly Arg Gly Val Val Gln
 35 40 45
 Ser Ile Ser Asp Ser Ala Val Met Leu Arg His Glu Ala Ile Pro Glu
 50 55 60
 Leu Lys Trp Pro Ala Met Thr Met Pro Phe Thr Leu Ser Ala Gly Ala
 65 70 75 80
 Thr Leu Asn Gly Ala Lys Pro Gly Asp Glu Val Thr Phe Thr Leu Glu
 85 90 95
 Arg Ala Gly Asp Gly Phe Lys Ile Ile Ser Leu Thr Pro Ala Arg
 100 105 110

<210> 9601
 <211> 396
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9601
 Arg Asp Ala Gly Gly Asp Ala Met Ile Ala Ala Val Ile Arg Ala Ser
 1 5 10 15
 Leu Arg Asn Arg Leu Leu Val Ile Leu Ala Ala Leu Met Met Ala Gly
 20 25 30
 Trp Gly Trp Trp Ala Val Gln Arg Ala Pro Leu Asp Ala Leu Pro Asp
 35 40 45
 Leu Ser Asp Val Gln Val Ile Ile Lys Ala Ser Tyr Pro Gly Lys Ala
 50 55 60
 Pro Gln Val Ile Glu Asp Gln Val Thr Trp Pro Leu Thr Thr Ser Met
 65 70 75 80
 Leu Ser Val Pro Gly Ala Lys Thr Val Arg Gly Phe Ser Met Phe Gly
 85 90 95
 Asp Ala Tyr Val Tyr Val Leu Phe Glu Asp Gly Thr Asp Leu Tyr Trp
 100 105 110
 Ala Arg Ser Arg Val Leu Glu Tyr Leu Ser Gln Val Gln Ala Gln Phe
 115 120 125

Pro Gly Val Lys Val Ser Leu Gly Pro Asp Ala Thr Gly Val Gly
 130 135 140
 Trp Ile Tyr Glu Tyr Ala Leu Ile Asp Arg Ser Gly Lys His Ser Leu
 145 150 155 160
 Ala Asp Leu Arg Ala Leu Gln Asp Trp Thr Leu Lys Phe Glu Leu Lys
 165 170 175
 Thr Val Pro Asn Val Ser Glu Val Ala Ser Ile Gly Gly Met Val Arg
 180 185 190
 Gln Tyr Gln Ile Val Ala Asp Pro Ala Lys Met Arg Ala Leu Asn Ile
 195 200 205
 Thr His Ser Gln Leu Ser Gly Ala Val Gln Ala Ala Asn Lys Glu Ser
 210 215 220
 Gly Gly Ala Leu Leu Glu Met Gly Glu Ala Glu Tyr Met Val Arg Thr
 225 230 235 240
 Thr Gly Tyr Leu Arg Ser Leu Glu Asp Phe Arg Asn Val Val Ile Ala
 245 250 255
 Thr Arg Asp Gly Val Pro Val Leu Leu Lys Asp Val Ala Thr Ile Gly
 260 265 270
 Ile Gly Pro Glu Ile Arg Arg Ser Val Ala Glu Leu Asn Gly Glu Gly
 275 280 285
 Glu Val Ala Gly Gly Val Ile Val Met Arg Tyr Gly Gln Asn Ala Leu
 290 295 300
 Glu Thr Leu His Ala Val Lys Ala Lys Leu Ser Glu Leu Gln Lys Thr
 305 310 315 320
 Leu Pro Gln Gly Val Glu Ile Val Pro Val Tyr Asp Arg Ser Thr Leu
 325 330 335
 Ile Glu Asp Ser Val Lys Thr Leu Thr His Lys Leu Leu Glu Glu Phe
 340 345 350
 Ala Val Val Val Leu Val Cys Ala Leu Phe Leu Phe His Leu Arg Ser
 355 360 365
 Ala Leu Val Ala Met Val Ser Leu Pro Leu Gly Ile Leu Gly Ala Phe
 370 375 380
 Val Val Met His Tyr Gln Gly Ile Thr Arg Ile
 385 390 395

<210> 9602

<211> 334

<212> PRT

<213> *Enterobacter cloacae*

<400> 9602

Asn Ser Ser Arg Ile Thr Ser Pro Thr Pro Val Ser Ser Gly Ser Phe
 1 5 10 15
 Cys Asn Ile Arg Val Arg Ile Pro Ser Val Thr Thr Ser Ser Arg Val
 20 25 30
 Asp Gly Pro Thr Gln Val Ser Ala Arg Ile Arg Tyr Pro Thr Val Ser
 35 40 45
 Pro Gly Phe Ser Phe Ser Ser Ala Arg Arg Cys Ala Thr Leu Arg
 50 55 60
 Ala Ala Ser Leu Arg Gly Ser Ser Arg Ile Ile Phe Pro Leu Met Phe
 65 70 75 80
 Pro Ser Arg Arg Ile Cys Arg Gly Ser Gln Val Asp Leu Pro Ala Pro
 85 90 95
 Val Gly Ala Leu Ser Lys Thr Cys Gly Ala Cys Ser Lys Ala Ala Ser
 100 105 110
 Ser Ser Gly Arg Thr Thr Ala Thr Gly Lys Glu Asp Thr Tyr Gly Ser
 115 120 125
 Arg Gly Leu Thr Leu Ile Gly Val His Cys Ser Ile Gly Ala Tyr His
 130 135 140
 Tyr Arg Val Leu Arg Met Ser Glu Ser Lys Arg Leu Phe Phe Ala Ile
 145 150 155 160

Glu Leu Pro Thr Thr Leu Gln Arg Gln Ile Val Arg Trp Arg Ala Ser
 165 170 175
 His Phe Pro Ala Glu Ala Gly Arg Pro Val Val Ala Ala Asn Met His
 180 185 190
 Leu Thr Leu Ala Phe Leu Gly Glu Val Ser Ala Glu Lys Gln Arg Ala
 195 200 205
 Leu Ser Ala Met Ala Gly Arg Ile Ser Gln Pro Gly Phe Thr Leu His
 210 215 220
 Leu Asp Asp Ala Gly Gln Trp Leu Arg Ser Arg Val Val Trp Leu Gly
 225 230 235 240
 Thr Arg Gln Pro Pro Arg Gly Leu Leu Gln Leu Ala Asn Met Leu Arg
 245 250 255
 Ala Gln Ala Ala Arg Ser Gly Cys Tyr Gln Ser Pro Gln Pro Phe His
 260 265 270
 Pro His Ile Thr Leu Leu Arg Asp Ala Gly Gln Ala Val Ala Ile Pro
 275 280 285
 Pro Pro Gly Phe His Trp Ser Phe Gln Val Asn Glu Phe Ala Leu Tyr
 290 295 300
 Glu Ser Ala Phe Val Gln Gly Arg Thr Arg Tyr Thr Pro Leu Gln Arg
 305 310 315 320
 Trp Thr Leu Gly Asp Thr Leu Arg Asn Pro Asp Glu Val
 325 330

<210> 9603

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 9603

Cys Val Leu Arg Arg Ser Asn Met Gln Glu Gly Gln Asn Arg Lys Thr
 1 5 10 15
 Ser Ser Leu Ser Ile Leu Ala Ile Ala Gly Val Glu Pro Tyr Gln Glu
 20 25 30
 Lys Pro Gly Glu Glu Tyr Met Asn Glu Ala Gln Leu Ser His Phe Lys
 35 40 45
 Arg Ile Leu Glu Ala Trp Arg Asn Gln Leu Arg Asp Glu Val Asp Arg
 50 55 60
 Thr Val Thr His Met Gln Asp Glu Ala Ala Asn Phe Pro Asp Pro Val
 65 70 75 80
 Asp Arg Ala Ala Gln Glu Glu Glu Phe Ser Leu Glu Leu Arg Asn Arg
 85 90 95
 Asp Arg Glu Arg Lys Leu Ile Lys Lys Ile Glu Lys Thr Leu Lys Lys
 100 105 110
 Val Glu Asp Glu Asp Phe Gly Tyr Cys Glu Ser Cys Gly Val Glu Ile
 115 120 125
 Gly Ile Arg Arg Leu Glu Ala Arg Pro Thr Ala Asp Leu Cys Ile Asp
 130 135 140
 Cys Lys Thr Leu Ala Glu Ile Arg Glu Lys Gln Met Ala Gly
 145 150 155

<210> 9604

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 9604

Val Arg Arg Leu Ser Gly Arg Arg Thr Gln Phe Pro Leu Arg Ser Pro
 1 5 10 15
 Gly Val Leu Ile Ile Glu Thr Leu Pro Leu Leu Arg Gln His Ile Arg
 20 25 30
 Arg Ala Arg Gln Glu Gly Lys Arg Ile Ala Leu Val Pro Thr Met Gly

```

      35              40              45
Asn Leu His Asp Gly His Met Lys Leu Val Asp Glu Ala Arg Ala Arg
50
Ala Asp Ile Val Val Val Ser Ile Phe Val Asn Pro Met Gln Phe Asp
65
Arg Glu Asp Asp Leu Ala Arg Tyr Pro Arg Thr Leu Gln Glu Asp Cys
85
Glu Lys Leu Lys Lys Arg His Ala Asp Ile Val Phe Ala Pro Ala Pro
100
Ala Asp Val Tyr Pro Gln Gly Thr Thr Glu Ser Thr Tyr Val Asp Val
115
Pro Gly Ile Ser Thr Met Leu Glu Gly Ala Ser Arg Pro Gly His Phe
130
Arg Gly Val Ser Thr Ile Val Ser Lys Leu Phe Asn Leu Val Gln Pro
145
Asp Ile Ala Cys Phe Gly Glu Lys Asp Phe Gln Leu Ala Leu Ile
165
Arg Lys Met Val Ala Asp Met Gly Tyr Asp Ile Glu Ile Ile Gly Val
180
Pro Ile Val Arg Ala Lys Asp Gly Leu Ala Leu Ser Ser Arg Asn Gly
195
Tyr Leu Thr Ala Glu Gln Arg Lys Ile Ala Pro Gly Leu Ser Lys Val
210
Met Asn Thr Met Ala Glu Gln Leu Leu Ala Lys Glu Leu Thr Ala Glu
225
Glu Ile Ile Ala Leu Ala Glu Gln Ala Leu Asn Glu Lys Gly Leu Arg
245
Ala Asp Asp Val Gln Ile Arg Asp Ala Asp Thr Leu Leu Ala Leu Thr
260
Glu Thr Ser Lys Arg Ala Val Ile Leu Val Ala Ala Trp Leu Gly Gln
275
Ala Arg Leu Ile Asp Asn Lys Val Val Glu Leu Ala
290
295
300

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<210> 9605

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 9605

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Lys Met Ser Phe Asn Lys Leu Gly Leu Ala Thr Val Val Ala Met Val
1
Leu Ser Ala Gly Ser Ala Met Ala Ala Asp Ile Pro Ser Asp Thr Gly
20
Thr Ile Thr Phe His Gly Met Val Ser Asn Asn Thr Cys Lys Val Ser
35
Leu Asp Gln Lys Ile Asp Gln Asp Gly Asn Asp Phe Asp Val Asn Leu
50
Asp Thr Val Phe Val Lys Asp Phe Ala Asn Ala Leu Gly Thr Thr Ser
65
Thr Leu Gly Glu Lys Lys Phe Ser Leu Thr Thr Gly Cys Asp Ser
85
Ala Thr Val Lys Gln Ala Ser Ala Gln Phe Asp Ser Trp Ala Gly Ser
100
Ser Ser Thr Ser Gly Gly Leu Leu Val Pro Pro Ser Asn Thr Gln Gly
115
Ala Ala Lys Asn Val Asn Leu Val Leu Ser Asn Asp Gly Asn Ser Ala
130
Thr Asp Gln Ile Lys Leu Asp Gln Thr Asn Asn Thr Gln Lys Ala Thr
145
Ile Asp Thr Thr Gly Ala Gly Ala Leu Tyr Tyr Arg Val Ala Tyr Thr
150
155
160

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165										170					175		
Gln	Gly	Gln	Asn	Trp	Asp	Ala	Ala	Asn	Asn	Pro	Val	Ser	Ala	Gly	Val		
			180					185					190				
Val	Gln	Ala	Gln	Ala	Ala	Phe	Thr	Met	Ile	Tyr	Glu						
		195					200					205					

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<210> 9606
<211> 209
<212> PRT
<213> Enterobacter cloacae
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400> 9606																		
Ser	Thr	Val	Pro	Asn	Val	Met	Met	Leu	Lys	Gln	Gly	Ile	Thr	Pro	Met			
1				5				10						15				
Gly	Asn	Asn	Met	20	Lys	Lys	Asn	His	Cys	Gly	Tyr	Ser	Leu	Ile	Ala	Leu		
								25						30				
Ala	Met	Leu	Ala	35	Met	Ser	Gly	Ser	Ala	Ala	Ala	Ala	Asp	Leu	Asn	Val		
								40					45					
Asn	Phe	Thr	Ala	50	Asn	Ile	Arg	Glu	Thr	Thr	Cys	Asp	Met	Lys	Leu	Val		
								55				60						
Gly	Asp	Thr	Gly	65	Ser	Asp	Thr	Gln	Gln	Thr	Leu	Thr	Ile	Gly	Asn	Asn		
								70				75				80		
Gly	Gln	Val	Arg	85	Leu	Asp	Asp	Val	Lys	Asp	Gly	Thr	Ala	Asn	Ala	Asn		
											90				95			
Phe	Lys	Ile	Val	100	Leu	Val	Glu	Cys	Pro	Ala	Ser	Leu	Thr	Ser	Leu	Lys		
									105					110				
Thr	Lys	Val	Ser	115	Gly	Thr	Arg	Ser	Gly	Tyr	Leu	Tyr	Ser	Gly	Leu	Ile		
									120				125					
Asn	Gln	Ile	Gln	130	Lys	Ile	Asp	Gly	Gly	Ala	Asp	Tyr	Ser	Ala	Val	Glu		
								135				140						
Ile	Ala	Arg	Ala	145	Ser	Ala	Pro	Asp	Ala	Pro	Phe	Ile	Ile	Asn	Ser	Glu		
								150			155					160		
Asp	Asp	Asn	Glu	165	Arg	Leu	Val	Trp	Ser	Pro	Thr	Glu	Ile	Gln	Asn	Lys		
											170				175			
Glu	Val	Ala	Leu	180	Val	Ala	Thr	Leu	Arg	Glu	Thr	Gln	Glu	Asn	Arg	Met		
									185					190				
Thr	Ile	Gly	Asp	195	Phe	Gln	Ala	Val	Ala	Thr	Phe	Glu	Phe	Ile	Tyr	Glu		
									200				205					

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<210> 9607
<211> 374
<212> PRT
<213> Enterobacter cloacae
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400> 9607																	
Arg	His	Leu	Arg	Ile	Ile	Ile	Arg	Thr	Gly	Lys	Arg	Met	Arg	Met	Phe		
1				5					10					15			
Asn	Phe	Ile	Arg	Gln	Gly	Phe	Thr	Val	Lys	Gly	Thr	Met	Ala	Phe	Ala		
			20					25					30				
Met	Ala	Ser	Val	Leu	Leu	Thr	Leu	Ser	His	Ser	Cys	Trp	Ala	Ala	Asp		
		35					40					45					
Cys	Arg	Met	Asn	Asn	Gly	Lys	Gly	Gly	Thr	Thr	Thr	Leu	Ile	Asn	Ser		
		50				55					60						
Glu	Tyr	Ser	Gly	Gly	Thr	Val	Arg	Leu	Pro	Pro	Pro	Gly	Asn	Tyr	Ala		
65					70					75					80		
Ser	Thr	Leu	Phe	Asn	Val	Asn	Leu	Thr	Pro	Gly	Ile	Gln	Ala	Glu	Cys		
				85					90					95			
Gly	Pro	Gly	Asn	Asp	Gly	Phe	Asn	Leu	Val	Ser	Gln	Thr	Asn	Pro	Thr		
		100						105					110				

```

Leu Leu Lys Gly Ser Ser Tyr Gly Arg Ala Met Phe Glu Thr Asn Ile
    115      120      125
Pro Gly Ile Tyr Tyr Ser Val Arg Val His Thr Ala Glu Ser Asp Gly
    130      135      140
Gly Met Gly Gly Tyr Phe Ala Met Asn Thr Thr Asp Trp Thr Thr Val
    145      150      155      160
Ala Ser Ser Gly Asn Ser Asp Pro Trp Asp Glu Lys Trp Ile Asn Thr
    165      170      175
Ser Val Gln Ile Tyr Ile Asp Ala Gly Tyr Arg Gly Asn Pro Asn Lys
    180      185      190
Glu Thr Ser Ile Arg Pro Lys Pro Gly Thr Leu Gly Lys Met Ala Ile
    195      200      205
Gly Asn Pro Asn Asp Ser Asn Asn Gln Pro Trp Thr Phe Val Val Asn
    210      215      220
Glu Asp Ser Phe Gln Ile Pro Ile Val Leu Pro Thr Cys Asp Met Ala
    225      230      235      240
Met Leu Ser Asp Gly Thr Asn Asp Val Asn Leu Gly Glu Tyr Tyr Val
    245      250      255
Ser Asp Ile Lys Asn Asn Arg Val Lys Asp Ile Pro Phe Ser Ile Ser
    260      265      270
Leu Ser Asn Cys Thr Ser Val Ala Asn Ile Thr Thr Lys Leu Thr Thr
    275      280      285
Ser Lys Leu Thr Gly Lys Asn Asn Asp Leu Leu Gly Asn Thr Leu Ser
    290      295      300
Ser Gly Ala Glu Gly Ala Gly Val Lys Ile Met Tyr Asn Gly Thr Ser
    305      310      315      320
Gln Leu Leu Pro Asn Asn Pro Asp Ser Ser Tyr Val Ile Thr Asp Tyr
    325      330      335
Gln Thr Pro Glu Ser Lys Gln Ile Asn Tyr Val Ala Gln Leu Val Ala
    340      345      350
Asn Gly Ser Thr Val Lys Pro Gly Ser Phe Lys Ala Thr Gly Val Phe
    355      360      365
Thr Leu Ser Tyr Asp
    370

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<210> 9608

<211> 601

<212> PRT

<213> Enterobacter cloacae

<400> 9608

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Pro Arg Thr His Gln Val Pro Pro Arg Gln Ala Ala Ala Gly Arg Asn
    1      5      10      15
His Ala Leu Pro Cys Pro Ala Leu Ser Ala Gly Glu Leu Gly Leu Pro
    20      25      30
Ala Val His Gly Ser Cys Thr Gly His His Ala His His Pro Arg His
    35      40      45
Gly Asp Phe Arg Leu Pro Asp Pro Gly Leu Asp Cys Asp Pro Arg Arg
    50      55      60
Gly Leu Tyr Gly Glu Thr Glu Lys Cys Gln Asn Gly Glu Ser Ala Leu
    65      70      75      80
Asn Val Phe Ser Leu Tyr Ser Arg Leu Arg Val Gln Arg Leu Val Thr
    85      90      95
Phe Leu Thr Asn Ser Arg Gln Gln Gln Asn Pro Pro Tyr His Arg Leu
    100      105      110
Tyr Ile Ala Thr His Ile Phe Val Cys Gln Arg Ile Ile Leu Ser Ile
    115      120      125
Pro Lys Pro Gly Glu Leu Ser Met Asn Asn Asn Lys Leu Ser Val Lys
    130      135      140
Glu Lys Ile Gly Tyr Gly Met Gly Asp Ala Gly Cys Asn Ile Ile Phe
    145      150      155      160

```

Gly Ala Ile Met Leu Phe Val Asn Tyr Phe Tyr Thr Asp Ile Phe Gly
 165 170 175
 Leu Ala Pro Ala Leu Val Gly Val Leu Leu Ser Val Arg Val Ile
 180 185 190
 Asp Ala Val Thr Asp Pro Ile Met Gly Ala Ile Ala Asp Arg Thr Arg
 195 200 205
 Ser Lys Tyr Gly Arg Phe Arg Pro Trp Leu Leu Trp Ile Ala Phe Pro
 210 215 220
 Tyr Ala Leu Phe Ser Ile Leu Met Phe Thr Thr Pro Glu Trp Ser Tyr
 225 230 235 240
 Asn Ser Lys Val Ile Tyr Ala Phe Val Thr Tyr Phe Leu Leu Ser Leu
 245 250 255
 Thr Tyr Thr Ala Ile Asn Ile Pro Tyr Cys Ser Leu Gly Gly Val Ile
 260 265 270
 Thr Asn Asp Pro Lys Glu Arg Val Ala Cys Gln Ser Tyr Arg Phe Val
 275 280 285
 Met Val Gly Ile Ala Thr Leu Leu Ser Leu Thr Leu Leu Pro Met
 290 295 300
 Ala Asp Trp Phe Gly Gly Asp Asn Lys Ala Lys Gly Tyr Gln Met Ala
 305 310 315 320
 Met Thr Val Leu Ala Leu Ile Gly Thr Cys Met Phe Leu Phe Cys Phe
 325 330 335
 Ala Thr Val Arg Glu Arg Val Arg Pro Ala Val Gln Thr His Asp Glu
 340 345 350
 Leu Lys Asn Asp Leu Lys Asp Val Trp Lys Asn Asp Gln Trp Val Arg
 355 360 365
 Ile Leu Leu Leu Thr Leu Cys Asn Val Cys Pro Gly Phe Ile Arg Met
 370 375 380
 Ala Ala Thr Met Tyr Tyr Val Thr Trp Val Met Gly Gln Ser Thr His
 385 390 395 400
 Phe Ala Thr Leu Phe Ile Ser Leu Gly Val Val Gly Met Met Phe Gly
 405 410 415
 Ser Met Leu Ala Lys Val Leu Thr Asp Arg Trp Cys Lys Leu Lys Val
 420 425 430
 Phe Phe Trp Thr Asn Ile Ala Leu Ala Ile Phe Ser Cys Ala Phe Tyr
 435 440 445
 Phe Phe Asp Pro Lys Ala Thr Thr Thr Ile Val Val Leu Tyr Val Leu
 450 455 460
 Leu Asn Ile Leu His Gln Ile Pro Ser Pro Leu His Trp Ser Leu Met
 465 470 475 480
 Ala Asp Val Asp Asp Tyr Gly Glu Trp Lys Thr Gly Lys Arg Ile Thr
 485 490 495
 Gly Ile Ser Phe Ser Gly Asn Ile Phe Phe Leu Lys Leu Gly Leu Ala
 500 505 510
 Ile Ala Gly Ala Met Val Gly Phe Leu Leu Ser Trp Tyr Gly Tyr Asp
 515 520 525
 Ala Gly Ala Lys Ala Gln Ser Ala Asp Ala Ile Asn Gly Ile Val Leu
 530 535 540
 Leu Phe Thr Val Ile Pro Gly Ile Gly Tyr Leu Ile Thr Ala Gly Val
 545 550 555 560
 Val Arg Leu Leu Lys Val Asp Arg Glu Thr Met Lys Gln Ile Gln Ser
 565 570 575
 Asp Leu Glu Lys Arg Arg Thr Asn Tyr Arg Glu Leu Asn Asp Tyr Gln
 580 585 590
 Glu Leu Lys Ala Ala Glu Thr Lys
 595 600

<210> 9609

<211> 329

<212> FRT

<213> Enterobacter cloacae

<400> 9609

Gln His Ala Gly Thr Pro Tyr Leu Trp Cys Cys Tyr Ser Val Gln Ser
 1 5 10 15
 Ser Met Phe Gln Tyr Tyr Asp Ser Leu Pro Ile Trp Ser Phe Ile Met
 20 25 30
 Pro Pro Arg Arg Tyr Asn Pro Asp His Arg Arg Asp Ala Leu Glu
 35 40 45
 Arg Ile Asn Ser Asp Ile Pro Ala Ser Val Ala His Ala Leu Arg Glu
 50 55 60
 Asp Leu Gly Gly Asp Val Ser Ala Asp Asn Asp Ile Thr Ala Gln Leu
 65 70 75 80
 Leu Pro Lys Glu Thr Arg Ser His Ala Val Val Ile Thr Arg Glu Ala
 85 90 95
 Gly Val Phe Cys Gly Lys Arg Trp Val Glu Glu Val Phe Thr Gln Leu
 100 105 110
 Ala Gly Asp Glu Val Gln Val Trp His Val Glu Asp Gly Asp Ala
 115 120 125
 Val Thr Ala Asn Gln Pro Leu Phe Glu Leu Asp Gly Pro Ser Arg Val
 130 135 140
 Leu Leu Thr Gly Glu Arg Thr Ala Leu Asn Phe Val Gln Thr Leu Ser
 145 150 155 160
 Gly Val Ala Ser Glu Val Arg Arg Tyr Val Asp Leu Leu Ala Gly Thr
 165 170 175
 Arg Thr Gln Leu Leu Asp Thr Arg Lys Thr Leu Pro Gly Leu Arg Thr
 180 185 190
 Ala Leu Lys Tyr Ala Val Leu Cys Gly Gly Ala Asn His Arg Leu
 195 200 205
 Gly Leu Ser Asp Ala Phe Leu Ile Lys Glu Asn His Ile Ile Ala Ser
 210 215 220
 Gly Ser Val Arg Gln Ala Val Glu Lys Ala Phe Trp Leu His Pro Asp
 225 230 235 240
 Val Pro Val Glu Val Glu Val Glu Thr Leu Glu Glu Leu Asp Glu Ala
 245 250 255
 Ile Lys Ala Gly Ala Asp Ile Ile Met Leu Asp Asn Phe Asp Thr Glu
 260 265 270
 Gln Met Arg Glu Ala Val Lys Arg Thr Asn Gly Gln Ala Gln Leu Glu
 275 280 285
 Val Ser Gly Asn Val Thr Phe Asp Thr Ile Arg Glu Phe Ala Glu Thr
 290 295 300
 Gly Val Asp Tyr Ile Ser Val Gly Ala Leu Thr Lys His Val Arg Ala
 305 310 315 320
 Leu Asp Leu Ser Met Arg Phe Lys
 325

<210> 9610

<211> 408

<212> PRT

<213> Enterobacter cloacae

<400> 9610

Leu Arg Ser Lys Ser Cys Cys Ala Ser Trp Glu Cys Gln Met Ala Ala
 1 5 10 15
 Asn Ser Leu Trp Arg Trp Arg Ala Leu Thr Thr Glu Gly Glu Val Gln
 20 25 30
 Thr Gly Thr Leu Trp Ala Ile Asp Arg Asn Ala Ala Tyr Thr Ala Leu
 35 40 45
 Val Leu Lys Gln Leu His Pro Leu Ala Leu Lys Arg Cys Gln Gln His
 50 55 60
 His Arg Trp Gln Val Gln His Cys Tyr Asp Ile Phe Arg Gln Leu Ala
 65 70 75 80

Thr Leu Leu Gln Ala Gly Leu Met Leu Ser Gln Ser Leu His Met Leu
 85 90
 Ala Glu Gln His Pro Leu Gln His Trp Gln Ala Leu Leu His Ser Leu
 100 105
 Ala Asp Asp Leu Ser Glu Gly Phe Ala Leu Ser Glu Ala Met Lys Lys
 115 120 125
 Trp Pro Glu Val Phe Ser Pro Leu Tyr Val Ser Met Val Lys Thr Gly
 130 135 140
 Glu Leu Thr Gly Lys Leu Glu Ala Cys Cys Arg Gln Leu Ala Gln Gln
 145 150 155 160
 Gln Lys Ser Gln Gln Gln Leu Ser Ala Lys Val Lys Lys Ala Leu Arg
 165 170 175
 Tyr Pro Leu Ile Ile Leu Thr Leu Ala Val Phe Val Val Leu Ala Met
 180 185 190
 Val Thr Leu Val Leu Pro Glu Phe Ala Ala Ile Tyr Lys Thr Phe Asn
 195 200 205
 Thr Pro Leu Pro Leu Leu Thr Gln Ala Val Met Gly Leu Ala Ala Leu
 210 215 220
 Val Gln Ala His Ile Leu Thr Leu Leu Ala Leu Leu Val Ala Met Val
 225 230 235 240
 Val Ile Ala Cys Lys Leu Arg Arg His Pro Arg Trp Gln Tyr Val Leu
 245 250 255
 Leu His Val Pro Val Met Gly Thr Leu Met Arg Gly Gln Lys Leu Gly
 260 265 270
 Gln Ile Phe Thr Val Leu Ser Leu Thr Gln Gln Ala Gly Ile Ala Phe
 275 280 285
 Leu Gln Gly Leu Glu Ser Val Glu Glu Thr Val Glu Cys Gly Tyr Trp
 290 295 300
 Gln Glu Lys Leu Arg Glu Ile Arg Ser Asp Ile Glu Gln Gly Met Pro
 305 310 315 320
 Val Trp Ser Ser Phe Gln Lys Ala Ser Val Phe Thr Pro Leu Cys Ile
 325 330 335
 Gln Leu Ile Arg Thr Gly Glu Val Ser Gly Ser Leu Asp Val Met Leu
 340 345 350
 Met Asn Leu Ala Arg His His Thr Glu Gln Thr Phe Gln Gln Ala Asp
 355 360 365
 Asn Leu Ala Ala Leu Leu Glu Pro Leu Leu Leu Val Val Thr Gly Leu
 370 375 380
 Ile Ile Gly Thr Leu Val Val Ala Met Tyr Leu Pro Ile Phe His Leu
 385 390 395 400
 Gly Asp Ala Met Ser Ala Gly
 405

<210> 9611

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 9611

Phe Pro Gly Ser Asp Leu Met Gly Tyr Ile Val Ala Leu Thr Gly Gly
 1 5 10 15
 Ile Gly Ser Gly Lys Ser Thr Val Ala His Ala Phe Ala Arg Leu Gly
 20 25 30
 Ile Thr Ile Ile Asp Ala Asp Ile Ile Ala Arg His Val Val Glu Pro
 35 40 45
 Asn Thr Pro Ala Leu Asn Ala Ile Glu Ala His Phe Gly Arg Arg Val
 50 55 60
 Ile Gln Ala Asp Gly Thr Leu Asn Arg Arg Gln Leu Arg Glu Tyr Ile
 65 70 75 80
 Phe Ser Asp Pro Ala Glu Lys Ala Trp Leu Asn Ala Leu Leu His Pro
 85 90 95

```

Ile Ile His Gln Glu Thr Gln Arg Gln Ile Ala Ala Ala Arg Ser Pro
      100      105      110
Tyr Val Leu Trp Val Val Pro Leu Leu Val Glu Asn Gln Leu Gln Asn
      115      120      125
Lys Ala Asp Arg Thr Leu Val Ile Asp Val Ser Arg Glu Thr Gln Ile
      130      135      140
Gln Arg Thr Met Ala Arg Asp His Val Ser Arg Glu His Ala Glu Gln
      145      150      155      160
Ile Leu Ala Ala Gln Ala Thr Arg Glu Ala Arg Leu Ala Val Ala Asp
      165      170      175
Asp Val Ile Asp Asn Asn Gly Ala Pro Asp Ala Ile Ala Ser Asp Val
      180      185      190
Ala Arg Leu His Ala Gln Tyr Leu Thr Phe Ala Ala Gln Ala Val Ala
      195      200      205
Gln Glu Lys Pro
      210

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<210> 9612

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 9612

```

His Gln Ala Pro Ser Gly Arg Ala Gly Ser Val Arg Arg Ser Ser Ala
1      5      10      15
Ala Thr Ala Thr Val Gln Ala Ser Arg Ala Ala Ser His His Pro Pro
      20      25      30
Leu Ala Thr Pro Val Pro Ala Ala Thr Ser Arg Arg Ser Ala Asp Val
      35      40      45
Tyr Asp Ile Val Gln Pro Pro Ala Ser Ser Ser Val Arg Ser Ala Leu
      50      55      60
Phe Pro Glu Cys His Ser Ala Ser Pro Gly Val Thr Leu Pro Pro Thr
      65      70      75      80
Ala Ser Pro Ala Val Ser Ser Arg Ala Ser Val Cys Gln Ser Gly Tyr
      85      90      95
Asp Gly Thr Pro Ser Ala Cys Pro Gly Tyr His Pro Ile Pro Arg Cys
      100      105      110
Gln Ile Ala Glu Ala Ala Ala Gly Arg His Ala Ser Gly Gly Gln Tyr
      115      120      125
Pro Arg Gln Pro Pro Val Lys Tyr Ala Arg Pro Gly Ser Gly Cys Pro
      130      135      140
Gly Val Arg Ala Ala Arg Ser Ala Ile His Asp Ala Ser Gly Arg His
      145      150      155      160
Arg Cys Pro Ala Ser Arg Pro Ser His Leu Pro Ala Asp Ser Asp His
      165      170      175
Pro Ala Arg Asp Gly Ala Arg Phe Cys Pro Gly Arg Pro Gly Pro Ala
      180      185      190
Glu Gly
      195

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<210> 9613

<211> 238

<212> PRT

<213> Enterobacter cloacae

<400> 9613

```

Gly Ile Leu Met Lys Phe Ser Pro Ala Leu Gln Pro Ala Thr Leu Ile
1      5      10      15
Gln Arg Tyr Lys Arg Phe Leu Ala Asp Val Ile Thr Pro Ala Gly Glu
      20      25      30
Thr Leu Thr Leu His Cys Pro Asn Thr Gly Ala Met Thr Gly Cys Ala

```

[illegible]

<400> 9615

Asn Ala Gln Arg Phe Ala Phe Gly Pro Ser Gly Asn Ser Met Lys Pro
 1 5 10 15
 Thr Thr Ile Ser Leu Leu Gln Lys Cys Lys Gln Glu Lys Lys Arg Phe
 20 25 30
 Ala Thr Ile Thr Ala Tyr Asp Tyr Ser Phe Ala Lys Leu Phe Ala Glu
 35 40 45
 Glu Gly Ile Asn Val Met Leu Val Gly Asp Ser Leu Gly Met Thr Val
 50 55 60
 Gln Gly His Asp Ser Thr Leu Pro Val Thr Val Glu Asp Ile Ala Tyr
 65 70 75 80
 His Thr Arg Ala Val Arg Arg Gly Ala Pro Ala Cys Leu Leu Leu Ser
 85 90 95
 Asp Leu Pro Phe Met Ala Tyr Ala Thr Pro Glu Gln Ala Phe Glu Asn
 100 105 110
 Ala Ala Thr Val Met Arg Ala Gly Ala Asn Met Val Lys Ile Glu Gly
 115 120 125
 Gly Ala Trp Leu Val Asp Thr Val Lys Met Leu Thr Glu Arg Ala Val
 130 135 140
 Pro Val Cys Gly His Leu Gly Leu Thr Pro Gln Ser Val Asn Ile Phe
 145 150 155 160
 Gly Gly Tyr Lys Val Gln Gly Arg Gly Asp Ala Ala Gln Thr Leu Phe
 165 170 175
 Asp Asp Ala Val Ala Leu Glu Ala Ala Gly Ala Gln Leu Leu Val Leu
 180 185 190
 Glu Cys Val Pro Val Glu Leu Ala Lys Arg Ile Thr Glu Ala Leu Ser
 195 200 205
 Ile Pro Val Ile Gly Ile Gly Ala Gly Asn Val Thr Asp Gly Gln Ile
 210 215 220
 Leu Val Met His Asp Ala Phe Gly Ile Thr Gly Gly His Ile Pro Lys
 225 230 235 240
 Phe Ala Lys Asn Phe Leu Thr Glu Ala Gly Asp Met Arg Ala Ala Val
 245 250 255
 Arg Gln Tyr Ile Ala Glu Val Glu Ser Gly Val Tyr Pro Gly Glu Glu
 260 265 270
 His Ser Phe His
 275

<210> 9616

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 9616

Lys Val Asn Val Met Ile Arg Lys Met Leu Gln Gly Lys Leu His Arg
 1 5 10 15
 Val Lys Val Thr Gln Ala Asp Leu His Tyr Glu Gly Ser Cys Ala Ile
 20 25 30
 Asp Gln Asp Phe Leu Asp Ala Ala Gly Ile Leu Glu Asn Glu Ala Ile
 35 40 45
 Asp Ile Trp Asn Val Asn Asn Gly Lys Arg Phe Ser Thr Tyr Ala Ile
 50 55 60
 Ala Ala Glu Arg Gly Ser Lys Ile Ile Ser Val Asn Gly Ala Ala Ala
 65 70 75 80
 His Cys Ala Asp Val Gly Asp Ile Val Ile Ile Ala Ser Phe Val Met
 85 90 95
 Met Ser Asp Glu Glu Ala Arg Arg Trp Gln Pro Lys Val Ala Tyr Phe
 100 105 110
 Glu Gly Asp Asn Glu Met Lys Arg Thr Ala Lys Ala Ile Pro Val Gln
 115 120 125
 Val Ala
 130

<210> 9617
 <211> 280
 <212> PRT
 <213> Enterobacter cloacae

<400> 9617

```

Ser Thr Ser Asn Phe Lys Ser Ile Asp Lys Met Leu Ile Leu Ser Pro
1      5      10      15
Asp Val Arg Gln Gly Thr Ile Asp Ile Pro Thr Gly Ser Gly Lys
      20      25      30
Met Leu Asn Thr Ser Phe Tyr Lys Gly Phe Lys Ala Ala Cys Phe Thr
      35      40      45
Val Ala Ala Val Ala Ser Phe Gln Ala Ser Ala Asp Ile Val Ile Ser
      50      55      60
Gly Thr Arg Ile Val Tyr Gln Gln Ser Gln Lys Asp Val Ile Val Ser
65      70      75      80
Leu Asp Asn Arg Gly Lys Lys Pro Leu Leu Val Gln Ser Trp Leu Asp
      85      90      95
Asp Gly Arg Asp Asp Thr Asn Pro Gln Glu Leu Lys Leu Pro Phe Ile
      100     105     110
Ile Thr Pro Val Ser Arg Ile Asp Pro Gln Lys Gly Gln Ser Val
      115     120     125
Arg Ile Ser Tyr Leu Gly Gly Ser Leu Pro Gln Asp Arg Glu Ser Leu
130     135     140
Phe Trp Phe Asn Val Leu Glu Ile Pro Pro Lys Ser Lys Val Lys Asp
145     150     155     160
Gly Glu Asn Pro Asn Gln Leu Gln Leu Ala Phe Arg Thr Arg Ile Lys
      165     170     175
Leu Phe Phe Arg Pro Asp Gly Leu Lys Gly Thr Pro Gly Asn Ala Ala
      180     185     190
Ala Arg Val Thr Trp Ser Gln Gln Lys Gln Gly Asn Thr Leu Asn Leu
195     200     205
Ile Ala His Asn Asp Ser Pro Tyr Asn Val Ser Ile Ser Asn Val Lys
210     215     220
Leu Lys Ser Ala Asn Lys Glu Tyr Gln Val Glu His Lys Ser Ile Leu
225     230     235     240
Pro Phe Ser Thr Gln Ile Met Gln Val Lys Gly Leu Gly Ser Thr Ala
      245     250     255
Thr Gly Thr Val Ala Tyr Glu Thr Ile Asn Asp Asn Gly Gly Ser Asp
      260     265     270
Thr Phe Glu Ser Lys Val Asn
      275     280

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<210> 9618
 <211> 866
 <212> PRT
 <213> Enterobacter cloacae

<400> 9618

```

Ser Met Leu Phe Gln Arg Ser Ile Leu Cys Leu Ala Ile Cys Ala Ala
1      5      10      15
Phe Pro Leu His Ala Ser Glu Thr Glu Lys Lys Ala Val Asp Thr Ser
      20      25      30
Ser Glu Thr Glu Ser Ala Ile Glu Phe Asn Asp Gln Phe Leu Ile Asp
      35      40      45
Asn Gly Gly Gly Ile Asn Val Asp Arg Tyr Ala Tyr Gly Asn Pro Val
      50      55      60
Leu Pro Gly Thr Tyr Arg Val Lys Val Asn Leu Asn Gly Asn Ser Lys
65      70      75      80
Ser Thr Val Glu Met Ala Phe Ile Asp Asn Lys Thr Pro Arg Ala Ser

```

[illegible]

Val Tyr Leu Asn Val Ser Ile Pro Phe Ser Ile Phe Asn Lys Asp Asn
 580 585 590
 Ala Gln Ser Gly Gly Phe Asn Asn Val Asn Met Ser Leu Arg Thr Asp
 595 600 605
 Leu Lys Gly Gly Thr Ser Phe Asn Ser Thr Ala Ser Gly Asn Ser Lys
 610 615 620
 Asn Ser Glu Val Ser Tyr Ser Val Ser Ala Ser Ser Gly Gly Asn
 625 630 635 640
 Tyr Gly Asn Leu Asn Gln Val Ser Gly Tyr Ser Ser Trp Asn Ser Pro
 645 650 655
 Tyr Gly Pro Leu Gly Val Ser Ala Ser Phe Gly Asp Asp Asn Ser Lys
 660 665 670
 Gln Tyr Ser Ala Ser Tyr Asn Gly Gly Met Val Val His Ser Gly Gly
 675 680 685
 Val Val Phe Thr Ser Gly Ser Ile Gly Glu Thr Asp Ser Leu Ala Leu
 690 695 700
 Val Lys Ala Ser Gly Ala Thr Gly Ala Arg Leu Gly Tyr Gly Gln Ser
 705 710 715 720
 Arg Ile Asn Ser Ser Gly Tyr Gly Ile Met Pro Tyr Met Ser Ala Tyr
 725 730 735
 Arg Glu Asn Arg Val Ser Leu Asp Ile Ser Thr Leu Glu Ala Asp Val
 740 745 750
 Glu Ile Lys Asn Thr Ser Ala Val Ala Val Pro Arg Asn Gly Ser Val
 755 760 765
 Val Phe Val Asn Phe Glu Thr Asp Glu Gly Arg Ser Leu Val Leu Glu
 770 775 780
 Leu Gln Arg Ser Asp Asn Gly Phe Ile Pro Leu Gly Ala Asp Val Leu
 785 790 795 800
 Asn Glu Lys Asn Glu Ser Ile Gly Thr Val Gly Gln Ala Gly Gln Ala
 805 810 815
 Tyr Val Arg Gly Val Glu Asn Lys Gly Ala Leu Arg Val Val Trp Gly
 820 825 830
 Ser Asp Gly Ser Ser Ser Cys Thr Val His Tyr Gln Ile Pro Glu Asn
 835 840 845
 Ala Lys Lys Ala Gly Leu Thr Thr Ile Leu Ser Asn Gln Gln Cys Gln
 850 855 860
 Met
 865

<210> 9619

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 9619

Cys Ala Ser His Val Tyr Tyr His Leu Ser Ile Ile Pro Gly Thr Ser
 1 5 10 15
 Met Gln Gln Ser Pro Phe Thr Leu Tyr Gln Pro Gly Leu Val Leu Leu
 20 25 30
 Met Gly Leu Ala Gly Gly Ile Leu Pro Gly Val Gly Gln Ala Ser Ser
 35 40 45
 Gly Leu Asp Val Asn Ile Thr Ala Asn Ile Val Asn Ser Thr Cys Lys
 50 55 60
 Met Thr Val Glu Asn Asp Gly Glu Ile Tyr Leu Pro Asn Val Met Arg
 65 70 75 80
 Ser Trp Phe Tyr Asn Pro Asp Gly Ser Asp Arg Phe Thr Ala Thr Asp
 85 90 95
 Asp Ala Gly Gly Thr Pro Phe Lys Ile His Val Asp Asp Cys Tyr Gly
 100 105 110
 Asp Ser Ser Thr Ala Lys Lys Leu Ser Phe Ser Phe Ser Pro Gln Ser
 115 120 125

Gly Phe Trp Pro Gly Gln Asn Gln Val Phe Lys Ser Asp Asp Thr Ala
 130 135 140
 Ala Gly Ala Ala Lys Asn Val Gly Val Val Val Phe Ser Glu Arg Tyr
 145 150 155 160
 Lys Lys Asn Val Leu Asn Asn Asp Gly Thr Ser Lys Ile Thr Tyr Asp
 165 170 175
 Val Ser Gly Gln Asp Thr Ala Phe Leu Thr Asp Tyr Gln Phe Tyr Ala
 180 185 190
 Arg Tyr Gln Asn Ile Gly Val Val Ala Gly Gly Val Val Thr Ser Lys
 195 200 205
 Val Leu Val Asp Val Thr Tyr Glu
 210 215

<210> 9620

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 9620

Trp Met Leu Thr Lys Glu Val Leu Pro Met Thr Glu Lys Thr Val Trp
 1 5 10 15
 Gln Glu Thr Leu His Asp Gln Phe Gly Gln Tyr Phe Ala Val Asp Asn
 20 25 30
 Val Leu Tyr His Glu Lys Thr Asp His Gln Asp Leu Ile Ile Phe Glu
 35 40 45
 Asn Ala Ala Phe Gly Arg Val Met Ala Leu Asp Gly Val Val Gln Thr
 50 55 60
 Thr Glu Arg Asp Glu Phe Ile Tyr His Glu Met Met Thr His Val Pro
 65 70 75 80
 Leu Leu Ala His Gly His Ala Lys Asp Val Leu Ile Ile Gly Gly Gly
 85 90 95
 Asp Gly Ala Met Leu Arg Glu Val Ser Arg His Gln Asn Val Glu Thr
 100 105 110
 Ile Ser Met Val Glu Ile Asp Ala Gly Val Val Ser Phe Cys Arg Gln
 115 120 125
 Tyr Leu Pro Asn His Asn Ala Gly Ser Tyr Asp Asp Pro Arg Phe Asn
 130 135 140
 Leu Val Ile Asp Asp Gly Val Asn Phe Val Asn Gln Thr Thr Gln Thr
 145 150 155 160
 Phe Asp Val Ile Ile Ser Asp Cys Thr Asp Pro Ile Gly Pro Gly Ala
 165 170 175
 Ser Leu Phe Thr Ser Ser Phe Tyr Glu Gly Cys Lys Arg Cys Leu Lys
 180 185 190
 Pro Gly Gly Ile Phe Val Ala Gln Asn Gly Val Cys Phe Leu Gln Gln
 195 200 205
 Asp Glu Ala Leu Asp Ser His Arg Lys Leu Ser Thr Tyr Phe Ala Asp
 210 215 220
 Val Ser Phe Tyr Gln Ala Ala Ile Pro Thr Tyr Tyr Gly Gly Ile Met
 225 230 235 240
 Thr Phe Ala Trp Ala Thr Asp Asn Asp Val Leu Arg His Leu Ser Thr
 245 250 255
 Glu Ile Ile Gln Ala Arg Phe His Gln Ala Gly Leu Gln Cys Arg Tyr
 260 265 270
 Tyr Asn Pro Ala Ile His Thr Ala Ala Phe Ala Leu Pro Gln Tyr Leu
 275 280 285
 Gln Asp Ala Leu Ser Ser Lys Glu Val Asn
 290 295

<210> 9621

<211> 265

<212> PRT

<213> *Enterobacter cloacae*

<400> 9621

```

Leu Lys Lys Leu Lys Leu His Gly Phe Asn Asn Leu Thr Lys Ser Leu
1      5      10      15
Ser Phe Cys Ile Tyr Asp Ile Cys Tyr Ala Lys Thr Ala Glu Arg
      20      25      30
Asp Gly Tyr Ile Ala Tyr Ile Asp Glu Leu Tyr Asn Ala Asn Arg Leu
      35      40      45
Thr Glu Ile Leu Thr Glu Thr Cys Ser Ile Ile Gly Ala Asn Ile Leu
      50      55      60
Asn Ile Ala Arg Gln Asp Tyr Glu Pro Gln Gly Ala Ser Val Thr Ile
      65      70      75      80
Leu Val Ser Glu Glu Pro Val Asp Pro Gln Leu Ile Asp Lys Thr Glu
      85      90      95
His Pro Gly Pro Leu Pro Glu Val Val Val Ala His Leu Asp Lys Ser
      100      105      110
His Ile Cys Val His Thr Tyr Pro Glu Ser His Pro Glu Gly Gly Leu
      115      120      125
Cys Thr Phe Arg Ala Asp Ile Glu Val Ser Thr Cys Gly Val Ile Ser
      130      135      140
Pro Leu Asn Ala Leu Asn Tyr Leu Ile His Gln Leu Glu Ser Asp Ile
      145      150      155      160
Val Thr Ile Asp Tyr Arg Val Arg Gly Phe Thr Arg Asp Ile Asn Gly
      165      170      175
Met Lys His Phe Ile Asp His Glu Ile Asn Ser Ile Gln Asn Phe Met
      180      185      190
Ser Glu Asp Met Lys Ser Leu Tyr Asp Met Met Asp Val Asn Val Tyr
      195      200      205
Gln Glu Asn Ile Phe His Thr Lys Met Leu Leu Lys Glu Phe Asp Leu
      210      215      220
Lys His Tyr Met Phe His Thr Lys Pro Glu Asp Leu Ser Glu Glu Glu
      225      230      235      240
Arg Lys Val Ile Thr Asp Leu Leu Trp Lys Glu Met Arg Glu Ile Tyr
      245      250      255
Tyr Gly Arg Asn Ile Pro Thr Val
      260      265

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<210> 9622

<211> 464

<212> FRT

<213> *Enterobacter cloacae*

<400> 9622

```

Gln Pro His Thr Arg Phe Gln Met Glu Ala Gln Gln His Gly Asp Gln
1      5      10      15
Leu Lys Arg Gly Leu Lys Asn Arg His Ile Gln Leu Ile Ala Leu Gly
      20      25      30
Gly Ala Ile Gly Thr Gly Leu Phe Leu Gly Ser Ala Ser Val Ile Gln
      35      40      45
Ser Ala Gly Pro Gly Ile Ile Leu Gly Tyr Ala Ile Ala Gly Phe Ile
      50      55      60
Ala Phe Leu Ile Met Arg Gln Leu Gly Glu Met Val Val Glu Glu Pro
      65      70      75      80
Val Ala Gly Ser Phe Ser His Phe Ala Tyr Lys Tyr Trp Gly Ser Phe
      85      90      95
Ala Gly Phe Ala Ser Gly Trp Asn Tyr Trp Val Leu Tyr Val Leu Val
      100      105      110
Ala Met Ala Glu Leu Thr Ala Val Gly Lys Tyr Ile Gln Phe Trp Tyr
      115      120      125
Pro Glu Ile Pro Thr Trp Ala Ser Ala Ala Ala Phe Phe Val Leu Ile

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130          135          140
Asn Ala Ile Asn Leu Thr Asn Val Lys Val Phe Gly Glu Met Glu Phe
145          150          155          160
Trp Phe Ala Ile Ile Lys Val Ile Ala Val Val Ala Met Ile Ile Phe
          165          170          175
Gly Gly Trp Leu Leu Phe Ser Gly Asn Gly Gly Pro Gln Ala Thr Val
          180          185          190
Arg Asn Leu Trp Glu Gln Gly Gly Phe Leu Pro His Gly Met Thr Gly
          195          200          205
Leu Val Met Met Met Ala Ile Ile Met Phe Ser Phe Gly Gly Leu Glu
          210          215          220
Leu Val Gly Ile Thr Ala Ala Glu Ala Asp Asn Pro Glu Gln Ser Ile
225          230          235          240
Pro Lys Ala Thr Asn Gln Val Ile Tyr Arg Ile Leu Ile Phe Tyr Val
          245          250          255
Gly Ser Leu Ala Val Leu Leu Ser Leu Leu Pro Trp Thr Arg Val Thr
          260          265          270
Ala Asp Thr Ser Pro Phe Val Leu Ile Phe His Glu Leu Gly Asp Thr
          275          280          285
Phe Val Ala Asn Ala Leu Asn Val Val Val Leu Thr Ala Ala Leu Ser
          290          295          300
Val Tyr Asn Ser Cys Val Tyr Cys Asn Ser Arg Met Leu Phe Gly Leu
305          310          315          320
Ala Gln Gln Gly Asn Ala Pro Lys Ala Leu Leu Thr Val Asp Lys Arg
          325          330          335
Gly Val Pro Val Asn Thr Ile Ile Val Ser Ala Val Val Thr Ala Leu
          340          345          350
Cys Val Leu Ile Asn Tyr Leu Ala Pro Glu Ser Ala Phe Gly Leu Leu
          355          360          365
Met Ala Leu Val Val Ser Ala Leu Val Ile Asn Trp Ala Met Ile Ser
          370          375          380
Leu Ala His Ile Lys Phe Arg Arg Ala Lys Gln Gln Gln Gly Val Thr
385          390          395          400
Thr Arg Phe Pro Ala Leu Leu Tyr Pro Leu Gly Asn Trp Val Cys Leu
          405          410          415
Leu Phe Met Ala Ala Val Leu Val Ile Met Leu Ile Thr Pro Gly Met
          420          425          430
Ala Ile Ser Val Tyr Leu Ile Pro Val Trp Ile Ala Ile Leu Gly Val
          435          440          445
Gly Tyr Met Val Lys Gln Lys Asn Ala Lys Thr Val Lys Ala His
450          455          460

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<210> 9623

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 9623

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Thr Ile Ile Arg Asn Ser Lys Pro Leu Arg Leu Asn Lys Glu Ser Arg
1          5          10          15
Met Gln Thr Trp Pro Asn Pro Phe Ile Glu Gln Arg Ala Asp Pro Tyr
          20          25          30
Ile Leu Arg His Asp Gly Gln Tyr Phe Ile Ala Ser Val Pro Glu
          35          40          45
Tyr Asp Arg Leu Ala Ile Arg Arg Ala Asp Ser Leu Glu Gly Leu Arg
          50          55          60
Asp Ala Glu Glu Val Val Val Trp Arg Lys Pro Asp Thr Gly Pro Met
65          70          75          80
Ser Gln Leu Ile Trp Ala Pro Glu Leu His His Ile Asp Gly Ser Trp
          85          90          95
Tyr Ile Tyr Phe Ala Ala Thr His Thr Gln Ala Leu Asp His Leu Gly

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100 105 110
 Met Phe Gln His Arg Met Phe Ala Ile Glu Cys Ala Asp Arg Asp Pro
 115 120 125
 Leu Thr Gly Thr Trp Val Glu Lys Gly Gln Ile Lys Thr Pro Phe Asp
 130 135 140
 Thr Phe Ala Leu Asp Ala Thr Thr Phe Val His Gln Gly Lys Arg Trp
 145 150 155 160
 Tyr Leu Trp Ala Gln Lys Ala Pro Asp Ile Ser Gly Asn Ser Asn Leu
 165 170 175
 Tyr Leu Cys Glu Met Glu Asn Pro Trp Thr Leu Lys Gly Glu Pro Val
 180 185 190
 Met Leu Ser Lys Pro Glu Tyr Asp Trp Glu Cys Arg Gly Phe Trp Val
 195 200 205
 Asn Glu Gly Pro Ala Val Leu Phe His Gly Asp Lys Leu Phe Ile Ser
 210 215 220
 Tyr Ser Ala Ser Ala Thr Asp Glu Asn Tyr Cys Met Gly Leu Met Trp
 225 230 235 240
 Ala Asp Leu Asn Ala Asp Pro Gln Asn Pro Ala Asn Trp His Lys Ser
 245 250 255
 Pro Arg Pro Val Phe Val Thr Ser Tyr Glu Asn Arg Gln Tyr Gly Pro
 260 265 270
 Gly His Asn Ser Phe Thr Gln Thr Pro Glu Gly Glu Asp Val Leu Val
 275 280 285
 Tyr His Ala Arg Asn Tyr Thr Glu Ile Glu Gly Asp Pro Leu Tyr Asp
 290 295 300
 Pro Asn Arg His Thr Arg Leu Lys Leu Ile Arg Trp Asn Glu Asn Gly
 305 310 315 320
 Met Pro Glu Phe Gly Ile Pro Pro Ala Asp Thr Pro
 325 330

<210> 9624

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 9624

Asn Ser Met Asn Phe Ser Pro Phe Ser Ser Thr Thr Val Pro Pro Leu
 1 5 10 15
 Ser Ser Trp Pro Ala Ser Met Pro Pro Ser Ile Thr Lys Ser Ala Pro
 20 25 30
 Pro Pro Lys Ala Phe Ala Thr Ser Pro Gly Met Val Gln Pro Pro Ser
 35 40 45
 Leu Met Ile Trp Pro Pro Arg Pro Cys Ala Ala Ser Ala His Ser Ile
 50 55 60
 Thr Ala Asp Ser Cys Gly
 65 70

<210> 9625

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 9625

Gly Gly Ser Leu Ser Arg Leu Val Thr Val Asp Met Ser Glu Ser His
 1 5 10 15
 Tyr Ile Gly Arg Phe Ala Pro Ser Pro Ser Gly Glu Leu His Phe Gly
 20 25 30
 Ser Leu Ile Ala Ala Leu Gly Ser Tyr Leu Gln Ala Arg Ala Arg Gln
 35 40 45
 Gly Gln Trp Leu Val Arg Ile Glu Asp Ile Asp Pro Pro Arg Glu Val
 50 55 60

Pro Gly Ala Ala Glu Thr Ile Leu Arg Gln Leu Glu His Tyr Gly Leu
 65 70 75 80
 His Trp Asp Gly Asp Val Leu Trp Gln Ser Gln Arg His Asp Ala Tyr
 85 90 95
 Arg Glu Arg Leu Ala Trp Leu Ala Glu Gln Gly Leu Ser Tyr Asn Cys
 100 105 110
 Thr Cys Thr Arg Ala Arg Ile Gln Ser Val Gly Gly Val Tyr Asp Gly
 115 120 125
 His Cys Arg Thr Arg His Asn Gly Pro Glu Asn Ala Ala Val Arg Leu
 130 135 140
 Ile Gln Arg Ser Pro Val Thr Gln Phe Thr Asp Val Val Ser Gly Thr
 145 150 155 160
 Ile Gln Ala Asp Glu Arg Leu Ala Arg Glu Asp Phe Ile Ile His Arg
 165 170 175
 Arg Asp Gly Leu Phe Ala Tyr Asn Leu Ala Val Val Val Asp Asp His
 180 185 190
 Phe Gln Gly Val Thr Glu Ile Val Arg Gly Ala Asp Leu Val Glu Pro
 195 200 205
 Thr Val Arg Gln Ile Ser Leu Tyr Gln Gln Phe Gly Trp Thr Val Pro
 210 215 220
 Asp Tyr Ile His Leu Pro Leu Ala Val Asn Asp Gln Gly Asn Lys Leu
 225 230 235 240
 Ser Lys Gln Asn His Ala Pro Ala Leu Pro Asp Gly Asp Pro Arg Pro
 245 250 255
 Val Leu Ile Asp Ala Leu Arg Phe Leu Asn Gln Asn Val Thr Gln Glu
 260 265 270
 Trp Gln Asp Leu Ser Leu Asp Glu Leu Leu Lys Thr Ala Ile Ala Asp
 275 280 285
 Trp Ala Leu Ile Ala Val Pro Lys Ile Gln His Ser Gln Met Arg Cys
 290 295 300
 Ala Glu Leu
 305

<210> 9626

<211> 480

<212> PRT

<213> Enterobacter cloacae

<400> 9626

Leu Ala Ala Phe Leu Ile Thr Lys His Thr Thr Arg Cys Thr Ile Phe
 1 5 10 15
 Thr Arg Val Ala Asn Phe Cys Arg Lys Val Leu Ser Arg Glu Ser
 20 25 30
 Met Ala Asn Asp Ala Ile Ala Gln Pro His Met Ser Val Ile Pro Arg
 35 40 45
 Glu Gln His Asn Ile Ser Arg Lys Asp Ile Ser Glu Asn Ala Leu Lys
 50 55 60
 Val Leu Tyr Arg Leu Asn Lys Ala Gly Tyr Glu Ala Tyr Leu Val Gly
 65 70 75 80
 Gly Gly Val Arg Asp Leu Leu Leu Gly Lys Lys Pro Lys Asp Phe Asp
 85 90 95
 Val Thr Thr Ser Ala Thr Pro Glu Gln Val Arg Lys Leu Phe Arg Asn
 100 105 110
 Cys Arg Leu Val Gly Arg Arg Phe Arg Leu Ala His Val Met Phe Gly
 115 120 125
 Pro Glu Ile Ile Glu Val Ala Thr Phe Arg Gly His His Glu Ala Gly
 130 135 140
 Val Asn Asp Arg Thr Thr Ser Gln Arg Gly Gln Asn Gly Met Leu Leu
 145 150 155 160
 Arg Asp Asn Ile Phe Gly Ser Ile Glu Glu Asp Ala Gln Arg Arg Asp
 165 170 175

Phe Thr Ile Asn Ser Leu Tyr Tyr Ser Val Ala Asp Phe Thr Val Arg
 180 185 190
 Asp Tyr Val Gly Gly Met Gln Asp Leu Lys Asp Gly Leu Ile Arg Leu
 195 200 205
 Ile Gly Thr Pro Glu Thr Arg Tyr Arg Glu Asp Pro Val Arg Met Leu
 210 215 220
 Arg Ala Val Arg Phe Ala Ala Lys Leu Asn Met Arg Ile Ser Pro Glu
 225 230 235
 Thr Ala Glu Pro Ile Pro Arg Leu Ala Thr Leu Ile Asn Asp Val Pro
 245 250 255
 Pro Ala Arg Leu Phe Glu Glu Ser Leu Lys Leu Leu Gln Ala Gly Tyr
 260 265 270
 Gly Phe Glu Thr Tyr Asn Leu Leu Arg Glu Tyr Asn Leu Phe Gln Pro
 275 280 285
 Leu Phe Pro Thr Ile Thr Arg Tyr Phe Thr Glu Asn Gly Asp Ser Ala
 290 295 300
 Met Glu Arg Met Ile Ala Gln Val Leu Lys Asn Thr Asp Thr Arg Ile
 305 310 315
 His Asn Asp Met Arg Val Asn Pro Ala Phe Leu Phe Ala Ala Met Phe
 325 330 335
 Trp Tyr Pro Leu Leu Glu Thr Ala Gln Arg Ile Thr Gln Glu Ser Gly
 340 345 350
 Leu Ala Tyr Tyr Asp Ala Phe Ala Leu Ala Ala Asn Asp Val Leu Asp
 355 360 365
 Glu Gly Cys Arg Thr Leu Ala Ile Pro Lys Arg Ile Thr Thr Leu Val
 370 375 380
 Arg Asp Ile Trp Gln Leu Gln Leu Arg Met Ser Arg Arg Gln Gly Lys
 385 390 395
 Arg Ala Trp Lys Leu Met Glu His Pro Lys Phe Arg Ala Ala Phe Asp
 405 410 415
 Leu Leu Ser Leu Arg Ala Glu Val Glu Arg Asn Gln Glu Leu Gln Arg
 420 425 430
 Leu Ala Gln Trp Trp Gly Glu Phe Gln Val Ser Ala Pro Pro Glu Gln
 435 440 445
 Lys Asp Met Leu Thr Asp Leu Asp Asp Glu Pro Ala Pro Arg Arg Arg
 450 455 460
 His Arg Arg Pro Arg Lys Arg Ala Pro Arg Arg Glu Gly Thr Ala
 465 470 475 480

<210> 9627

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 9627

Ile Tyr Leu Arg Val Ile Ser Ala Gly Lys Arg Ser Asn Ile Met Lys
 1 5 10 15
 Phe Asn Ser Thr Phe Ile Ala Leu Ser Val Ser Ala Leu Leu Phe Ser
 20 25 30
 Gly Met Ala Ser Ala Ala Ile Thr Gly Thr Pro Ser Val Glu Leu Thr
 35 40 45
 Ile Lys Ser Lys Ile Val Ser Gly Thr Cys Thr Ala Lys Val Leu Asn
 50 55 60
 Asp Ala Gly Thr Ala Ser Thr Glu Ile Ala Phe Gly Asp Val Tyr Lys
 65 70 75 80
 Ser Asp Leu Val Asn Lys Thr Arg Val Glu Pro Leu Lys Ile Ser Phe
 85 90 95
 Thr Asn Cys Ser Gly Val Thr Arg Ala Thr Val Ser Ala Ala Lys Gly
 100 105 110
 Ala Gly Gly Glu Cys Ser Gly Val Asn Lys Thr Gly Asp Ser Tyr Ser
 115 120 125

Gly Gly Leu Ala Thr Gly Phe Glu Ile Trp Ser Gly Val Val Asp Thr
 130 135 140
 Gly Glu Leu Met Ser Cys Asn Thr Pro Pro Ala Ala Lys Asp Val Thr
 145 150 155
 Ile Thr Asp Gly Thr Gly Glu Phe Pro Met Asn Ser Arg Ile Val Ile
 165 170 175
 Gly Gln Gly Gln Thr Ile Ala Glu Val Gly Ala Val Asn Ala
 180 185 190
 Pro Val Thr Phe Thr Ile Thr Tyr Pro
 195 200

<210> 9628

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 9628

Ile Gln Leu Thr Leu Ser Ser Asp Thr Arg Cys Val Val Ser Leu Lys
 1 5 10 15
 Val Gly Leu Pro Tyr Ser Ser Ala Thr Gln Ser Leu Gly Tyr Arg Ser
 20 25 30
 Leu Thr Ser Met Asn Asp Ile Asp Thr Leu Ile Ser Asn Asn Ala Leu
 35 40 45
 Trp Ser Lys Met Leu Val Glu Glu Asp Pro Gly Phe Gly Lys Leu
 50 55 60
 Ala Gln Ala Gln Asn Pro Arg Phe Leu Trp Ile Gly Cys Ser Asp Ser
 65 70 75 80
 Arg Val Pro Ala Glu Arg Leu Thr Gly Leu Glu Pro Gly Glu Leu Phe
 85 90 95
 Val His Arg Asn Val Ala Asn Leu Val Ile His Thr Asp Leu Asn Cys
 100 105 110
 Leu Ser Val Val Gln Tyr Ala Val Asp Val Leu Glu Val Glu His Ile
 115 120 125
 Ile Ile Cys Gly His Tyr Gly Cys Gly Gly Val Gln Ala Ala Val Glu
 130 135 140
 Asn Thr Glu Leu Gly Leu Ile Asp Asn Trp Leu Leu His Ile Arg Asp
 145 150 155 160
 Ile Trp Phe Lys His Ser Ser Leu Leu Gly Glu Met Pro Gln Glu Arg
 165 170 175
 Arg Leu Asp Thr Leu Cys Glu Leu Asn Val Met Glu Gln Val Tyr Asn
 180 185 190
 Leu Gly His Ser Thr Ile Met Gln Ser Ala Trp Lys Arg Gly Gln Lys
 195 200 205
 Val Ser Ile His Gly Trp Ala Tyr Gly Ile His Asp Gly Leu Leu Arg
 210 215 220
 Asn Leu Glu Val Thr Ala Thr Asn Arg Glu Thr Leu Glu Gln Arg Tyr
 225 230 235 240
 Arg Ser Gly Ile Ala Asn Leu Lys Leu Lys His Val Asn His Lys
 245 250 255

<210> 9629

<211> 808

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (535)

<400> 9629

Gln Ile Ile Asn Lys Thr Asp Glu Tyr Phe Ser Met Ala Glu Thr Lys

1	5	10	15
Thr Lys Gln Pro Arg Leu Leu Val Thr Leu Thr Ala Ala Phe Ala Ala			
	20	25	30
Phe Cys Ala Leu Tyr Leu Leu Ile Gly Gly Val Trp Leu Val Ala Ile			
	35	40	45
Gly Gly Ser Trp Tyr Tyr Pro Ile Ala Gly Leu Val Met Val Gly Val			
	50	55	60
Thr Val Leu Leu Leu Arg Arg Lys Gln Ser Ala Leu Trp Leu Tyr Ala			
	65	70	75
Ala Leu Leu Leu Ala Thr Met Ile Trp Gly Val Trp Glu Val Gly Phe			
	85	90	95
Asp Phe Trp Ala Leu Thr Pro Arg Ser Asp Ile Leu Val Phe Phe Gly			
	100	105	110
Ile Trp Leu Ile Leu Pro Phe Val Trp Arg Arg Leu Ile Val Pro Ser			
	115	120	125
Ser Gly Ala Val Ala Gly Leu Val Val Ala Leu Leu Ile Ser Gly Gly			
	130	135	140
Ile Leu Thr Trp Ala Gly Phe Asn Asp Pro Gln Glu Ile Asn Gly Thr			
	145	150	155
Leu Asn Ala Glu Ser Thr Pro Ala Ala Ala Ile Ser Gln Val Ala Asp			
	165	170	175
Gly Asp Trp Pro Ala Tyr Gly Arg Asn Gln Glu Gly Gln Arg Tyr Ser			
	180	185	190
Pro Leu Lys Gln Ile Asn Ala Asp Asn Val Lys Asn Leu Lys Glu Ala			
	195	200	205
Trp Val Phe Arg Thr Gly Asp Leu Lys Met Pro Asn Asp Pro Gly Glu			
	210	215	220
Leu Thr Asn Glu Val Thr Pro Ile Lys Val Gly Asn Met Leu Tyr Leu			
	225	230	235
Cys Thr Ala His Gln Arg Leu Phe Ala Leu Asp Ala Ala Thr Gly Lys			
	245	250	255
Glu Lys Trp His Phe Asp Pro Gln Leu Asn Ser Asn Pro Ser Phe Gln			
	260	265	270
His Ile Thr Cys Arg Gly Val Ser Tyr His Glu Ala Arg Ala Asp Asn			
	275	280	285
Ala Ser Pro Glu Val Ile Ala Asp Cys Pro Arg Arg Ile Met Leu Pro			
	290	295	300
Val Asn Asp Gly Arg Leu Phe Ala Ile Asn Ala Glu Thr Gly Lys Leu			
	305	310	315
Cys Glu Thr Phe Ala Asn Lys Gly Ile Leu Asn Leu Gln Thr Asn Met			
	325	330	335
Pro Asp Thr Thr Pro Gly Leu Tyr Glu Pro Thr Ser Pro Pro Ile Ile			
	340	345	350
Thr Asp Lys Thr Ile Val Ile Ala Gly Ser Val Thr Asp Asn Phe Ser			
	355	360	365
Thr Arg Glu Thr Ser Gly Val Ile Arg Gly Phe Asp Val Asn Thr Gly			
	370	375	380
Lys Leu Leu Trp Ala Phe Asp Pro Gly Ala Lys Asp Pro Asn Ala Ile			
	385	390	395
Pro Ser Asp Glu His Thr Phe Thr Phe Asn Ser Pro Asn Ser Trp Ala			
	405	410	415
Pro Ala Ala Tyr Asp Ala Lys Leu Asp Leu Val Tyr Leu Pro Met Gly			
	420	425	430
Val Thr Thr Pro Asp Ile Trp Gly Gly Asn Arg Thr Pro Glu Gln Glu			
	435	440	445
Arg Tyr Ala Ser Ser Ile Val Ala Leu Asn Ala Thr Thr Gly Lys Leu			
	450	455	460
Ala Trp Ser Tyr Gln Thr Val His His Asp Leu Trp Asp Met Asp Met			
	465	470	475
Pro Ser Gln Pro Thr Leu Ala Asp Ile Thr Val Asn Gly Lys Thr Val			
	485	490	495

Pro Val Ile Tyr Ala Pro Ala Lys Thr Gly Asn Ile Phe Val Leu Asp
 500 505
 Arg Ser Asn Gly Lys Leu Val Val Pro Ala Pro Glu Lys Pro Val Pro
 515 520
 Gln Gly Ala Ala Lys Gly Xaa Tyr Val Thr Lys Thr Gln Pro Phe Ser
 530 535 540
 Asp Leu Ser Phe Arg Pro Lys Lys Asp Leu Ser Gly Ala Asp Met Trp
 545 550 555
 Gly Ala Thr Met Phe Asp Gln Leu Val Cys Arg Val Met Phe His Gln
 565 570 575
 Leu Arg Tyr Glu Ile Phe Thr Pro Ser Glu Gln Gly Thr Leu
 580 585 590
 Val Phe Pro Gly Asn Leu Gly Met Phe Glu Trp Gly Gly Ile Ser Val
 595 600 605
 Asp Pro Asn Arg Gln Val Ala Ile Ala Asn Pro Met Ala Leu Pro Phe
 610 615 620
 Val Ser Arg Leu Ile Pro Arg Gly Pro Gly Asn Pro Met Glu Gln Pro
 625 630 635
 Lys Asp Ala Lys Gly Ser Gly Thr Glu Ala Gly Ile Gln Pro Gln Tyr
 645 650 655
 Gly Val Pro Tyr Gly Val Thr Leu Asn Pro Phe Leu Ser Pro Phe Gly
 660 665 670
 Leu Pro Cys Lys Gln Pro Ala Trp Gly Tyr Ile Ser Gly Leu Asp Leu
 675 680 685
 Lys Thr Asn Lys Ile Val Trp Lys Lys Arg Ile Gly Thr Pro Gln Asp
 690 695 700
 Ser Met Pro Phe Pro Met Pro Val Pro Val Pro Phe Asn Met Gly Met
 705 710 715 720
 Pro Met Leu Gly Gly Pro Ile Ser Thr Ala Gly Asn Val Leu Phe Ile
 725 730 735
 Ala Ala Thr Ala Asp Asn Tyr Leu Arg Ala Tyr Asn Met Thr Asn Gly
 740 745 750
 Glu Lys Leu Trp Gln Gly Arg Leu Pro Ala Gly Gly Gln Ala Thr Pro
 755 760 765
 Met Thr Tyr Glu Val Asn Gly Lys Gln Tyr Val Val Ile Ser Ala Gly
 770 775 780
 Gly His Gly Ser Phe Gly Thr Lys Met Gly Asp Tyr Ile Val Ala Tyr
 785 790 795 800
 Ala Leu Pro Asp Asp Ala Lys
 805

<210> 9630

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 9630

Met Arg Leu Arg Ala Ser Gly Ala Ser Asn Ser Gly Met Gly Lys Ala
 1 5 10 15
 Gly Leu Ser Ala Ala Lys Thr Ala Arg Leu Gln Arg Gly Ile Ala Leu
 20 25 30
 Ala Thr Pro Ser Ala Ala Glu Asn Phe Lys Lys Ser Arg Arg Cys Met
 35 40 45
 Cys Ile Ser Leu Phe Pro Ala Gly Asp Leu Leu Ser Ile Asn Pro Pro
 50 55 60
 Leu Thr Gly Arg Ser Ser Thr Ala Ala Ile Ile Lys Ile Val Gly Leu
 65 70 75 80
 Ala Ser Ser Met Leu Thr Leu Ile Phe Arg Asp Ala Val Val Lys Ala
 85 90 95
 Met Lys Thr Phe Phe Arg Thr Ile Leu Phe Ala Ser Leu Met Ala Met
 100 105 110

Cys Ala Asn Ser Tyr Ala Leu Ser Glu Asn Glu Ala Glu Asp Met Ala
 115 120 125
 Asp Leu Thr Ala Val Phe Val Phe Leu Lys Asn Asp Cys Gly Tyr Gln
 130 135 140
 Asn Leu Pro Asn Gly Gln Ile Arg Arg Ala Leu Val Phe Phe Ala Gln
 145 150 155 160
 Gln Asn Gln Trp Asp Leu Ser Asn Tyr Asp Ser Phe Asp Met Lys Ala
 165 170 175
 Leu Gly Glu Asp Ser Tyr Arg Asp Leu Ser Gly Ile Gly Ile Pro Thr
 180 185 190
 Ala Lys Lys Cys Lys Ala Leu Ala Arg Asp Ser Leu Ser Leu Leu Ala
 195 200 205
 Tyr Val Lys
 210

<210> 9631

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 9631

Tyr Ser Arg Gln Gln Gln Arg Leu Thr Ala Leu His Ser Ser Arg Trp
 1 5 10 15
 Ser Gln Ser Met Lys Leu Pro Phe Lys Pro His Leu Leu Val Leu Leu
 20 25 30
 Cys Ser Ala Gly Leu Phe Ala Ala Ser Gly Val Met Phe Val Lys Ser
 35 40 45
 Arg Ala Thr Glu Pro Ala Pro Ala Pro Ala Pro Val Ala Pro Gln Leu
 50 55 60
 Pro Asp Pro Ala Ala Gln Pro Ala Pro Val Ala Thr Pro Ala Tyr Thr
 65 70 75 80
 Ala Ala Gln Ile Asp Gln Trp Thr Ala Pro Ile Ala Leu Tyr Pro Asp
 85 90 95
 Ala Leu Leu Ser Gln Ile Leu Met Ala Ser Thr Tyr Pro Ala Ser Val
 100 105 110
 Ile Gln Ala Ala Gln Trp Ser Lys Asp Asn Pro Lys Met Gln Gly Asp
 115 120 125
 Ala Ala Ile Gln Ala Val Ser Gly Gln Pro Trp Asn Ala Ser Val Lys
 130 135 140
 Ser Leu Val Ala Phe Pro Gln Leu Met Ser Leu Met Gly Glu Asn Pro
 145 150 155 160
 Ser Trp Val Gln Ser Leu Gly Asp Ala Phe Leu Ala Gln Pro Lys Asp
 165 170 175
 Val Met Asp Ser Val Gln Arg Leu Arg Leu Leu Ala Gln Gln Thr Gly
 180 185 190
 Thr Leu Gln Ser Thr Pro Gln Gln Thr Val Thr Thr Val Lys Lys Ser
 195 200 205
 Ala Pro Ala Ser Ala Ser Thr Ala Ala Thr Ser Thr Ser Ala Ser Pro
 210 215 220
 Thr Val Ile Lys Ile Glu Pro Ala Asp Pro Gln Val Val Tyr Val Pro
 225 230 235 240
 Thr Tyr Asn Pro Ser Thr Val Tyr Gly Thr Trp Pro Asn Ala Ser Tyr
 245 250 255
 Pro Pro Val Tyr Leu Pro Pro Ser Pro Gly Gln Gln Phe Thr Asn Ser
 260 265 270
 Phe Val Arg Gly Phe Gly Tyr Ser Leu Gly Val Ala Thr Thr Tyr Ala
 275 280 285
 Leu Phe Ser Asn Ile Asp Trp Asp Asp Asp Asp His His His Asp
 290 295 300
 His Asp Asp Asp His His Gly Gly Tyr Ser His Asn Gly Asp Asn Ile
 305 310 315 320

Asn Ile Asn Val Asn Asn Phe Asn Lys Ile Thr Gly Glu His Arg Thr
 325 330 335
 Asp Asn His Gln Val Trp Gln His Asn Pro Ala Tyr Arg Asn Gly Val
 340 345 350
 Pro Tyr Ala Asn Ser Gln Leu Ala Ser Arg Tyr His Gln Thr Ser Val
 355 360 365
 Pro Gly Gly Leu Ser Ala Thr Arg Gln Gln Pro Val Asn Arg Asp Ser
 370 375 380
 Gln Arg Gln Ala Ala Met Ala Gln Val Gln Gln Ser Thr Gly Lys Thr
 385 390 395 400
 Leu Thr Gln Leu Gln His Gly Asp Ala His Phe Pro Gln His Ser Ala
 405 410 415
 Ser Ala Gln Gln Leu Lys Gln Leu Ser Gln Arg Ser Asn Tyr Arg Gly
 420 425 430
 Tyr Asp Ser Ala Arg Pro His Ala Gln Gln Met Asn Asn Thr Leu Ala
 435 440 445
 Gln Thr Arg Arg Pro Thr Gln Val Gln His Gln Pro Leu Arg Ala Asn
 450 455 460
 Ala Leu Ser Gly Asn Asp Ser Arg Ser Ala Ser Trp Gln Ala Gln His
 465 470 475 480
 Gln Arg Gly Leu Gln Ser Arg Gln His Ala Ser Leu Asn Ser Glu Gln
 485 490 495
 Arg Ala Ser Phe Arg Gln Gln Leu Ser Glu His His Thr Glu His His
 500 505 510
 Glu Phe His Arg Arg
 515

<210> 9632

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9632

Gly Ala Asp Met Asn Arg Gln Gln Gly Phe Thr Leu Ile Glu Leu Met
 1 5 10 15
 Val Val Ile Gly Ile Ile Ala Ile Leu Ser Ala Ile Gly Val Pro Ala
 20 25 30
 Tyr Gln Asn Tyr Leu Arg Lys Ala Ala Leu Thr Asp Met Leu Gln Thr
 35 40 45
 Phe Ile Pro Tyr Arg Thr Ala Ile Glu Leu Cys Ala Leu Asp Arg Gly
 50 55 60
 Gly Val Asp Arg Cys Asp Ala Gly Thr Asn Gly Ile Pro Ser Pro Thr
 65 70 75 80
 Thr Thr Arg Tyr Val Ser Ala Met Ser Val Ala Lys Gly Ile Val Ser
 85 90 95
 Leu Thr Gly Gln Glu Ser Leu Asn Gly Leu Glu Val Leu Met Thr Pro
 100 105 110
 Ile Trp Ser Asp Gly Asn Gly Met Thr Gly Trp Thr Arg Asp Cys Lys
 115 120 125
 Ile Ala Ser Asp Thr Ala Leu Arg Gln Ala Cys Glu Asp Val Phe Arg
 130 135 140
 Phe Asp Asn Asn
 145

<210> 9633

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 9633

Gln Glu Trp Thr Met Asn Thr Glu Gln Leu Met Thr Leu Cys Gln Arg

1	5	10	15
His His Ala Leu Leu Leu Ala Ser Asp Thr Glu Met Ile Ser Ile Ala			
Val Val Gly Asn Pro Ala Ser Glu Leu Met Glu Ala Leu Arg Phe Ala	20	25	30
Thr Gln Lys Arg Ile Asp Ile Glu Cys Trp Thr Ala Glu Arg Met Glu	35	40	45
Lys Arg Leu Gln Ser Leu Ser Ser Ser His Leu Pro Gly Ile Val Pro	50	55	60
Asn Ser Ala Ala Asp Val Leu Ser Thr Thr Leu Gln Gln Ala Val Asn	65	70	75
Gln Arg Ala Ser Asp Ile His Ile Glu Pro Thr Glu His Gly Tyr Gln	85	90	95
Ile Arg Leu Arg Ile Asp Gly Val Leu Tyr Pro Gln Pro Pro Ile Ser	100	105	110
Ala Ala Leu Gly Thr Thr Leu Ala Ala Arg Leu Lys Val Leu Gly Gln	115	120	125
Leu Asp Ile Ala Glu Arg Arg Leu Pro Gln Asp Gly Gln Phe Thr Val	130	135	140
Glu Leu Ala Ser Val Pro Val Ser Phe Arg Ile Ala Thr Leu Pro Cys	145	150	155
Ser Gly Gly Glu Lys Ile Val Leu Arg Leu Leu His Gln Val Gln Gln	165	170	175
Ala Leu Glu Leu Glu Gln Leu Gly Met Ser Ala Asp Gln Gln Ala Arg	180	185	190
Phe Ala Glu Ala Leu Asn Ser Pro Gln Gly Leu Ile Leu Val Thr Gly	195	200	205
Pro Thr Gly Ser Gly Lys Thr Val Thr Leu Tyr Ser Ala Leu Gln Ala	210	215	220
Arg Asn Thr Pro Asp Val Asn Ile Cys Ser Val Glu Asp Pro Val Glu	225	230	235
Ile Pro Leu Ala Gly Leu Asn Gln Thr Gln Ile Asn Pro Arg Ala Gly	245	250	255
Leu Thr Phe Gln Ser Val Leu Arg Ala Leu Leu Arg Gln Asp Pro Asp	260	265	270
Ile Ile Met Val Gly Glu Ile Arg Asp Gly Glu Thr Ala Glu Ile Ala	275	280	285
Ile Lys Ala Ala Gln Thr Gly His Leu Val Leu Ser Thr Leu His Thr	290	295	300
Asn Ser Thr Thr Glu Thr Leu Val Arg Leu Gln Gln Met Gly Val Ala	305	310	315
Arg Trp Met Ile Ser Ser Ala Leu Ser Met Val Ile Ala Gln Arg Leu	325	330	335
Val Arg Arg Leu Cys Pro Tyr Cys Arg Gln Glu Ala Ser Arg His Thr	340	345	350
Glu Leu Pro Arg Thr Leu Trp Pro Arg Pro Leu Pro Arg Trp Gln Pro	355	360	365
Thr Gly Cys Asp Arg Cys Tyr His Gly Phe Tyr Gly Arg Val Ala Ile	370	375	380
Phe Glu Val Leu Val Ile Asp Asp Thr Leu Arg Gln Ala Ile Ala Ser	385	390	395
Gly Ala Ser Thr Glu Val Ile Gly Ser Ser Ala Arg Gln Ala Gly Met	405	410	415
Thr Ser Leu Phe Glu His Gly Cys Met Ala Val Glu Gln Gly Leu Thr	420	425	430
Thr Leu Glu Glu Leu Leu Arg Val Leu Gly Met Pro Asp Gly Cys	435	440	445
	450	455	460

<210> 9634

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 9634

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Arg Arg Thr Arg Cys His Cys Ile Gly Cys Cys Ser Ser Ala Arg Ala
1      5      10
Val Ser Asp Leu Arg Arg Ala Gly Arg Cys Thr Gly Lys Thr Ile Met
20      25      30
Ser Thr His Ile Leu Phe Glu His Pro Leu Asn Glu Lys Met Arg Thr
35      40      45
Trp Leu Arg Ile Glu Phe Leu Ile Gln Gln Leu Ser Gln His Leu Pro
50      55      60
Val Asn Asp His Ala Thr Ala Leu His Phe Phe Arg Asn Val Gly Asp
65      70      75
Leu Leu Asp Val Ile Glu Arg Gly Asp Val Arg Thr Glu Leu Leu Lys
85      90      95
Glu Leu Glu Arg Gln Gln Arg Lys Leu Gln Ala Trp Ala Glu Val Pro
100     105     110
Gly Val Asp Gln Ser Arg Ile Asp Ala Leu Arg Gln Gln Leu Lys Asn
115     120     125
Ser Ser Thr Thr Leu Met Ala Ala Pro Arg Val Gly Gln Phe Leu Arg
130     135     140
Glu Asp Arg Leu Ile Ala Leu Val Arg Gln Arg Leu Ser Ile Pro Gly
145     150     155
Gly Cys Cys Ser Phe Asp Leu Pro Thr Leu His Met Trp Leu His Met
165     170     175
Pro Gln Glu Gln Arg Asp Arg Gln Val Asn Ser Trp Leu Gly Ser Leu
180     185     190
Glu Pro Met Asn Gln Thr Leu Ser Leu Ile Leu Asp Leu Val Arg Asn
195     200     205
Ser Ala Pro Phe Arg Lys Gln Thr Ser Leu Asn Gly Phe Tyr Gln Asp
210     215     220
Asn Gly Asp Asp Ala Asp Leu Leu Arg Leu Asn Leu Ser Leu Ser Glu
225     230     235
Gln Leu Tyr Pro Gln Ile Ser Gly His Lys Ser Arg Phe Ala Ile Arg
245     250     255
Phe Met Pro Leu Asp Ser Glu His Gly Thr Val Pro Glu Arg Leu Asp
260     265     270
Phe Glu Leu Ala Cys Cys
275

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<210> 9635

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 9635

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Gly Val Pro Met Ser Asp Val Thr Thr Val Asn Cys Pro Thr Cys Gly
1      5      10
Lys Thr Val Val Trp Gly Glu Val Ser Pro Phe Arg Pro Phe Cys Cys
20      25      30
Lys Arg Cys Gln Leu Ile Asp Leu Gly Glu Trp Ala Ala Glu Glu Lys
35      40      45
Arg Ile Pro Ser Glu Gly Asp Leu Ser Asp Ser Asp Trp Ser Glu
50      55      60
Asn Gln Gln
65

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<210> 9636

<211> 913

<212> PRT

<213> Enterobacter cloacae

<400> 9636

Met Arg Gly Ser Phe Gln Pro Arg Val Arg Leu Leu Leu Ile Lys Leu
 1 5 10 15
 Leu Thr Arg Val Phe Gly Ser Arg Asn Asp Arg Thr Leu Arg Arg Met
 20 25 30
 Arg Lys Ala Val Asn Val Ile Asn Gly Met Glu Pro Ala Met Glu Lys
 35 40 45
 Leu Ser Asp Asp Glu Leu Lys Ala Lys Thr Ala Glu Phe Arg Ala Arg
 50 55 60
 Leu Glu Lys Gly Glu Thr Leu Glu Ser Leu Ile Pro Glu Ala Phe Ala
 65 70 75 80
 Val Val Arg Glu Ala Ser Lys Arg Val Phe Gly Met Arg His Phe Asp
 85 90 95
 Val Gln Leu Leu Gly Gly Met Val Leu Asn Glu Arg Cys Ile Ala Glu
 100 105 110
 Met Arg Thr Gly Glu Gly Lys Thr Leu Thr Ala Thr Leu Pro Ala Tyr
 115 120 125
 Leu Asn Ala Leu Thr Gly Lys Gly Val His Val Val Thr Val Asn Asp
 130 135 140
 Tyr Leu Ala Gln Arg Asp Ala Glu Asn Asn Arg Pro Leu Phe Glu Phe
 145 150 155 160
 Leu Gly Met Thr Val Gly Ile Asn Met Ser Gly Leu Pro Ala Pro Ala
 165 170 175
 Lys Arg Glu Ala Tyr Asn Ala Asp Ile Thr Tyr Gly Thr Asn Asn Glu
 180 185 190
 Tyr Gly Phe Asp Tyr Leu Arg Asp Asn Met Ala Phe Ser Pro Glu Glu
 195 200 205
 Arg Val Gln Arg Lys Leu His Tyr Ala Leu Val Asp Glu Val Asp Ser
 210 215 220
 Ile Leu Ile Asp Glu Ala Arg Thr Pro Leu Ile Ser Gly Pro Ala
 225 230 235 240
 Glu Asp Ser Ser Glu Met Tyr Arg Lys Val Asp Lys Ile Ile Pro His
 245 250 255
 Leu Leu Arg Gln Glu Lys Glu Asp Ser Asp Thr Phe Gln Gly Glu Gly
 260 265 270
 His Phe Ser Val Asp Glu Lys Ala Arg Gln Val Asn Leu Thr Glu Arg
 275 280 285
 Gly Leu Val Lys Ile Glu Glu Leu Leu Val Ala Glu Gly Ile Met Glu
 290 295 300
 Glu Gly Glu Ser Leu Tyr Ser Pro Ser Asn Ile Met Leu Met His His
 305 310 315 320
 Val Thr Ala Ala Leu Arg Ala His Ala Leu Phe Thr Arg Asp Val Asp
 325 330 335
 Tyr Ile Val Lys Asp Gly Glu Val Ile Ile Val Asp Glu His Thr Gly
 340 345 350
 Arg Thr Met Gln Gly Arg Arg Trp Ser Asp Gly Leu His Gln Ala Val
 355 360 365
 Glu Ala Lys Glu Gly Val Asp Ile Gln Asn Glu Asn Gln Thr Leu Ala
 370 375 380
 Ser Ile Thr Phe Gln Asn Tyr Phe Arg Leu Tyr Glu Lys Leu Ala Gly
 385 390 395 400
 Met Thr Gly Thr Ala Asp Thr Glu Ala Phe Glu Phe Ser Ser Ile Tyr
 405 410 415
 Lys Leu Asp Thr Val Val Val Pro Thr Asn Arg Pro Met Ile Arg Lys
 420 425 430
 Asp Met Pro Asp Leu Val Tyr Met Thr Glu Ala Glu Lys Ile Gln Ala
 435 440 445
 Ile Ile Glu Asp Ile Arg Glu Arg Thr Ala Lys Gly Gln Pro Val Leu
 450 455 460
 Val Gly Thr Ile Ser Ile Glu Lys Ser Glu Val Val Ser Asn Glu Leu

465 470 475 480
 Thr Lys Ala Gly Ile Lys His Asn Val Leu Asn Ala Lys Phe His Ala
 485 490 495
 Lys Glu Ala Asp Ile Val Ala Gln Ala Gly Tyr Pro Ala Ala Val Thr
 500 505 510
 Ile Ala Thr Asn Met Ala Gly Arg Gly Thr Asp Ile Met Leu Gly Gly
 515 520 525
 Ser Trp Gln Ala Glu Val Ala Glu Leu Glu Asn Pro Thr Pro Glu Gln
 530 535 540
 Ile Ala Gln Ile Lys Ala Asp Trp Gln Val Arg His Asp Ala Val Leu
 545 550 555 560
 Pro Ser Gly Gly Leu His Ile Ile Gly Thr Glu Arg His Glu Ser Arg
 565 570 575
 Arg Ile Asp Asn Gln Leu Arg Gly Arg Ala Gly Arg Gln Gly Asp Ala
 580 585 590
 Gly Ser Ser Arg Phe Tyr Leu Ser Met Glu Asp Ala Leu Met Arg Ile
 595 600 605
 Phe Ala Ser Asp Arg Val Ser Gly Met Met Arg Lys Leu Gly Met Lys
 610 615 620
 Pro Gly Glu Ala Ile Glu His Pro Trp Val Thr Lys Ala Ile Ala Asn
 625 630 635 640
 Ala Gln Arg Lys Val Glu Ser Arg Asn Phe Asp Ile Arg Lys Gln Leu
 645 650 655
 Leu Glu Tyr Asp Asp Val Ala Asn Asp Gln Arg Arg Ala Ile Tyr Thr
 660 665 670
 Gln Arg Asn Glu Leu Leu Asp Val Ser Asp Val Ser Glu Thr Ile Asn
 675 680 685
 Ser Ile Arg Glu Asp Val Phe Lys Ala Thr Ile Asp Ala His Ile Pro
 690 695 700
 Pro Gln Ser Leu Glu Glu Met Trp Asp Ile Glu Gly Leu Gln Glu Arg
 705 710 715 720
 Leu Lys Asn Asp Phe Asp Leu Glu Leu Pro Ile Lys Glu Trp Leu Asp
 725 730 735
 Lys Glu Pro Glu Leu His Glu Glu Thr Leu Arg Glu Arg Ile Tyr Glu
 740 745 750
 Thr Ala Leu Asp Val Tyr Lys Arg Lys Glu Glu Val Val Gly Ala Glu
 755 760 765
 Met Met Arg His Phe Glu Lys Gly Val Met Leu Gln Thr Leu Asp Ser
 770 775 780
 Leu Trp Lys Glu His Leu Ala Ala Met Asp Tyr Leu Arg Gln Gly Ile
 785 790 795 800
 His Leu Arg Gly Tyr Ala Gln Lys Asp Pro Lys Gln Glu Tyr Lys Arg
 805 810 815
 Glu Ser Phe Ser Met Phe Ala Ala Met Leu Glu Ser Leu Lys Tyr Glu
 820 825 830
 Val Ile Ser Thr Leu Ser Lys Val Gln Val Arg Met Pro Glu Glu Val
 835 840 845
 Glu Ala Met Glu Gln Gln Arg Arg Glu Glu Ala Glu Arg Leu Ala Gln
 850 855 860
 Met Gln Gln Leu Ser His Gln Thr Asp Glu Ser Glu Ala Ala Ala Ala
 865 870 875 880
 Ile Ala Ala Gln Thr Gly Asp Arg Lys Val Gly Arg Asn Asp Pro Cys
 885 890 895
 Pro Cys Gly Ser Gly Lys Lys Tyr Lys Ala Cys His Gly Arg Leu Ser
 900 905 910

<210> 9637

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 9637

Glu His Asn Lys Leu Lys Arg Arg Arg Tyr Leu Arg Leu Phe Tyr Gly
 1 5 10 15
 Ser Asp Met Met Lys Thr Leu Gln Ile Ala Val Gly Ile Ile Arg Asn
 20 25 30
 Pro Gln Asn Gln Ile Phe Ile Thr Gln Arg Ala Ala Asp Ala His Met
 35 40 45
 Ala Asn Lys Trp Glu Phe Pro Gly Gly Lys Ile Glu Ser Gly Glu Thr
 50 55 60
 Pro Glu Gln Ala Leu Val Arg Glu Leu Gln Glu Glu Val Gly Ile Thr
 65 70 75 80
 Pro Leu Gly Ala Thr Leu Phe Asp Lys Leu Glu Tyr Gln Phe Pro Asp
 85 90 95
 Arg His Ile Thr Leu Trp Phe Trp Leu Val Glu Ser Trp Glu Gly Glu
 100 105 110
 Pro Trp Gly Lys Glu Gly Gln Pro Gly Gly Trp Val Thr Leu His Ala
 115 120 125
 Ser Asp Ala Glu Lys Phe Pro Pro Ala Asn Ala Pro Val Ile Ser Arg
 130 135 140
 Leu Thr Gly Asn Leu
 145 150

<210> 9638

<211> 366

<212> PRT

<213> Enterobacter cloacae

<400> 9638

Arg His Trp Ser Cys Ala Phe Asn Ile Phe Ala Ser Asn Pro Arg Asn
 1 5 10 15
 Pro His Met Arg Ile Glu Glu Asp Leu Lys Leu Gly Phe Lys Asp Val
 20 25 30
 Leu Ile Arg Pro Lys Arg Ser Thr Leu Lys Ser Arg Ser Asp Val Glu
 35 40 45
 Leu Glu Arg Gln Phe Thr Phe Lys His Ser Gly Gln Thr Trp Ser Gly
 50 55 60
 Val Pro Ile Ile Ala Ala Asn Met Asp Thr Val Gly Thr Phe Glu Met
 65 70 75 80
 Ala Thr Ala Leu Ala Gln Phe Asp Ile Leu Thr Ala Val His Lys His
 85 90 95
 Tyr Ser Ala Glu Glu Trp Asp Ala Phe Val Ala Ser Ala Ser Ala Glu
 100 105 110
 Val Val Lys His Val Met Val Ser Thr Gly Thr Ser Asp Ala Asp Phe
 115 120 125
 Glu Lys Thr Lys Gln Ile Leu Asn Ala Asn Pro Ala Leu Asn Phe Val
 130 135 140
 Cys Ile Asp Val Ala Asn Gly Tyr Ser Glu His Phe Val Gln Phe Val
 145 150 155 160
 Ser Lys Ala Arg Glu Ala Trp Pro Thr Lys Thr Ile Ile Ala Gly Asn
 165 170 175
 Val Val Thr Gly Glu Met Cys Glu Glu Leu Ile Leu Ser Gly Ala Asp
 180 185 190
 Ile Val Lys Val Gly Ile Gly Pro Gly Ser Val Cys Thr Thr Arg Val
 195 200 205
 Lys Thr Gly Val Gly Tyr Pro Gln Leu Ser Ala Val Ile Glu Cys Ala
 210 215 220
 Asp Ala Ala His Gly Leu Gly Gly Gln Ile Ile Ser Asp Gly Gly Cys
 225 230 235 240
 Thr Met Pro Gly Asp Val Ala Lys Ala Phe Gly Gly Gly Ala Asp Phe

Leu Lys Asn Pro Pro Glu Gly Glu Glu Phe Leu Asp Leu Leu
 50 55 60
 Ile Asn Arg Val Pro Pro Gly Val Asp Glu Ala Ala Tyr Val Lys Ala
 65 70 75 80
 Gly Phe Leu Ala Ala Val Ala Lys Gly Glu Ala Thr Ser Pro Leu Val
 85 90 95
 Thr Pro Glu Lys Ala Ile Glu Leu Leu Gly Thr Met Gln Gly Gly Tyr
 100 105 110
 Asn Ile His Pro Leu Ile Asp Ala Leu Asp Asn Asp Lys Leu Ala Pro
 115 120 125
 Ile Ala Ala Lys Ala Leu Ser Ser Thr Leu Leu Met Phe Asp Asn Phe
 130 135 140
 Tyr Asp Val Glu Glu Lys Ala Lys Ala Gly Asn Val Tyr Ala Lys Gln
 145 150 155 160
 Val Met Gln Ser Trp Ala Asp Ala Glu Trp Phe Leu Asn Arg Pro Gln
 165 170 175
 Leu Ala Glu Lys Ile Thr Val Thr Val Phe Lys Val Thr Gly Glu Thr
 180 185 190
 Asn Thr Asp Asp Leu Ser Pro Ala Pro Asp Ala Trp Ser Arg Pro Asp
 195 200 205
 Ile Pro Leu His Ala Leu Ala Met Leu Lys Asn Ala Arg Glu Gly Ile
 210 215 220
 Glu Pro Asp Gln Pro Gly Ser Val Gly Pro Ile Lys Gln Ile Glu Ala
 225 230 235 240
 Leu Gln Gln Lys Gly Phe Pro Leu Ala Tyr Val Gly Asp Val Val Gly
 245 250 255
 Thr Gly Ser Ser Arg Lys Ser Ala Thr Asn Ser Val Leu Trp Phe Met
 260 265 270
 Gly Asp Asp Ile Pro His Val Pro Asn Lys Arg Gly Gly Gly Leu Cys
 275 280 285
 Leu Gly Gly Lys Ile Ala Pro Ile Phe Phe Asn Thr Met Glu Asp Ala
 290 295 300
 Gly Ala Leu Pro Ile Glu Val Asp Val Ser Asn Leu Asn Met Gly Asp
 305 310 315 320
 Val Ile Asp Val Tyr Pro Tyr Lys Gly Glu Val Arg Asn His Glu Thr
 325 330 335
 Asn Glu Leu Leu Ala Ser Phe Glu Leu Lys Thr Asp Val Leu Ile Asp
 340 345 350
 Glu Val Arg Ala Gly Gly Arg Ile Pro Leu Ile Ile Gly Arg Gly Leu
 355 360 365
 Thr Thr Lys Ala Arg Glu Ala Leu Gly Leu Pro His Ser Asp Val Phe
 370 375 380
 Arg Gln Ala Lys Asp Val Ala Glu Ser Asn Arg Gly Phe Ser Leu Ala
 385 390 395 400
 Gln Lys Met Val Gly Arg Ala Cys Gly Val Ala Gly Ile Arg Pro Gly
 405 410 415
 Ala Tyr Cys Glu Pro Lys Met Thr Ser Val Gly Ser Gln Asp Thr Thr
 420 425 430
 Gly Pro Met Thr Arg Asp Glu Leu Lys Asp Leu Ala Cys Leu Gly Phe
 435 440 445
 Ser Ser Asp Leu Val Met Gln Ser Phe Cys His Thr Ala Ala Tyr Pro
 450 455 460
 Lys Pro Val Asp Val Thr Thr His His Thr Leu Pro Asp Phe Ile Met
 465 470 475 480
 Asn Arg Gly Gly Val Ser Leu Arg Pro Gly Asp Gly Val Ile His Ser
 485 490 495
 Trp Leu Asn Arg Met Leu Leu Pro Asp Thr Val Gly Thr Gly Gly Asp
 500 505 510
 Ser His Thr Arg Phe Pro Ile Gly Ile Ser Phe Pro Ala Gly Ser Gly
 515 520 525
 Leu Val Ala Phe Ala Ala Ala Thr Gly Val Met Pro Leu Asp Met Pro

530		535		540
Glu Ser Val Leu Val Arg Phe Lys Gly Lys Met Gln Pro Gly Ile Thr				
545	550	555	560	
Leu Arg Asp Leu Val His Ala Ile Pro Leu Tyr Ala Ile Lys Gln Gly				
	565	570	575	
Leu Leu Thr Val Glu Lys Lys Gly Lys Lys Asn Ile Phe Ser Gly Arg				
	580	585	590	
Ile Leu Glu Ile Glu Gly Leu Pro Asp Leu Lys Val Glu Gln Ala Phe				
	595	600	605	
Glu Leu Thr Asp Ala Ser Ala Glu Arg Ser Ala Ala Gly Cys Thr Ile				
	610	615	620	
Lys Leu Asn Lys Glu Pro Ile Ile Glu Tyr Leu Asn Ser Asn Ile Val				
	625	630	635	640
Leu Leu Lys Trp Met Ile Ala Glu Gly Tyr Gly Asp Arg Arg Thr Leu				
	645	650	655	
Glu Arg Arg Ile Gln Gly Met Glu Lys Trp Leu Ala Asp Pro Gln Leu				
	660	665	670	
Leu Glu Ala Asp Ala Asp Ala Glu Tyr Ala Ala Val Ile Asp Ile Asp				
	675	680	685	
Leu Ala Asp Ile Lys Glu Pro Ile Leu Cys Ala Pro Asn Asp Pro Asp				
	690	695	700	
Asp Ala Arg Pro Leu Ser Glu Val Gln Gly Glu Lys Ile Asp Glu Val				
	705	710	715	720
Phe Ile Gly Ser Cys Met Thr Asn Ile Gly His Phe Arg Ala Ala Gly				
	725	730	735	
Lys Leu Leu Asp Thr His Lys Gly Gln Leu Pro Thr Arg Leu Trp Val				
	740	745	750	
Ala Pro Pro Thr Arg Met Asp Ala Ala Gln Leu Thr Glu Glu Gly Tyr				
	755	760	765	
Tyr Ser Val Phe Gly Lys Ser Gly Ala Arg Ile Glu Ile Pro Gly Cys				
	770	775	780	
Ser Leu Cys Met Gly Asn Gln Ala Arg Val Ala Asp Gly Ala Thr Val				
	785	790	795	800
Val Ser Thr Ser Thr Arg Asn Phe Pro Asn Arg Leu Gly Thr Gly Ala				
	805	810	815	
Asn Val Phe Leu Ala Ser Ala Glu Leu Ala Ala Val Ala Ala Leu Ile				
	820	825	830	
Gly Lys Leu Pro Thr Pro Glu Glu Tyr Gln Thr Phe Val Ala Gln Val				
	835	840	845	
Asp Lys Thr Ala Val Asp Thr Tyr Arg Tyr Leu Asn Phe Asp Gln Leu				
	850	855	860	
Ser Gln Tyr Thr Glu Lys Ala Asp Gly Val Ile Phe Gln Thr Ala Val				
	865	870	875	880

<210> 9641

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 9641

Asn His Leu Val Ser Asn Met Lys His Thr Val Glu Val Met Ile Pro				
1	5	10	15	
Glu Ala Glu Ile Lys Ala Arg Ile Ala Glu Leu Gly Arg Gln Ile Thr				
	20	25	30	
Glu His Tyr Lys Asp Ser Gly Ser Glu Met Val Leu Val Gly Leu Leu				
	35	40	45	
Arg Gly Ser Phe Met Phe Met Ala Asp Leu Cys Arg Glu Val Gln Val				
	50	55	60	
Pro His Glu Val Asp Phe Met Thr Ala Ser Ser Tyr Gly Ser Gly Met				

```

65          70          75          80
Ser Thr Thr Arg Asp Val Lys Ile Leu Lys Asp Leu Asp Glu Asp Ile
      85          90          95
Arg Gly Lys Asp Val Leu Ile Val Glu Asp Ile Ile Asp Ser Gly Asn
      100          105          110
Thr Leu Ser Lys Val Arg Glu Ile Leu Ser Leu Arg Glu Pro Lys Ser
      115          120          125
Leu Ala Ile Cys Thr Leu Leu Asp Lys Pro Glu Arg Arg Glu Val Gln
      130          135          140
Val Pro Val Glu Phe Val Gly Phe Ser Ile Pro Asp Glu Phe Val Val
      145          150          155          160
Gly Tyr Gly Ile Asp Tyr Ala Gln Arg Tyr Arg His Leu Pro Tyr Val
      165          170          175
Gly Lys Val Val Ile Leu Asp Glu
      180          185

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<210> 9642

<211> 312

<212> PRT

<213> *Enterobacter cloacae*

<400> 9642

```

Val Glu Phe Met Ala Ile Ala Leu Glu Leu Glu Gln Leu Lys Lys Thr
1          5          10          15
Tyr Pro Gly Gly Val Gln Ala Leu Arg Gly Ile Asp Leu Lys Val Glu
      20          25          30
Ala Gly Asp Phe Tyr Ala Leu Leu Gly Pro Asn Gly Ala Gly Lys Ser
      35          40          45
Thr Thr Ile Gly Ile Ile Ser Ser Leu Val Asn Lys Thr Ser Gly Arg
      50          55          60
Val Ser Val Phe Gly Tyr Asp Leu Gln Lys Asp Val Val Asn Ala Lys
      65          70          75          80
Arg Gln Leu Gly Leu Val Pro Gln Glu Phe Asn Phe Asn Pro Phe Glu
      85          90          95
Thr Val Gln Gln Ile Val Val Asn Gln Ala Gly Tyr Tyr Gly Val Glu
      100          105          110
Arg Lys Glu Ala Leu Glu Arg Ser Glu Lys Tyr Leu Lys Gln Leu Asp
      115          120          125
Leu Trp Glu Lys Arg Asn Glu Arg Ala Arg Met Leu Ser Gly Gly Met
      130          135          140
Lys Arg Arg Leu Met Ile Ala Arg Ala Leu Met His Glu Pro Lys Leu
      145          150          155          160
Leu Ile Leu Asp Glu Pro Thr Ala Gly Val Asp Ile Glu Leu Arg Arg
      165          170          175
Ser Met Trp Gly Phe Leu Lys Asp Leu Asn Asp Lys Gly Thr Thr Ile
      180          185          190
Ile Leu Thr Thr His Tyr Leu Glu Glu Ala Glu Met Leu Cys Arg Asn
      195          200          205
Ile Gly Ile Ile Gln His Gly Glu Leu Val Glu Asn Thr Ser Met Lys
      210          215          220
Asn Leu Leu Ser Lys Leu Lys Ser Glu Thr Phe Ile Leu Asp Leu Ala
      225          230          235          240
Ala Lys Ser Ala Leu Pro Lys Leu Glu Gly Tyr Asn Tyr Arg Leu Val
      245          250          255
Asp Thr Ser Thr Leu Glu Val Glu Val Leu Arg Glu Gln Gly Ile Asn
      260          265          270
Ser Val Phe Ser Gln Leu Ser Ala Gln Gly Ile Gln Val Leu Ser Met
      275          280          285
Arg Asn Lys Ala Asn Arg Leu Glu Glu Leu Phe Val Ser Leu Val His
      290          295          300
Asp Lys Gln Gly Asp Lys Ala

```

305

310

<210> 9643

<211> 156

<212> PRT

<213> *Enterobacter cloacae*

<400> 9643

```

Thr Thr Arg Leu Leu Arg Arg Asp Val Met Leu Gly Trp Val Ile Thr
1      5      10
Cys His Asp Glu Ala Gln Glu Met Leu Lys Leu Glu Ala Arg
20      25      30
Phe Gly Pro Leu Ala Gln Cys Arg Ala Val Asn Tyr Trp Arg Gly Leu
35      40      45
Ser Thr Asn Met Leu Ser Arg Met Met Cys Asp Ala Leu His Glu Thr
50      55      60
Asp Thr Gly Asp Gly Val Ile Phe Leu Thr Asp Lys Ser Gly Ala Ala
65      70      75      80
Pro Tyr Arg Ser Ala Ala Leu Met Ser His Lys His Asp Asn Cys Glu
85      90      95
Val Ile Ser Gly Ile Ser Leu Pro Leu Leu Glu Ala Met Tyr Pro Leu
100      105      110
Arg Ala Thr Leu Ser Ser Ala Glu Phe Arg His Ala Ile Val Ala Gln
115      120      125
Gly Ser Pro Gly Val Ser Ser Leu Trp His Gln Gln Lys Asn Pro
130      135      140
Pro Phe Val Leu Leu His Asp Leu Tyr Lys His
145      150      155

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<210> 9644

<211> 437

<212> PRT

<213> *Enterobacter cloacae*

<400> 9644

```

Thr Leu Val Leu Met Ser Leu Leu Leu Gln Trp Arg Leu Ile Phe Arg
1      5      10      15
Ile Asp Leu Tyr Pro Met Leu Met Arg Val Ile Phe Ile Leu Leu Val
20      25      30
Leu Val Ser Gly Gly Ala Ser Ala Ser Leu Thr Ser Gln Gln Gly Leu
35      40      45
Pro Ala Gln Tyr Met Gln Thr Thr Glu Asp Ala Ala Ile Trp Ala Gln
50      55      60
Val Gly Asn Ala Val Val Asn Val Gly Asn Val Arg Ala Gly Gln Ile
65      70      75      80
Leu Ala Val Phe Pro Ala Ala Ala Asp Tyr Tyr Glu Phe Arg Phe Gly
85      90      95
Phe Gly Thr Gly Phe Ile Asp Lys Asp His Leu Glu Lys Val Gln Gly
100      105      110
Lys Gln Arg Val Glu Asp Ser Leu Gly Asp Leu Asn Lys Pro Leu Ser
115      120      125
Asn Gln Asn Leu Ile Thr Trp Lys Asp Thr Pro Val Tyr Asn Ala Pro
130      135      140
Ser Ser Gly Ser Ala Pro Phe Gly Thr Leu Ser Ala Asn Leu Arg Tyr
145      150      155      160
Pro Ile Leu Asn Lys Leu Lys Asp Arg Leu Asn Gln Thr Trp Phe Gln
165      170      175
Ile Arg Ile Gly Asn Arg Leu Ala Trp Ile Ser Ser Leu Asp Ala Gln
180      185      190
Glu Asp Asn Gly Leu Pro Val Leu Thr Tyr His His Ile Leu Arg Asp
195      200      205

```


Glu Glu Asn Thr Arg Phe Arg His Thr Ser Thr Thr Thr Ser Val Arg
 210 215 220
 Ala Phe Asn Asn Gln Met Ala Trp Leu Arg Asp Gln Gly Tyr Thr Thr
 225 230 235
 Leu Thr Met Tyr Gln Leu Glu Gly Tyr Val Arg Asn Lys Met Asn Leu
 245 250 255
 Pro Ala Lys Ala Val Val Ile Thr Phe Asp Asp Gly Leu Lys Ser Val
 260 265 270
 Ser Arg Tyr Ala Tyr Pro Val Leu Lys Glu Tyr Gly Phe Asn Ala Thr
 275 280 285
 Ala Phe Ile Ile Ser Ser Arg Ile Lys Gly His Pro Gln Lys Trp Asp
 290 295 300
 Pro Lys Ser Leu Gln Phe Met Ser Val Gln Glu Ile Lys Gly Ile Gln
 305 310 315
 Asp Val Phe Asp Ile Gln Ser His Thr His Phe Leu His Arg Val Asp
 325 330 335
 Gly Tyr Lys His Pro Ile Leu Leu Ser Arg Ser Tyr His Val Ile Leu
 340 345 350
 Phe Asp Phe Glu Arg Ser Arg Arg Ala Leu Ala Gln Phe Asn Pro Arg
 355 360 365
 Val Leu Tyr Val Ser Tyr Pro Phe Gly Gly Tyr Asp Asn Lys Ala Ile
 370 375 380
 Lys Ala Ala Asn Asp Ala Gly Phe His Leu Ala Val Thr Thr Met Lys
 385 390 395
 Gly Lys Val Lys Pro Gly Asp Asn Pro Phe Leu Leu Lys Arg Leu Tyr
 405 410 415
 Ile Leu Arg Thr Asp Ser Leu Glu Thr Met Ser Arg Leu Ile Ser Asn
 420 425 430
 Gln Pro Gln Gly
 435

<210> 9645

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 9645

Gln Gly Gly Arg Asp Ser Arg Leu Ser Arg Val Val Arg Gly Gln Ala
 1 5 10 15
 Leu Ala Ser His Leu Phe Phe Ala Asp Phe Cys Gln Arg Phe Thr Val
 20 25 30
 Asp Ala Gln Ile Gly Cys Trp Thr Arg Phe Gln Ala Thr Asn Thr Asp
 35 40 45
 Phe Asn Thr Ala Gly Phe Ala Val Ala Lys Ile Phe Val Leu Asp Leu
 50 55 60
 Leu Gln Arg Phe Phe Asp Leu Phe Asp Gln Phe Ala Leu Ala Val Thr
 65 70 75 80
 Val Thr Gln Phe Glu Ala Glu Leu Phe Phe Leu Ser Gly Thr Val Asp
 85 90 95
 Arg Val Arg Glu Val Ser Ser Phe Val Leu His Met Cys Asn Gly Ala
 100 105 110
 Ile Asp Phe Ile Pro Glu Leu Ile Thr Pro Cys Phe Lys Asn Thr Leu
 115 120 125
 Glu Val Arg Gln Leu Gly Phe Val His Ile Leu Phe Ala Arg Leu Leu
 130 135 140
 Leu Ile Arg Leu His Pro Ser Asp Gly Glu Asn Thr Gln Gly Arg Cys
 145 150 155 160
 Phe Thr Val Leu Pro Phe Leu His Val Ala Ser Pro
 165 170

<210> 9646

<211> 643

<212> PRT

<213> *Enterobacter cloacae*

<400> 9646

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Pro Ala Ser Gly Val Arg Gly Lys Arg Ile Met Ala Ile Glu Ile Asn
1      5      10      15
Val Pro Asp Ile Gly Ala Asp Glu Val Glu Ile Thr Glu Ile Leu Val
20      25      30
Lys Val Gly Asp Lys Val Glu Ala Glu Gln Ser Leu Ile Thr Val Glu
35      40      45
Gly Asp Lys Ala Ser Met Glu Val Pro Ser Pro Gln Ala Gly Ile Val
50      55      60
Lys Glu Ile Lys Val Ser Val Gly Asp Lys Thr Glu Thr Gly Lys Leu
65      70      75      80
Ile Met Ile Phe Asp Ser Ala Asp Gly Ala Ala Ala Ala Pro Ala
85      90      95
Gln Glu Glu Lys Lys Glu Ala Ala Pro Ala Ala Pro Ala Ala Ala
100     105     110
Ala Ala Ala Lys Glu Val Asn Val Pro Asp Ile Gly Gly Asp Glu Val
115     120     125
Glu Val Thr Glu Ile Leu Val Lys Val Gly Asp Thr Val Ala Ala Glu
130     135     140
Gln Ser Leu Ile Thr Val Glu Gly Asp Lys Ala Ser Met Glu Val Pro
145     150     155     160
Ala Pro Phe Ala Gly Thr Val Lys Glu Ile Lys Ile Asn Thr Gly Asp
165     170     175
Lys Val Ser Thr Gly Ser Leu Ile Met Ile Phe Glu Val Ala Gly Ser
180     185     190
Glu Gly Ala Ala Ala Pro Ala Lys Ala Glu Ala Ala Pro Ala Pro Ala
195     200     205
Ala Ala Pro Ala Ala Ala Gly Gly Val Lys Asp Val Asn Val Pro Asp
210     215     220
Ile Gly Gly Asp Glu Val Glu Val Thr Glu Val Met Val Lys Val Gly
225     230     235     240
Asp Lys Val Ala Ala Glu Gln Ser Leu Ile Thr Val Glu Gly Asp Lys
245     250     255
Ala Ser Met Glu Val Pro Ala Pro Phe Ala Gly Thr Val Lys Glu Ile
260     265     270
Lys Ile Ser Thr Gly Asp Lys Val Ser Thr Gly Ser Leu Ile Met Val
275     280     285
Phe Glu Val Glu Gly Ala Ala Pro Ala Ala Ala Pro Ala Ala Ala
290     295     300
Ala Pro Ala Pro Ala Ala Ala Pro Ala Gln Ala Ala Lys Pro Ala Ala
305     310     315     320
Ala Pro Ala Ala Lys Ala Glu Lys Ser Glu Phe Ala Glu Asn Asp Ala
325     330     335
Tyr Val His Ala Thr Pro Leu Ile Arg Arg Leu Ala Arg Glu Phe Gly
340     345     350
Val Asn Leu Ala Lys Val Lys Gly Thr Gly Arg Lys Gly Arg Ile Leu
355     360     365
Arg Glu Asp Val Gln Ala Tyr Val Lys Asp Ala Val Lys Arg Ala Glu
370     375     380
Ala Ala Pro Ala Ala Ala Ala Gly Gly Gly Ile Pro Gly Met Leu Pro
385     390     395     400
Trp Pro Lys Val Asp Phe Ser Lys Phe Gly Glu Ile Glu Glu Val Glu
405     410     415
Leu Gly Arg Ile Gln Lys Ile Ser Gly Ala Asn Leu Ser Arg Asn Trp
420     425     430
Val Met Ile Pro His Val Thr His Phe Asp Lys Thr Asp Ile Thr Asp
435     440     445

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Leu Glu Ala Phe Arg Lys Gln Gln Asn Ala Glu Ala Glu Lys Arg Lys
 450 455
 Leu Asp Val Lys Phe Thr Pro Val Val Phe Ile Met Lys Ala Val Ala
 465 470
 Ala Ala Leu Glu Gln Met Pro Arg Phe Asn Ser Ser Leu Ser Glu Asp
 485 490
 Gly Gln Lys Leu Thr Leu Lys Lys Tyr Ile Asn Ile Gly Val Ala Val
 500 505
 Asp Thr Pro Asn Gly Leu Val Val Pro Val Phe Lys Asp Val Asn Lys
 515 520
 Lys Ser Val Thr Glu Leu Ser Arg Glu Leu Thr Thr Ile Ser Lys Lys
 530 535
 Ala Arg Asp Gly Lys Leu Thr Ala Gly Glu Met Gln Gly Gly Cys Phe
 545 550
 Thr Ile Ser Ser Ile Gly Gly Leu Gly Thr Thr His Phe Ala Pro Ile
 565 570
 Val Asn Ala Pro Glu Val Ala Ile Leu Gly Val Ser Lys Ser Ala Met
 580 585
 Glu Pro Val Trp Asn Gly Lys Glu Phe Val Pro Arg Leu Met Met Pro
 595 600
 Ile Ser Leu Ser Phe Asp His Arg Val Ile Asp Gly Ala Asp Gly Ala
 610 615
 Arg Phe Ile Thr Ile Ile Asn Asn Met Leu Ser Asp Ile Arg Arg Leu
 625 630 635 640
 Val Met

<210> 9647

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 9647

Gly His Gln Ala Ala Gly Ser Cys Ser His Leu Phe Ile Phe Ile Pro
 1 5 10 15
 Pro Thr Ser Pro Ala Phe Phe Leu Pro Arg Cys Cys Asp Asn Tyr Leu
 20 25 30
 Asn Gly Phe Ala Glu Glu Asn Ala Met Asp Tyr Glu Phe Leu Arg Asp
 35 40 45
 Ile Thr Gly Val Val Lys Val Arg Met Ser Met Gly His Glu Ala Val
 50 55 60
 Gly His Trp Phe Asn Glu Glu Val Lys Glu Asn Leu Ala Leu Leu Asp
 65 70 75 80
 Glu Val Glu Gln Ala Ala Glu Thr Val Lys Gly Ser Glu Arg Ser Trp
 85 90 95
 Gln Arg Ala Gly His Glu Tyr Thr Leu Trp Met Asp Gly Glu Glu Val
 100 105 110
 Met Val Arg Ala Asn Gln Leu Glu Leu Ser Gly Asp Glu Met Glu Glu
 115 120 125
 Gly Met Ser Tyr Tyr Asp Glu Glu Ser Leu Ser Leu Cys Gly Val Glu
 130 135 140
 Asp Phe Leu Ser Val Val Asn Ala Tyr Arg Asp Phe Met Lys Gln Lys
 145 150 155 160

<210> 9648

<211> 810

<212> PRT

<213> Enterobacter cloacae

<400> 9648

Val Ser Ser Leu Pro Val Ala Val Val Leu Pro Glu Leu Leu Ala Ala
 1 5 10 15
 Leu Glu His Ala Pro Gln Val Leu Ser Ala Pro Thr Gly Ala Gly
 20 25 30
 Lys Ser Thr Trp Leu Pro Leu Gln Ile Leu Arg Asp Gly Asn Ile Ser
 35 40 45
 Gly Lys Ile Ile Leu Leu Glu Pro Arg Arg Leu Ala Ala Arg Asn Val
 50 55 60
 Ala Gln Arg Leu Ala Glu Leu Leu Asn Glu Lys Pro Gly Glu Thr Val
 65 70 75 80
 Gly Tyr Arg Met Arg Ala Glu Thr Cys Val Gly Pro Ser Thr Arg Leu
 85 90 95
 Glu Val Val Thr Glu Gly Ile Leu Thr Arg Met Leu Gln Asn Asp Pro
 100 105 110
 Glu Leu Thr Gly Val Gly Leu Val Ile Leu Asp Glu Phe His Glu Arg
 115 120 125
 Ser Leu Gln Ala Asp Leu Ala Leu Ala Leu Leu Leu Asp Val Gln Gln
 130 135 140
 Gly Leu Arg Asp Asp Leu Arg Leu Leu Ile Met Ser Ala Thr Leu Asp
 145 150 155 160
 Asn Glu Arg Leu Arg Gln Thr Leu Pro Asp Ala Pro Met Ile Ser Ser
 165 170 175
 Glu Gly Arg Ala Phe Pro Val Glu Arg Arg Tyr Gln Pro Leu Pro Ala
 180 185 190
 His Gln Arg Phe Asp Glu Ala Val Ala Ile Ala Thr Ala Glu Leu Leu
 195 200 205
 Arg Gln Glu Pro Gly Ser Leu Leu Leu Phe Leu Pro Gly Val Gly Glu
 210 215 220
 Ile Gln Arg Val Gln Glu Gln Leu Ala Ser Arg Val Asp Ser Asp Val
 225 230 235 240
 Met Leu Cys Pro Leu Tyr Gly Ala Leu Pro Leu Ala Asp Gln Arg Lys
 245 250 255
 Ala Ile Leu Pro Ala Pro Ala Gly Gln Arg Lys Val Val Leu Ala Thr
 260 265 270
 Asn Ile Ala Glu Thr Ser Leu Thr Ile Glu Gly Ile Arg Leu Val Val
 275 280 285
 Asp Ser Thr Leu Glu Arg Val Ala Ser Phe Asp Pro Arg Ser Gly Leu
 290 295 300
 Thr Arg Leu Leu Thr Gln Arg Ile Ser Gln Ala Ser Met Val Gln Arg
 305 310 315 320
 Ala Gly Arg Ala Gly Arg Leu Glu Pro Gly Ile Cys Leu His Leu Thr
 325 330 335
 Ser Ala Glu Gln Ala Glu Arg Ala Ala Phe Gln Ser Thr Pro Glu Ile
 340 345 350
 Leu Gln Ser Asp Leu Ser Gly Leu Val Met Asp Met Met Gln Trp Gly
 355 360 365
 Cys Pro Asp Pro Asp Gln Leu Thr Trp Leu Asn Pro Pro Pro Val Val
 370 375 380
 Asn Leu Ser Ala Ala Arg Ser Leu Leu Thr Gln Leu Gly Ala Leu Glu
 385 390 395 400
 Gly Glu Arg Leu Thr Ala Arg Gly Gln Lys Met Ala Ala Leu Gly Asn
 405 410 415
 Asp Pro Arg Leu Ala Ala Met Leu Val Ala Ala Gln Gly Asp Asp Glu
 420 425 430
 Ile Ala Thr Ala Ala Lys Leu Ala Ala Ile Leu Glu Glu Pro Pro Arg
 435 440 445
 Gly Gly Gly Ser Asp Leu Gly Gln Ala Phe Ser Arg His Gln Gly Asn
 450 455 460
 Trp Gln Gln Arg Ala Gln Gln Leu Cys Lys Arg Leu Asn Cys Arg Gly
 465 470 475 480

Gly Ser Pro Asp Ser Asp Lys Val Ile Pro Leu Leu Ala Gln Ala Phe
 485 490 495
 Pro Asp Arg Ile Ala Arg Arg Arg Gly Leu Asp Gly Arg Tyr Gln Leu
 500 505 510
 Ala Asn Gly Met Gly Ala Met Leu Asp Ser Asp Asp Ala Leu Thr Arg
 515 520 525
 His Glu Trp Leu Ile Ala Pro Leu Leu Gln Gly Ser His Ser Pro
 530 535 540
 Asp Ala Arg Ile Leu Gln Ala Val Ala Val Asp Ile Asp Leu Leu Thr
 545 550 555 560
 Arg Ala Cys Pro Gln Leu Leu Gln Gln Ser Asp Ile Val Glu Trp Asp
 565 570 575
 Asp Thr Gln Gly Thr Leu Lys Ala Phe Arg Arg Ser Gln Ile Gly Lys
 580 585 590
 Leu Thr Leu Gly Thr Lys Pro Leu Ala Lys Pro Ser Glu Glu Glu Leu
 595 600 605
 His Gln Ala Met Leu Asn Gly Ile Arg Glu Lys Gly Leu Ser Val Leu
 610 615 620
 Asn Trp Thr Pro Glu Ala Glu Gln Tyr Arg Ile Arg Leu His Cys Ala
 625 630 635 640
 Ala Lys Trp Leu Pro Glu Gln Gly Trp Pro Ala Val Asp Asp Glu Thr
 645 650 655
 Leu Leu Ala Thr Leu Glu Gln Trp Leu Leu Pro Gln Met Ser Gly Val
 660 665 670
 His Ser Leu Arg Ala Leu Lys Ala Leu Asp Val Lys Ala Ala Leu Gln
 675 680 685
 Asn Leu Leu Asp Trp Ser Leu Arg Gln Arg Leu Asp Ser Glu Leu Pro
 690 695 700
 Gly His Tyr Thr Val Pro Thr Gly Ser Arg Ile Ala Ile Arg Tyr His
 705 710 715 720
 Glu Asp Asn Pro Pro Ala Leu Ala Val Arg Met Gln Glu Met Phe Gly
 725 730 735
 Glu Ala Thr Thr Pro Ser Ile Ala Glu Gly Arg Val Pro Leu Val Leu
 740 745 750
 Glu Leu Leu Ser Pro Ala His Arg Pro Leu Gln Ile Thr Arg Asp Leu
 755 760 765
 Gly Ala Phe Trp Ala Gly Ser Tyr Arg Glu Val Gln Lys Glu Met Lys
 770 775 780
 Gly Arg Tyr Pro Lys His Val Trp Pro Asp Asp Pro Ala Asn Thr Ala
 785 790 795 800
 Pro Thr Arg Arg Thr Lys Lys Tyr Ser
 805 810

<210> 9649

<211> 652

<212> PRT

<213> Enterobacter cloacae

<400> 9649

Met Leu Arg Arg Lys Ser Met Ala Gly Asn Asp Arg Glu Pro Ile Gly
 1 5 10 15
 Arg Lys Gly Lys Pro Thr Arg Pro Ala Lys Glu Lys Val Ser Arg Arg
 20 25 30
 Arg Leu Arg Asp Glu Glu Tyr Asp Asp Asp Tyr Glu Asp Asp Tyr Glu
 35 40 45
 Asp Glu Glu Pro Met Pro Arg Lys Gly Lys Gly Lys Gly Arg Lys Pro
 50 55 60
 Arg Gly Lys Arg Gly Trp Phe Trp Leu Leu Leu Lys Leu Phe Ile Val
 65 70 75 80
 Phe Val Val Leu Ile Ala Ile Tyr Gly Val Tyr Leu Asp Gln Lys Ile
 85 90 95

Arg Ser Arg Ile Asp Gly Lys Val Trp Gln Leu Pro Ala Ala Val Tyr
 100 105 110
 Gly Arg Met Val Asn Leu Glu Pro Asp Met Ser Ile Ser Lys Asn Glu
 115 120 125
 Met Val Lys Leu Leu Gln Ala Thr Gln Tyr Arg Gln Val Thr Lys Met
 130 135 140
 Thr Arg Pro Gly Glu Phe Thr Val Gln Ala Lys Ser Ile Glu Met Ile
 145 150 155 160
 Arg Arg Pro Phe Asp Phe Pro Asp Ser Lys Gly Gln Val Arg Ala
 165 170 175
 Arg Leu Thr Phe Asp Gly Asp Arg Leu Glu Thr Ile Glu Asn Met Asp
 180 185 190
 Asn Asp Arg Gln Phe Gly Phe Phe Arg Leu Asp Pro Arg Leu Ile Thr
 195 200 205
 Met Leu Ser Ser Ala Asn Gly Glu Gln Arg Leu Phe Val Ala Arg Asn
 210 215 220
 Gly Phe Pro Asp Leu Leu Val Asp Thr Leu Leu Ala Thr Glu Asp Arg
 225 230 235 240
 His Phe Tyr Glu His Asp Gly Ile Ser Leu Tyr Ser Ile Gly Arg Ala
 245 250 255
 Val Leu Ala Asn Leu Thr Ala Gly Arg Thr Val Gln Gly Ala Ser Thr
 260 265 270
 Leu Thr Gln Gln Leu Val Lys Asn Leu Phe Leu Ser Ser Glu Arg Ser
 275 280 285
 Tyr Trp Arg Lys Ala Asn Glu Ala Tyr Met Ala Val Leu Met Asp Ala
 290 295 300
 Arg Tyr Ser Lys Asp Arg Ile Leu Glu Leu Tyr Met Asn Glu Val Tyr
 305 310 315 320
 Leu Gly Gln Ser Gly Asp Asn Glu Ile Arg Gly Phe Pro Leu Ala Ser
 325 330 335
 Leu Tyr Tyr Phe Gly Arg Pro Val Glu Leu Ser Leu Asp Gln Gln
 340 345 350
 Ala Leu Leu Val Gly Met Val Lys Gly Ala Ser Ile Tyr Asn Pro Trp
 355 360 365
 Arg Asn Pro Lys Leu Ala Leu Glu Arg Arg Asn Leu Val Leu Arg Leu
 370 375 380
 Leu Gln Gln Gln Gln Val Ile Asp Gln Glu Leu Tyr Asp Met Leu Ser
 385 390 395 400
 Ala Arg Pro Leu Gly Val Gln Pro Arg Gly Gly Val Ile Ser Pro Gln
 405 410 415
 Pro Ala Phe Met Gln Met Val Arg Gln Glu Leu Gln Ser Lys Leu Gly
 420 425 430
 Asp Lys Val Lys Asp Leu Ser Gly Val Lys Ile Phe Thr Thr Phe Asp
 435 440 445
 Ser Val Ala Gln Asp Ala Ala Glu Lys Ala Ala Val Glu Gly Ile Pro
 450 455 460
 Ala Leu Lys Lys Gln Arg Lys Leu Ser Asp Leu Glu Thr Ala Met Val
 465 470 475 480
 Val Val Asp Arg Asn Thr Gly Glu Val Arg Ala Met Val Gly Gly Ala
 485 490 495
 Glu Pro Gln Tyr Ala Gly Tyr Asn Arg Ala Met Gln Ala Arg Arg Ser
 500 505 510
 Ile Gly Ser Leu Ala Lys Pro Ala Thr Tyr Leu Thr Ala Leu Ser Gln
 515 520 525
 Pro Asn Leu Tyr Arg Leu Asn Thr Trp Ile Ala Asp Ala Pro Ile Ser
 530 535 540
 Leu Arg Gln Pro Asn Gly Gln Val Trp Ser Pro Gln Asn Asp Asp Arg
 545 550 555 560
 Gln Phe Ser Gly Gln Val Met Leu Val Asp Ala Leu Thr Arg Ser Met
 565 570 575
 Asn Val Pro Thr Val Asn Leu Gly Met Ala Leu Gly Leu Pro Ala Ile

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      580                      585                      590
Thr Asp Thr Trp Gln Lys Leu Gly Val Pro Lys Asp Gln Leu His Pro
      595                      600                      605
Val Pro Ala Met Ile Leu Gly Ala Leu Asn Leu Thr Pro Ile Glu Val
      610                      615                      620
Ala Gln Ala Phe Gln Thr Ile Ala Ser Gly Gly Asn Arg Ala Arg Val
      625                      630                      635                      640
Gln Pro Arg Val Leu Ala Arg Ser Pro Arg Ser Ser
      645                      650

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<210> 9650

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 9650

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Gln Arg Ser Gln Pro Val Gly Cys Gln Arg Gly Ser Gly Arg Gly His
1                      5                      10                      15
Ser Val Arg Gly Asn Ser Val Trp Arg Leu Ala Ser Cys Arg Gln Tyr
      20                      25                      30
Gly His Lys Arg Arg Thr Ser Arg Trp Ala Ile Thr Ile Glu Ser Ala
      35                      40                      45
Glu Glu Ile Ile Gln Arg Ala Thr Pro Ile Cys Cys Ser Arg Thr Ser
      50                      55                      60
Val Ser Val Val Glu Leu Val Trp Arg Val Asp Ser Thr Arg Cys Pro
      65                      70                      75                      80
Val Cys Ala Ala Leu Met Ala Ile Ser Ala Val Ser Pro Ser Arg Ile
      85                      90                      95
Ser Pro Thr Ile Met Met Ser Gly Ser Cys Leu Ser Arg Ala Arg Ser
      100                      105                      110
Thr Leu Trp Lys Val Ser Pro Ala Arg Gly Leu Ile Cys Val Trp Phe
      115                      120                      125
Lys Pro Ala Ser Gly Ile Ser Thr Gly Ser Ser Thr Leu Gln Ile Leu
      130                      135                      140
Thr Ser Gly Val Phe Arg Ala Cys Asn Ala Leu Tyr Ser Val Thr Val
      145                      150                      155                      160
Phe Pro Leu Pro Val Gly Pro Val Thr Arg Ile Asn Pro
      165                      170

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<210> 9651

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 9651

```

Gly Asp Asn Met Thr Leu Phe Thr Met Leu Leu Val Met Ile Ala Glu
1                      5                      10                      15
Arg Leu Phe Lys Leu Gly Glu His Trp His Leu Asp His Arg Leu Glu
      20                      25                      30
Val Leu Phe Arg Arg Ile Arg His Phe Ser Met Leu Arg Thr Leu Leu
      35                      40                      45
Met Ala Ala Gly Val Met Ala Ile Thr Phe Leu Leu Leu Arg Ser Leu
      50                      55                      60
Tyr Gly Leu Phe Phe Asn Val Pro Leu Leu Val Val Trp Ile Leu Leu
      65                      70                      75                      80
Gly Val Leu Cys Ile Gly Ala Gly Lys Val Arg Leu His Tyr His Ala
      85                      90                      95
Tyr Leu Lys Ala Ala Ser Arg Asp Asp Ala His Ala Arg Gly Ala Met
      100                      105                      110
Ala Ser Glu Leu Thr Met Ile His Gly Val Pro Pro Asp Cys Asp Glu
      115                      120                      125

```

```

Arg Glu Phe Leu Arg Glu Leu Gln Asn Ala Leu Leu Trp Ile Asn Phe
130 135 140
Arg Tyr Tyr Leu Ala Pro Leu Phe Trp Phe Val Val Gly Gly Pro Trp
145 150 155
Gly Pro Val Leu Leu Met Gly Tyr Ala Phe Leu Arg Ala Trp Gln Thr
165 170 175
Trp Leu Ala Arg Tyr Leu Thr Pro His Glu Arg Leu Gln Ser Gly Ile
180 185 190
Asp Ala Ile Leu His Val Leu Asp Trp Leu Pro Val Arg Leu Val Gly
195 200 205
Val Val Tyr Ala Leu Ile Gly His Gly Glu Lys Ala Leu Pro Ala Trp
210 215 220
Phe Val Ser Leu Ala Asp Arg His Thr Ser Gln Tyr Gln Val Leu Thr
225 230 235
Arg Leu Ala Gln Phe Ser Leu Ala Arg Glu Pro His Thr Asp Lys Val
245 250 255
Ala Thr Pro Lys Ala Ala Val Ser Met Ala Lys Lys Thr Ser Phe Val
260 265 270
Val Val Val Ile Val Ala Leu Leu Thr Ile Tyr Gly Thr Leu Val
275 280 285

```

<210> 9652

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 9652

```

Leu Arg Ala Lys Arg Arg Lys Thr Gly Asn Met Ala Tyr Ser Lys Ile
1 5 10 15
Arg Gln Pro Lys Leu Ser Asp Val Ile Glu Gln Gln Leu Glu Phe Leu
20 25 30
Ile Leu Glu Gly Thr Leu Arg Pro Gly Glu Lys Leu Pro Pro Glu Arg
35 40 45
Glu Leu Ala Lys Gln Phe Asp Val Ser Arg Pro Ser Leu Arg Glu Ala
50 55 60
Ile Gln Arg Leu Glu Ala Lys Gly Leu Leu Leu Arg Arg Gln Gly Gly
65 70 75 80
Gly Thr Phe Val Gln Asn Ser Leu Trp Gln Ser Phe Ser Asp Pro Leu
85 90 95
Val Glu Leu Leu Ser Asp His Pro Glu Ser Gln Phe Asp Leu Leu Glu
100 105 110
Thr Arg His Ala Leu Glu Gly Ile Ala Ala Tyr Tyr Ala Ala Leu Arg
115 120 125
Ser Thr Asp Glu Asp Arg Val Arg Ile Arg Glu Leu His Gln Ala Ile
130 135 140
Glu Arg Ala Gln Gln Ser Gly Asp Leu Asp Ala Glu Ser Ser Ala Val
145 150 155
Val Gln Tyr Gln Ile Ala Val Thr Glu Ala Ala His Asn Val Val Leu
165 170 175
Leu His Leu Leu Arg Cys Met Glu Pro Met Leu Ala Gln Asn Val Arg
180 185 190
Gln Asn Phe Glu Leu Leu Tyr Ala Arg Arg Glu Met Leu Pro Leu Val
195 200 205
Ser Asn His Arg Thr Arg Val Phe Glu Ala Ile Met Ala Gly Glu Pro
210 215 220
Glu Gln Ala Arg Glu Ala Ser His Arg His Leu Ala Phe Ile Glu Glu
225 230 235
Ile Leu Leu Asp Arg Ser Arg Glu Gln Ser Arg Arg Glu Arg Ser Leu
245 250 255
Arg Arg Ile Gln Gln Arg Lys Asp
260 265

```


<210> 9653
 <211> 893
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9653

```

Ile Arg Asn Thr Pro Met Ser Glu Arg Leu Gln Asn Asp Val Asp Pro
1      5      10      15
Ile Glu Thr Arg Asp Trp Leu Gln Ala Ile Glu Ser Val Ile Arg Glu
      20      25      30
Glu Gly Val Glu Arg Ala Gln Tyr Leu Ile Asp Gln Leu Leu Ser Glu
      35      40      45
Ala Arg Lys Gly Gly Val Lys Val Ala Ser Gly Ala Gly Ala Ser Asn
      50      55      60
Tyr Val Asn Thr Ile Ala Val Glu Asp Glu Pro Glu Tyr Pro Gly Asn
65      70      75      80
Leu Asp Leu Glu Arg Arg Ile Arg Ser Ala Ile Arg Trp Asn Ala Ile
      85      90      95
Met Thr Val Leu Arg Ala Ser Lys Lys Asp Leu Glu Leu Gly Gly His
      100      105      110
Met Ala Ser Phe Gln Ser Ser Ala Thr Ile Tyr Glu Val Cys Phe Asn
      115      120      125
His Phe Phe Arg Ala Ala Asn Glu Lys Asp Gly Gly Asp Leu Val Tyr
      130      135      140
Phe Gln Gly His Ile Ser Pro Gly Ile Tyr Ala Arg Ala Phe Leu Glu
145      150      155      160
Gly Arg Leu Thr Glu Glu Gln Met Asn Asn Phe Arg Gln Glu Val His
      165      170      175
Gly Lys Gly Leu Ser Ser Tyr Pro His Pro Lys Leu Met Pro Glu Phe
      180      185      190
Trp Gln Phe Pro Thr Val Ser Met Gly Leu Gly Pro Ile Gly Ala Ile
      195      200      205
Tyr Gln Ala Lys Phe Leu Lys Tyr Leu Glu His Arg Gly Leu Lys Asp
210      215      220
Thr Ser Glu Gln Thr Val Tyr Ala Phe Leu Gly Asp Gly Glu Met Asp
225      230      235      240
Glu Pro Glu Ser Lys Gly Ala Ile Thr Ile Ala Thr Arg Glu Lys Leu
      245      250      255
Asp Asn Leu Cys Phe Ile Ile Asn Cys Asn Leu Gln Arg Leu Asp Gly
      260      265      270
Pro Val Thr Gly Asn Gly Lys Ile Ile Asn Glu Leu Glu Gly Ile Phe
      275      280      285
Ala Gly Ala Gly Trp Asn Val Ile Lys Val Met Trp Gly Gly Arg Trp
290      295      300
Asp Glu Leu Leu Arg Lys Asp Thr Ser Gly Lys Leu Ile Gln Leu Met
305      310      315      320
Asn Glu Thr Val Asp Gly Asp Tyr Gln Thr Phe Lys Ser Lys Asp Gly
      325      330      335
Ala Tyr Val Arg Glu His Phe Phe Gly Lys Tyr Pro Glu Thr Ala Ala
      340      345      350
Leu Val Ala Asp Trp Thr Asp Glu Gln Ile Trp Ala Leu Asn Arg Gly
      355      360      365
Gly His Asp Pro Lys Lys Val Tyr Ala Ala Leu Lys Lys Ala Arg Glu
      370      375      380
Thr Lys Gly Lys Ala Thr Val Ile Leu Ala His Thr Ile Lys Gly Tyr
385      390      395      400
Gly Met Gly Asp Thr Ala Glu Gly Lys Asn Ile Ala His Gln Val Lys
      405      410      415
Lys Met Asn Met Asp Gly Val Arg Tyr Ile Arg Asp Arg Phe Asn Val
420      425      430

```

Pro Val Thr Asp Glu Gln Val Glu Lys Leu Ser Tyr Ile Thr Phe Pro
 435 440 445
 Glu Gly Ser Glu Glu His Lys Tyr Leu His Glu Arg Arg Gln Ala Leu
 450 455 460
 Lys Gly Tyr Leu Pro Ala Arg Gln Pro Asn Phe Thr Glu Lys Leu Glu
 465 470 475 480
 Leu Pro Ala Leu Glu Asp Phe Ser Gln Leu Leu Glu Glu Gln Asn Lys
 485 490 495
 Glu Ile Ser Thr Thr Ile Ala Phe Val Arg Ala Leu Asn Val Met Leu
 500 505 510
 Lys Asn Lys Ser Ile Lys Asp Arg Leu Val Pro Ile Ile Ala Asp Glu
 515 520 525
 Ala Arg Thr Phe Gly Met Glu Gly Leu Phe Arg Gln Ile Gly Ile Tyr
 530 535 540
 Ser Pro Asn Gly Gln Gln Tyr Thr Pro Gln Asp Arg Glu Gln Val Ala
 545 550 555 560
 Tyr Tyr Lys Glu Asp Glu Lys Gly Gln Ile Leu Gln Glu Gly Ile Asn
 565 570 575
 Glu Leu Gly Ala Gly Ala Ser Trp Leu Ala Ala Ala Thr Ser Tyr Ser
 580 585 590
 Thr Asn Asn Leu Pro Met Ile Pro Phe Tyr Ile Tyr Tyr Ser Met Phe
 595 600 605
 Gly Phe Gln Arg Ile Gly Asp Leu Cys Trp Gln Ala Gly Asp Gln Gln
 610 615 620
 Ala Arg Gly Phe Leu Ile Gly Gly Thr Ser Gly Arg Thr Thr Leu Asn
 625 630 635 640
 Gly Glu Gly Leu Gln His Glu Asp Gly His Ser His Ile Gln Ser Leu
 645 650 655
 Thr Ile Pro Asn Cys Ile Ser Tyr Asp Pro Ser Tyr Ala Tyr Glu Val
 660 665 670
 Ala Val Ile Met His Asp Gly Leu Gln Arg Met Tyr Gly Glu Ala Gln
 675 680 685
 Glu Asn Ile Tyr Tyr Tyr Ile Thr Thr Leu Asn Glu Asn Tyr His Met
 690 695 700
 Pro Ala Met Pro Ala Gly Ala Glu Glu Gly Ile Arg Lys Gly Ile Tyr
 705 710 715 720
 Lys Leu Glu Thr Ile Glu Gly Ser Lys Gly Lys Val Gln Leu Leu Gly
 725 730 735
 Ser Gly Ser Ile Leu Arg His Val Arg Glu Ala Ala Gln Ile Leu Ala
 740 745 750
 Lys Asp Tyr Gly Val Gly Ser Asp Val Tyr Ser Val Thr Ser Phe Thr
 755 760 765
 Glu Leu Ala Arg Asp Gly Gln Asp Cys Glu Arg Trp Asn Met Leu His
 770 775 780
 Pro Met Glu Thr Pro Arg Val Pro Tyr Ile Ala Gln Val Met Asn Asp
 785 790 795 800
 Ala Pro Ala Val Ala Ser Thr Asp Tyr Met Lys Leu Phe Ala Glu Gln
 805 810 815
 Val Arg Thr Tyr Val Pro Ala Asp Asp Tyr Arg Val Leu Gly Thr Asp
 820 825 830
 Gly Phe Gly Arg Ser Asp Ser Arg Glu Asn Leu Arg His His Phe Glu
 835 840 845
 Val Asp Ala Ser Tyr Val Val Val Ala Ala Leu Gly Glu Leu Ala Lys
 850 855 860
 Arg Gly Glu Ile Asp Lys Lys Val Val Ala Asp Ala Ile Thr Lys Phe
 865 870 875 880
 Asn Ile Asp Ala Asp Lys Val Asn Pro Arg Leu Ala
 885 890

<210> 9654

<211> 478

<212> PRT

<213> *Enterobacter cloacae*

<400> 9654

Glu Val Met Met Ser Thr Glu Ile Lys Thr Gln Val Val Val Leu Gly
 1 5 10 15
 Ala Gly Pro Ala Gly Tyr Ser Ala Ala Phe Arg Ala Ala Asp Leu Gly
 20 25 30
 Leu Glu Thr Val Ile Val Glu Arg Tyr Ser Thr Leu Gly Gly Val Cys
 35 40 45
 Leu Asn Val Gly Cys Ile Pro Ser Lys Ala Leu Leu His Val Ala Lys
 50 55 60
 Val Ile Glu Glu Ala Lys Ala Leu Ala Glu His Gly Ile Val Phe Gly
 65 70 75 80
 Glu Pro Lys Thr Asp Ile Asp Lys Ile Arg Thr Trp Lys Glu Lys Val
 85 90 95
 Ile Thr Gln Leu Thr Gly Gly Leu Ala Gly Met Ala Lys Gly Arg Lys
 100 105 110
 Val Lys Val Val Asn Gly Leu Gly Lys Phe Thr Gly Ala Asn Thr Leu
 115 120 125
 Glu Val Glu Gly Glu Asn Gly Lys Thr Val Ile Asn Phe Asp Asn Ala
 130 135 140
 Ile Ile Ala Ala Gly Ser Arg Pro Ile Glu Leu Pro Phe Ile Pro His
 145 150 155 160
 Glu Asp Pro Arg Val Trp Asp Ser Thr Asp Ala Leu Glu Leu Lys Thr
 165 170 175
 Val Pro Lys Arg Leu Leu Val Met Gly Gly Gly Ile Ile Gly Leu Glu
 180 185 190
 Met Gly Thr Val Tyr His Ala Leu Gly Ser Glu Ile Asp Val Val Glu
 195 200 205
 Met Phe Asp Gln Val Ile Pro Ala Ala Asp Lys Asp Ile Val Lys Val
 210 215 220
 Phe Thr Lys Arg Ile Ser Lys Lys Phe Asn Leu Met Leu Glu Thr Lys
 225 230 235 240
 Val Thr Ala Val Glu Ala Lys Glu Asp Gly Ile Tyr Val Ser Met Glu
 245 250 255
 Gly Lys Lys Ala Pro Ser Glu Pro Gln Arg Tyr Asp Ala Val Leu Val
 260 265 270
 Ala Ile Gly Arg Val Pro Asn Gly Lys Asn Leu Asp Ala Gly Lys Ala
 275 280 285
 Gly Val Glu Val Asp Asp Arg Gly Phe Ile Arg Val Asp Lys Gln Leu
 290 295 300
 Arg Thr Asn Val Pro His Ile Phe Ala Ile Gly Asp Ile Val Gly Gln
 305 310 315 320
 Pro Met Leu Ala His Lys Gly Val His Glu Gly His Val Ala Ala Glu
 325 330 335
 Val Ile Ala Gly Met Lys His Tyr Phe Asp Pro Lys Val Ile Pro Ser
 340 345 350
 Ile Ala Tyr Thr Glu Pro Glu Val Ala Trp Val Gly Leu Thr Glu Lys
 355 360 365
 Glu Ala Lys Glu Lys Gly Ile Ser Tyr Glu Thr Ala Thr Phe Pro Trp
 370 375 380
 Ala Ala Ser Gly Arg Ala Ile Ala Ser Asp Cys Ala Asp Gly Met Thr
 385 390 395 400
 Lys Leu Ile Phe Asp Lys Glu Thr His Arg Val Ile Gly Gly Ala Ile
 405 410 415
 Val Gly Thr Asn Gly Gly Glu Leu Leu Gly Glu Ile Gly Leu Ala Ile
 420 425 430
 Glu Met Gly Cys Asp Ala Glu Asp Ile Ala Leu Thr Ile His Ala His
 435 440 445
 Pro Thr Leu His Glu Ser Val Gly Leu Ala Ala Glu Val Phe Glu Gly

450 455 460
 Ser Ile Thr Asp Leu Pro Asn Ala Lys Ala Lys Lys Lys
 465 470 475

<210> 9655
 <211> 149
 <212> PRT
 <213> Enterobacter cloacae

<400> 9655
 Asn His Ala Ala Gly Gly His Phe Asn Ile Arg Ala Glu Gly Thr Gln
 1 5 10 15
 Pro Ala Phe Arg Val Ala Phe Arg Val Gly Val His Ala Asp Val Ala
 20 25 30
 Phe Ile Gln Val Ser Asn His His Phe Arg Gln Arg Ala Gly Val Phe
 35 40 45
 Gly Phe Val Asp Lys Leu Trp Val Asn Arg Leu Phe Thr His Gln Asn
 50 55 60
 Gly Asp Ala Arg Thr Leu Arg Leu Ile Ile Leu Ala Arg Asp Ile Glu
 65 70 75 80
 Asp Val Arg Ala Asp Asn Arg Ala Gly Leu Cys Gln Asp Leu Gly Gln
 85 90 95
 Thr Val Gly Val Val Glu Phe Ile Asp Ile Gly Asp Val Thr Ile Ala
 100 105 110
 Leu Phe Cys Cys Phe Gly Val Ala Asp Ile Val Asn Thr Lys Thr Gln
 115 120 125
 Ala Phe Gly Gln Ile Val Lys Ala Met Gln Phe Lys Leu Phe Gln Leu
 130 135 140
 Val His Leu Leu
 145

<210> 9656
 <211> 588
 <212> PRT
 <213> Enterobacter cloacae

<400> 9656
 Leu Phe Ala His Ile Ala Ile Arg Leu Ala Asn Lys Ile Val Leu Lys
 1 5 10 15
 Asn Val Phe Ile Ala Phe Thr Thr Ala Ser Arg Lys Ile Asn Val Ser
 20 25 30
 Ile Leu Asp Ala Arg Pro Thr Ile Phe Ile Ile Ala Val Leu Asp
 35 40 45
 Leu Pro Val Arg Gly Gly Phe Met Leu Lys Arg Ser Pro Ala Gly Asn
 50 55 60
 Lys Glu Met His Met Gln Arg Arg Asp Phe Leu Lys Phe Ser Ala Ala
 65 70 75 80
 Leu Gly Val Ala Ser Ala Ile Pro Leu Trp Ser Arg Ala Val Phe Ala
 85 90 95
 Ala Asp Arg Pro Ala Leu Pro Ile Pro Glu Leu Leu Ala Pro Asp Ala
 100 105 110
 Arg Ser Arg Ile Gln Leu Val Val Gln Ala Gly Lys Thr Thr Phe Gly
 115 120 125
 Gln His Ala Ala Thr Thr Trp Gly Tyr Asn Gly Asn Leu Leu Gly Pro
 130 135 140
 Ala Leu Gln Leu Arg Lys Gly Lys Ala Val Thr Val Asp Ile His Asn
 145 150 155 160
 Thr Leu Ala Glu Glu Thr Thr Leu His Trp His Gly Leu Glu Val Pro
 165 170 175
 Gly Glu Val Asp Gly Gly Pro Gln Gly Val Ile Arg Pro Gly Gly Lys
 180 185 190

Arg Ser Val Thr Phe Thr Pro Glu Gln Arg Ala Ala Thr Cys Trp Phe
 195 200
 His Pro His Gln His Gly Lys Thr Gly His Gln Val Ala Met Gly Leu
 210 215 220
 Ala Gly Leu Val Leu Ile Glu Asp Asp Glu Ser Arg Leu Leu Arg Leu
 225 230 235 240
 Pro Lys Gln Trp Gly Ile Asp Asp Val Pro Val Ile Val Gln Asp Lys
 245 250 255
 Lys Phe Ser Ala Asp Gly Gln Ile Asp Tyr Gln Leu Asp Val Met Ser
 260 265 270
 Ala Ala Val Gly Trp Phe Gly Asp Thr Leu Leu Thr Asn Gly Ala Ile
 275 280 285
 Tyr Pro Gln His Ala Ala Pro Lys Gly Trp Leu Arg Leu Leu
 290 295 300
 Asn Gly Cys Asn Ala Arg Ser Leu Asn Phe Ala Thr Ser Asp Lys Arg
 305 310 315 320
 Pro Leu Tyr Val Val Ala Ser Asp Gly Gly Leu Leu Pro Glu Pro Val
 325 330 335
 Lys Val Ser Glu Leu Pro Met Leu Met Gly Glu Arg Phe Glu Val Leu
 340 345 350
 Val Asp Ile Ser Asp Gly Lys Ala Phe Asp Leu Val Thr Leu Pro Val
 355 360 365
 Ser Gln Met Gly Met Ala Val Ala Pro Phe Asp Lys Pro His Pro Val
 370 375 380
 Leu Arg Ile Gln Pro Leu Gln Ile Thr Ala Ser Gly Thr Leu Pro Glu
 385 390 395 400
 Thr Leu Thr Thr Leu Pro Ala Leu Pro Ser Leu Asp Gly Leu Thr Gln
 405 410 415
 Arg Lys Leu Gln Leu Ser Met Asp Pro Met Leu Asp Met Met Gly Met
 420 425 430
 Gln Ala Leu Met Lys Lys Tyr Gly Asn Gln Ala Met Ala Gly Met His
 435 440 445
 His Gly Gln Met Met Gly His Met Asn Met Asp His Gly Asn Met Gly
 450 455 460
 Gly Met Asn His Gly Gly His Gly Phe Asp Phe His Asn Ala Asn Arg
 465 470 475 480
 Ile Asn Gly Lys Ala Phe Asp Met Asn Thr Pro Met Phe Ala Ala Thr
 485 490 495
 Lys Gly Gln Phe Glu Arg Trp Met Ile Ser Gly Glu Gly Asp Met Met
 500 505 510
 Leu His Pro Phe His Ile His Gly Thr Gln Phe Arg Ile Leu Ser Glu
 515 520 525
 Asn Gly Lys Ala Pro Glu Pro His Arg Ala Gly Trp Lys Asp Thr Val
 530 535 540
 Arg Val Glu Gly Gly Val Ser Glu Val Leu Val Lys Phe Asp His Glu
 545 550 555 560
 Ala Pro Lys Glu Phe Ala Tyr Met Ala His Cys His Leu Leu Glu His
 565 570 575
 Glu Asp Thr Gly Met Met Leu Gly Phe Thr Val
 580 585

<210> 9657

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 9657

Gln Ser Lys Pro Thr Gly Arg Ala Val Cys Leu Ser Gly Ala Arg Gln
 1 5 10 15
 Thr Arg Arg Gln Gly Met Thr His Leu Tyr Trp Val Ala Leu Lys Ser
 20 25 30

```

Ile Trp Ala Lys Glu Ile Asn Arg Phe Met Arg Ile Trp Val Gln Thr
    35          40          45
Leu Val Pro Pro Val Ile Thr Met Thr Leu Tyr Phe Ile Ile Phe Gly
    50          55          60
Asn Leu Ile Gly Ser Arg Ile Gly Glu Met His Gly Phe Thr Tyr Met
    65          70          75          80
Gln Phe Ile Val Pro Gly Leu Ile Met Met Ala Val Ile Thr Asn Ala
    85          90          95
Tyr Ala Asn Val Ala Ser Ser Phe Phe Ser Ala Lys Phe Gln Arg Asn
    100         105         110
Ile Glu Glu Leu Leu Val Ala Pro Val Pro Thr His Val Ile Ile Ala
    115         120         125
Gly Tyr Val Gly Gly Gly Val Ala Arg Gly Leu Cys Val Gly Ile Leu
    130         135         140
Val Thr Ala Ile Ser Leu Phe Phe Val Pro Phe Gln Val His Ser Trp
    145         150         155         160
Leu Phe Val Ala Leu Thr Leu Leu Leu Thr Ala Ile Leu Phe Ser Leu
    165         170         175
Ala Gly Leu Leu Asn Ala Val Phe Ala Lys Thr Phe Asp Asp Ile Ser
    180         185         190
Leu Ile Pro Thr Phe Val Leu Thr Pro Leu Thr Tyr Leu Gly Gly Val
    195         200         205
Phe Tyr Ser Leu Thr Leu Leu Pro Pro Phe Trp Gln Ala Leu Ser His
    210         215         220
Leu Asn Pro Ile Val Tyr Met Ile Ser Gly Phe Arg Phe Gly Phe Leu
    225         230         235         240
Gly Ile Thr Asp Val Pro Leu Phe Thr Thr Val Val Val Leu Val Val
    245         250         255
Phe Ile Ile Ala Phe Tyr Leu Leu Cys Trp Tyr Leu Ile Gln Arg Gly
    260         265         270
Arg Gly Leu Arg Ser
    275

```

<210> 9658

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 9658

```

Asp Asp Met Lys Gln Ser Ile Val Lys Trp Leu Phe Glu Leu Asn Ala
    1          5          10          15
Lys Gln Arg Glu Val Leu Ala Arg Arg Phe Gly Leu Leu Gly Tyr Glu
    20          25          30
Ala Ala Thr Leu Glu Asp Val Gly Arg Glu Ile Gly Leu Thr Arg Glu
    35          40          45
Arg Val Arg Gln Ile Gln Val Glu Gly Leu Arg Arg Leu Arg Glu Ile
    50          55          60
Leu Gln Gly Gln Gly Leu Asn Ile Glu Ala Leu Phe Arg Glu
    65          70          75

```

<210> 9659

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 9659

```

Met Arg Leu Ile Val Gly Met Thr Gly Ala Thr Gly Ala Pro Leu Gly
    1          5          10          15
Val Ala Leu Leu Gln Ala Leu Arg Gly Met Pro Glu Val Glu Thr His
    20          25          30
Leu Val Met Ser Lys Trp Ala Lys Thr Thr Ile Glu Leu Glu Thr Pro

```

```

          35              40              45
Phe Thr Ala His Asp Val Ala Ala Leu Ala Asp Val Val His Ser Pro
  50              55              60
Ala Asp Gln Ala Ala Thr Ile Ser Ser Gly Ser Phe Arg Thr Asp Gly
  65              70              75              80
Met Ile Val Ile Pro Cys Ser Met Lys Thr Leu Ala Gly Ile Arg Ala
          85              90              95
Gly Tyr Ala Glu Gly Leu Val Gly Arg Ala Ala Asp Val Val Leu Lys
          100              105              110
Glu Gly Arg Lys Leu Val Leu Val Pro Arg Glu Thr Pro Leu Ser Thr
          115              120              125
Ile His Leu Glu Asn Met Leu Ala Leu Ser Arg Met Gly Val Ala Met
          130              135              140
Val Pro Pro Met Pro Ala Tyr Tyr Asn His Pro Gln Thr Ala Asp Asp
          145              150              155              160
Ile Thr Gln His Ile Val Thr Arg Val Leu Asp Gln Phe Gly Leu Glu
          165              170              175
His Lys Lys Ala Arg Arg Trp Glu Gly Leu Gln Ala Ala Lys His Phe
          180              185              190
Ser Gln Glu Asn Lys Asp Gly Ile
          195              200

```

<210> 9660

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 9660

```

Gly Gly Met Lys Met Ala Gly Lys Arg Ile Ala Arg Glu Lys Glu Thr
  1              5              10              15
Ile Ala Lys Met Ile Ala Leu Tyr Glu Lys Asn Cys Pro Gln Ala Val
          20              25              30
Lys Asp Glu Gly His Tyr Gln Ala Leu Asn Ala Tyr Ala Asp Lys Arg
          35              40              45
Leu Asp Lys Cys Ile Phe Gly Glu Glu Lys Pro Ala Cys Lys Gln Cys
          50              55              60
Pro Val His Cys Tyr Gln Pro Ala Arg Arg Glu Glu Met Lys Gln Val
          65              70              75              80
Met Arg Trp Ala Gly Pro Arg Met Leu Trp Arg His Pro Ile Leu Thr
          85              90              95
Leu Arg His Leu Ile Asp Asp Arg Arg Pro Val Pro Glu Leu Pro Glu
          100              105              110
Lys Tyr Arg Pro Lys Lys
          115

```

<210> 9661

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 9661

```

Phe Ala Leu Arg Arg Asp Asp Val Asn Ala Val Glu Met Thr Arg Arg
  1              5              10              15
His Arg Gly Gly Asp Ser Thr Ser Leu Val Lys Ser Tyr Leu Asn Gln
          20              25              30
Gln Ile Lys Asn Trp His Glu Asn Cys Leu Thr Ala Ala Asn Ser Ile
          35              40              45
Asn Arg Ile Pro Phe Met Thr Ile Trp Glu Ile Ser Glu Lys Ala Asp
          50              55              60
Tyr Ile Ala Gln Arg His Gln Gln Leu Gln Asp Gln Trp His Leu Tyr
          65              70              75              80

```

Cys Asn Ser Leu Ile Gln Gly Ile Thr Leu Ser Lys Ala Arg Leu His
 85 90 95
 His Ala Met Ser Cys Ala Ala Gln Gly Asp Met Arg Phe Val Leu Phe
 100 105 110
 Gly His Phe Thr Ile Phe Val Thr Leu Ala Glu Ser Phe Asn Ser His
 115 120 125
 Thr Ile Glu Tyr Tyr Val Glu Thr Lys Glu Gly Glu Lys Gln Cys Ile
 130 135 140
 Ala Lys Ala Gln Leu Met Ala Asp Gly Met Val Asp Gly His Val Ser
 145 150 155 160
 Asn Arg Asp Arg Gln Gln Val Leu Glu His Tyr Leu Glu Lys Ile Ala
 165 170 175
 Pro Val Tyr Asn Gly Leu Tyr Ala Ala Val Glu His Asp Gln Ser Ile
 180 185 190
 Asn Leu Lys Gln Leu Ile Asp Gly Lys Ser Ser Ala Asn Val Ala
 195 200 205

<210> 9662

<211> 609

<212> PRT

<213> Enterobacter cloacae

<400> 9662

Arg Gly Gly Glu Met Asn Ala Ile Val Met Thr Ser Gly Val Ala
 5 10 15
 Trp Phe Ala Ala Ala Val Leu Ala Leu Leu Leu Ala Phe His Lys
 20 25 30
 Thr Leu Ser Gly Val Ile Ala Gly Ile Gly Gly Ala Val Gly Ser Leu
 35 40 45
 Met Thr Leu Ala Ala Gly Gly Val Val Leu Ile Asp Gly Gln Ser Val
 50 55 60
 Asp Thr Leu Ile Pro Leu Ile His His Ala Val Glu Leu Thr Pro Leu
 65 70 75 80
 Asn Ala Ile Trp Leu Ile Thr Phe Gly Leu Cys Gly Leu Phe Ile Ser
 85 90 95
 Leu Phe Asn Ile Asp Trp His Arg His Gln His Thr Lys Ala Asn Gly
 100 105 110
 Leu Leu Val Asn Leu Leu Met Ala Ala Ala Val Cys Thr Val Val Ala
 115 120 125
 Ser Asn Leu Gly Ala Leu Val Val Met Ala Glu Ile Met Ala Leu Cys
 130 135 140
 Gly Val Phe Leu Thr Gly Cys Ser Ala Ser Gly Lys Leu Trp Phe Ala
 145 150 155 160
 Leu Gly Arg Leu Gly Thr Leu Leu Leu Ala Leu Ala Cys Trp Leu Val
 165 170 175
 Trp Gln Arg Phe Gly Thr Leu Asp Phe Ala Ala Leu Asn Gly Gln Pro
 180 185 190
 Leu Gly Asn Asp Val Trp Leu Leu Gly Val Val Gly Phe Gly Leu Leu
 195 200 205
 Ala Gly Ile Ile Pro Leu His Gly Trp Val Pro Gln Ala His Ala Asn
 210 215 220
 Ala Ser Ala Pro Ala Ala Ala Leu Phe Ser Thr Val Val Met Lys Val
 225 230 235
 Gly Leu Phe Gly Ile Leu Thr Ile Thr Leu Thr Gly Asp Gln Pro Pro
 245 250 255
 Leu Trp Trp Gly Val Ala Leu Leu Ile Ala Gly Met Ile Thr Ala Phe
 260 265 270
 Val Gly Gly Leu Tyr Ala Leu Met Glu His Asn Ile Gln Arg Leu Leu
 275 280 285
 Ala Tyr His Thr Leu Glu Asn Ile Gly Ile Ile Leu Leu Gly Met Gly
 290 295 300

Ala Gly Val Thr Gly Leu Ala Leu Asn Gln Pro Ala Leu Ile Ala Ala
 305 310 315 320
 Gly Phe Ile Gly Gly Leu Tyr His Leu Ile Asn His Ser Leu Phe Lys
 325 330 335
 Ser Thr Leu Phe Leu Gly Ala Gly Ser Val Trp Phe Arg Thr Gly His
 340 345 350
 Arg Asp Ile Glu Lys Leu Gly Gly Ile Gly Lys Lys Met Pro Val Ile
 355 360 365
 Ser Leu Ala Met Leu Val Gly Leu Met Ala Met Ala Ala Leu Pro Pro
 370 375 380
 Leu Asn Gly Phe Ala Gly Glu Trp Val Ile Tyr Gln Ser Phe Phe Ala
 385 390 395 400
 Leu Gly Gln Ser Glu Ala Phe Ile Gly Arg Leu Leu Gly Pro Leu Leu
 405 410 415
 Ala Val Gly Leu Ala Ile Thr Gly Ala Leu Ala Val Met Cys Met Ala
 420 425 430
 Lys Val Tyr Gly Val Thr Phe Leu Gly Ala Pro Arg Thr Arg Glu Ala
 435 440 445
 Glu Asn Ala Cys Cys Ala Pro Val Leu Met Thr Thr Ser Val Val Ala
 450 455 460
 Leu Ala Leu Cys Cys Ile Ala Gly Gly Val Ala Ala Pro Trp Leu Leu
 465 470 475 480
 Pro Leu Leu Gly His Ala Ile Pro Leu Pro Leu Val Thr Ala His Thr
 485 490 495
 Val Val Ser Gln Pro Met Met Ala Leu Leu Leu Ile Ala Ala Pro Leu
 500 505 510
 Leu Pro Phe Val Leu Met Leu Phe Phe Arg Arg Asp Arg Leu Ala Ser
 515 520 525
 Arg Ser Arg Gly Ala Ala Trp Ala Cys Gly Tyr Glu His Glu Gln Ser
 530 535 540
 Met Val Ile Thr Ala His Gly Phe Ala Met Pro Val Lys Glu Asn Phe
 545 550 555 560
 Ala Ala Val Leu Lys Leu Arg His Trp Leu Asn Pro Val Gly Trp Val
 565 570 575
 Pro Gly Trp Gln Gly Ala Ala Val Pro Val Leu Phe Arg Arg Leu Ala
 580 585 590
 Leu Ile Glu Leu Ala Val Leu Val Val Ile Val Ile Ser Arg Gly Ala
 595 600 605

<210> 9663

<211> 269

<212> PRT

<213> *Enterobacter cloacae*

<400> 9663

Pro His Arg Phe Asn Pro Pro Tyr Glu Arg Gly Gln Leu Met Glu Asn
 1 5 10 15
 Leu Leu Gly Pro Arg Asp Ala Asn Gly Ile Pro Val Pro Leu Thr Val
 20 25 30
 Glu Glu Ser Ile Ala Ser Met Lys Ala Ser Leu Leu Lys Lys Ile Lys
 35 40 45
 Arg Ser Ala Tyr Val Tyr Arg Val Asp Cys Gly Gly Cys Asn Gly Cys
 50 55 60
 Glu Ile Glu Ile Phe Ala Thr Leu Ser Pro Leu Phe Asp Ala Glu Arg
 65 70 75 80
 Phe Gly Ile Lys Val Val Pro Ser Pro Arg His Ala Asp Ile Leu Leu
 85 90 95
 Phe Thr Gly Ala Val Thr Arg Ala Met Arg Ser Pro Ala Leu Arg Ala
 100 105 110

Trp Gln Ser Ala Pro Asp Pro Lys Ile Cys Ile Ser Tyr Gly Ala Cys
 115 120 125
 Gly Asn Ser Gly Gly Ile Phe His Asp Leu Tyr Cys Val Trp Gly Gly
 130 135 140
 Thr Asp Lys Ile Val Pro Val Asp Val Tyr Ile Pro Gly Cys Pro Pro
 145 150 155 160
 Thr Pro Ala Ala Thr Leu Tyr Gly Phe Ala Met Ala Leu Gly Leu Leu
 165 170 175
 Glu Gln Lys Ile His Ala Arg Glu Pro Gly Glu Leu Asp Asn Gln Pro
 180 185 190
 Ala Thr Ile Leu His Pro Asp Met Val Gln Pro Leu Arg Val Lys Ile
 195 200 205
 Asp Arg Thr Ala Arg Arg Leu Ala Gly Tyr Arg Tyr Gly Arg Gln Ile
 210 215 220
 Ala Asp Asp Tyr Leu Arg Leu Leu Ser Gln Gly Asp His Gln Val Ala
 225 230 235 240
 Arg Trp Leu Glu Ala Glu Lys Asp Pro Arg Leu Asn Glu Ile Val Ala
 245 250 255
 Asn Leu Asn Asn Ile Val Asp Glu Ala Arg Ile Arg
 260 265

<210> 9664

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 9664

Gly Asp Tyr Val Thr Asp Val Leu Leu Cys Val Gly Asn Ser Met Met
 1 5 10 15
 Gly Asp Asp Gly Ala Gly Pro Leu Leu Ala Glu Leu Cys Ala Ala Asn
 20 25 30
 Ser Pro Gly Asn Trp Val Val Ile Asp Gly Gly Ser Ala Pro Glu Asn
 35 40 45
 Asp Val Val Ala Ile Arg Glu Leu His Pro Asp Arg Leu Leu Ile Val
 50 55 60
 Asp Ala Thr Asp Met Gly Leu Asn Pro Gly Glu Ile Arg Leu Ile Asp
 65 70 75 80
 Pro Asp Asp Ile Ala Glu Met Phe Met Met Thr Thr His Asn Met Pro
 85 90 95
 Leu Asn Tyr Leu Val Asp Gln Ile Lys Gly Asp Val Gly Glu Val Leu
 100 105 110
 Phe Leu Gly Ile Gln Pro Asp Ile Val Gly Phe Tyr Tyr Pro Met Thr
 115 120 125
 Pro Pro Val Lys Glu Ala Val Asp Val Val Tyr Ser Arg Leu Ala Gly
 130 135 140
 Trp Val Gly Asp Gly Gly Phe Ser Pro Leu
 145 150 155

<210> 9665

<211> 371

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (371)

<400> 9665

Phe Leu Val Glu Lys Gly Thr Asp Leu Arg Trp Gly Gly Ala Asn Arg
 1 5 10 15
 Phe Leu Glu Glu Leu Gly Met Leu Tyr His Thr Gly Phe Leu Pro Asn

20 25 30
 Ser Leu Asn Gly Cys His Met Phe Lys Arg Arg Tyr Ala Ala Leu Leu
 35 40 45
 Pro Ala Leu Ile Leu Leu Ser Ala Cys Ser Ser Lys Pro Lys Thr Glu
 50 55 60
 Ala Val Gln Pro Thr Ala Gly Ala Pro Ser Gly Gly Phe Leu Leu Glu
 65 70 75 80
 Pro Gln His Asn Met Met Gln Met Gly Gly Asp Phe Ala Asn Asn Pro
 85 90 95
 Ala Ala Glu Gln Phe Ile Asp Lys Met Val Ser Lys His Gly Phe Asp
 100 105 110
 Arg Gln Gln Leu His Ala Ile Leu Ser Gln Ala Lys Arg Leu Asp Tyr
 115 120 125
 Val Leu Arg Leu Met Asp Arg Gln Ala Pro Thr Ala Gln Val Pro Thr
 130 135 140
 Gly Pro Asn Gly Ala Trp Leu Arg Tyr Arg Lys Gln Phe Ile Thr Pro
 145 150 155 160
 Asp Asn Val Gln Asn Gly Val Val Phe Trp Asn Gln Tyr Glu Asp Ala
 165 170 175
 Leu Asn Arg Ala Trp Gln Val Tyr Gly Val Pro Pro Glu Ile Ile Val
 180 185 190
 Gly Ile Ile Gly Val Glu Thr Arg Trp Gly Arg Ile Met Gly Lys Thr
 195 200 205
 Arg Ile Leu Asp Ala Leu Ala Thr Leu Ser Phe Asn Tyr Pro Arg Arg
 210 215 220
 Ala Glu Tyr Phe Ser Ser Glu Leu Glu Thr Phe Leu Leu Met Ala Arg
 225 230 235 240
 Asp Glu Gln Asp Asp Pro Leu Asp Leu Lys Gly Ser Phe Ala Gly Ala
 245 250 255
 Met Gly Tyr Gly Gln Phe Met Pro Ser Ser Tyr Lys Gln Tyr Ala Val
 260 265 270
 Asp Phe Asn Gly Asp Gly His Ile Asn Leu Trp Asp Pro Glu Asp Ala
 275 280 285
 Ile Gly Ser Val Ala Asn Tyr Phe Lys Ala His Gly Trp Thr Pro Gly
 290 295 300
 Gly Gln Val Ala Val Gln Ala Asn Gly Glu Ala Phe Gly Leu Glu Asn
 305 310 315 320
 Gly Phe Lys Thr Lys Tyr Ser Val Ala Gln Leu Ala Ala Ala Gly Leu
 325 330 335
 Thr Pro Ser Gln Pro Leu Gly Asn Val Asp Gln Val Ser Leu Leu Arg
 340 345 350
 Leu Asp Gly Leu His His Gly Ala Arg Arg Ser Arg Ala Lys Arg Ile
 355 360 365
 Lys Glu Xaa
 370

<210> 9666

<211> 507

<212> PRT

<213> Enterobacter cloacae

<400> 9666

Pro Val Phe Ser Thr Ser Leu Val Trp Ser Ile Lys Lys Pro Asp Ala
 1 5 10 15
 Gly Lys Val Cys Arg Gln Arg Asn Ile Phe His Arg Arg Ile Lys Met
 20 25 30
 Ala Phe Asp Asp Leu Arg Ser Phe Leu Gln Ala Leu Asp Glu Gln Gly
 35 40 45
 Gln Leu Leu Lys Ile Glu Glu Val Asn Ala Glu Pro Asp Leu Ala
 50 55 60
 Ala Ala Ala Asn Ala Thr Gly Arg Ile Gly Asp Gly Ala Pro Ala Leu

65				70				75				80
Trp	Phe	Asp	Asn	Ile	Arg	Gly	Phe	Thr	Asp	Ala	Arg	Val
			85						90			Met
Thr	Ile	Gly	Ser	Trp	Gln	Asn	His	Ala	Ile	Ser	Met	Gly
			100					105				Leu
Asn	Thr	Pro	Val	Lys	Lys	Gln	Ile	Asp	Glu	Phe	Ile	Arg
			115				120					Arg
Lys	Phe	Pro	Val	Ser	Pro	Glu	Arg	Arg	Ala	Asn	Pro	Ala
			130				135				140	Trp
Asn	Thr	Val	Asp	Gly	Glu	Asp	Ile	Asn	Leu	Phe	Asp	Ile
			145				150				155	Leu
Phe	Arg	Leu	Asn	Asp	Gly	Asp	Gly	Gly	Phe	Tyr	Leu	Asp
			165						170			Lys
Val	Val	Ser	Arg	Asp	Pro	Leu	Asp	Pro	Asp	His	Phe	Gly
			180						185			Lys
Val	Gly	Ile	Tyr	Arg	Met	Glu	Val	Lys	Gly	Lys	Arg	Lys
			195				200					Leu
Gln	Pro	Val	Pro	Met	His	Asp	Ile	Ala	Leu	His	Leu	His
			210				215					Lys
Glu	Arg	Gly	Glu	Asp	Leu	Pro	Ile	Ala	Ile	Thr	Leu	Gly
			225				230				235	Asn
Ile	Ile	Thr	Leu	Met	Gly	Ala	Thr	Pro	Leu	Lys	Tyr	Asp
			245						250			Gln
Tyr	Glu	Met	Ala	Gly	Ala	Leu	Arg	Glu	Ser	Pro	Tyr	Pro
			260						265			Ile
Ala	Pro	Leu	Thr	Gly	Phe	Asp	Val	Pro	Trp	Gly	Ser	Glu
			275				280					Val
Glu	Gly	Val	Ile	Glu	Gly	Arg	Lys	Arg	Glu	Ile	Glu	Gly
			290				295				300	Pro
Glu	Phe	Thr	Gly	His	Tyr	Ser	Gly	Gly	Arg	Asn	Met	Thr
			305				310				315	Val
Ile	Asp	Lys	Val	Ser	Tyr	Arg	Thr	Lys	Pro	Ile	Phe	Glu
			325						330			Ser
Leu	Gly	Met	Pro	Trp	Thr	Glu	Ile	Asp	Tyr	Leu	Met	Gly
			340						345			Pro
Cys	Val	Pro	Leu	Tyr	Gln	Gln	Leu	Lys	Ser	Glu	Phe	Pro
			355				360					Glu
Ala	Val	Asn	Ala	Met	Tyr	Thr	His	Gly	Leu	Leu	Ala	Ile
			370				375				380	Ser
Lys	Lys	Arg	Tyr	Gly	Gly	Phe	Ala	Arg	Ala	Val	Gly	Leu
			385				390				395	Arg
Thr	Thr	Pro	His	Gly	Leu	Gly	Tyr	Val	Lys	Met	Val	Ile
			405						410			Met
Glu	Asp	Val	Asp	Pro	Phe	Asn	Leu	Pro	Gln	Val	Met	Trp
			420						425			Ala
Ser	Lys	Val	Asn	Pro	Ala	Gly	Asp	Leu	Val	Gln	Leu	Pro
			435				440					Asn
Val	Leu	Glu	Leu	Asp	Pro	Gly	Ser	Ser	Pro	Ala	Gly	Ile
			450				455				460	Thr
Leu	Ile	Ile	Asp	Ala	Thr	Thr	Pro	Val	Ala	Pro	Asp	Asn
			465				470				475	Arg
Tyr	Ser	Gln	Pro	Val	Gln	Asp	Leu	Pro	Glu	Thr	Lys	Ala
			485						490			Trp
Lys	Leu	Thr	Ala	Met	Leu	Ala	Ala	Arg	Gln			Ala
			500						505			Glu

<210> 9667

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 9667

Arg Thr Ser Leu Met Thr Lys Lys Ala Thr Val Leu Leu Phe Leu Val
 1 5 10 15
 Phe Phe Leu Ala Gly Ala Leu Ala Ala Trp Leu Tyr Arg Leu His Gln
 20 25 30
 Gln Asn Ser Glu Asn Thr Glu Ala Cys Ser Ala Ser Ile Val Val Tyr
 35 40 45
 His Glu Asp Ile Arg Ala Asn Leu Thr Met Asp Phe Met Tyr Thr Met
 50 55 60
 Lys Lys Gln Thr Gly Val Ile Ala Leu Ser Gly Ala Tyr Tyr Lys Asn
 65 70 75 80
 Asp Lys Leu Ala Gly Val Ile Arg Arg Asp Val Ser Tyr Val Trp Thr
 85 90 95
 Glu Asn Lys Asp Ser Phe His Phe Thr Ser Val Asn Ile His Asp Ile
 100 105 110
 Asn Gly Gln Gln Thr Ala Pro Asn Glu Ile Met Asn Glu Ile Leu Pro
 115 120 125
 Asp Phe Phe Leu Tyr Pro Lys Lys Asn Leu Asn Tyr Ser Ile Thr Gln
 130 135 140
 Gln Gly Pro Arg Gly Phe Met Phe Ser Val Gly Lys Arg Pro Ile Phe
 145 150 155 160
 Tyr Cys Ser Arg
 165

<210> 9668

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 9668

Pro Ser Pro Glu Asp Asp Pro Val Asn Arg Phe Val Ile Ala Asp Ser
 1 5 10 15
 Thr Val Cys Ile Gly Cys Arg Thr Cys Glu Ala Ala Cys Ser Glu Thr
 20 25 30
 His Arg Leu His Gly Leu Gln Ser Met Pro Arg Leu Arg Val Met Arg
 35 40 45
 Asn Glu Lys Glu Ser Ala Pro Gln Leu Cys His His Cys Glu Asp Ala
 50 55 60
 Pro Cys Ala Gly Val Cys Pro Val Asn Ala Ile Thr Arg Val Asp Gly
 65 70 75 80
 Ala Val Gln Leu Asn Glu Ser Leu Cys Val Ser Cys Lys Leu Cys Gly
 85 90 95
 Ile Ala Cys Pro Phe Gly Ala Ile Glu Phe Ser Gly Ser Arg Pro Leu
 100 105 110
 His Ile Pro Ala Asn Ala Asn Thr Pro Lys Ala Pro Pro Ala Pro Pro
 115 120 125
 Ala Pro Ala Arg Val Ser Thr Leu Leu Asp Trp Val Pro Gly Ile Arg
 130 135 140
 Ala Val Ala Val Lys Cys Asp Leu Cys Ser Phe Asp Glu Gln Gly Pro
 145 150 155 160
 Ala Cys Val Arg Thr Cys Pro Thr Arg Ala Leu Val Leu Val Asn Ile
 165 170 175
 Arg Asp Ile Ala Arg Thr Ser Lys Arg Lys Arg Glu Leu Thr Ile Asn
 180 185 190
 Thr Asp Val Gly Asp Leu Ser Leu Leu Arg Ala Leu Asn Glu Gly Ala
 195 200 205
 Lys

210

<210> 9669

<211> 316

<212> PRT

<213> *Enterobacter cloacae*

<400> 9669

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Leu Ser Phe His Glu Glu Pro Asp Met Ser Leu Leu Leu Ala Ile Leu
1      5      10      15
Gln Ala Leu Val Leu Phe Ala Ala Ala Pro Leu Leu Ser Gly Ile Thr
20      25      30
Arg Val Ala Arg Ala Arg Leu His Asn Arg Arg Gly Pro Gly Val Leu
35      40      45
Gln Glu Tyr Arg Asp Leu Phe Lys Leu Leu Ser Arg Gln Ser Val Ala
50      55      60
Pro Asp Ala Ala Gly Trp Val Phe Arg Leu Thr Pro Phe Val Met Val
65      70      75      80
Gly Val Met Leu Thr Ile Ala Thr Ala Leu Pro Val Val Thr Val Ala
85      90      95
Ser Pro Leu Pro Val Leu Gly Asp Leu Ile Thr Leu Ile Tyr Leu Phe
100      105      110
Ala Ile Ala Arg Phe Phe Phe Ala Ile Ala Gly Leu Asp Thr Gly Ser
115      120      125
Pro Phe Thr Gly Ile Gly Ala Ser Arg Glu Ala Met Leu Gly Val Leu
130      135      140
Val Glu Pro Ile Leu Leu Leu Gly Leu Trp Val Ala Ala Gln Val Ala
145      150      155      160
Gly Ser Thr His Ile Ser Phe Ile Thr Asp Thr Val Tyr His Trp Pro
165      170      175
Val Ser Arg Ser Leu Pro Leu Val Leu Ala Leu Cys Ala Cys Ala Phe
180      185      190
Ala Thr Phe Ile Glu Met Gly Lys Leu Pro Phe Asp Leu Ala Glu Ala
195      200      205
Gln Gln Glu Leu Gln Glu Gly Pro Leu Thr Glu Tyr Ser Gly Tyr Gly
210      215      220
Phe Ala Val Leu Lys Trp Gly Ile Ser Leu Lys Gln Leu Val Val Leu
225      230      235      240
Gln Met Phe Val Gly Val Phe Phe Pro Trp Gly Gln Met Thr His Phe
245      250      255
Ser Ala Gly Gly Leu Leu Leu Ala Val Val Val Ala Val Leu Lys Leu
260      265      270
Leu Ile Gly Val Leu Val Ile Ala Leu Phe Glu Asn Ser Met Ala Arg
275      280      285
Leu Arg Phe Val Glu Thr Ser Arg Ile Thr Trp Ala Gly Phe Gly Phe
290      295      300
Ala Phe Leu Ala Phe Val Ser Leu Leu Val Ala
305      310      315

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<210> 9670

<211> 575

<212> PRT

<213> *Enterobacter cloacae*

<400> 9670

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Leu Lys Arg Val Phe Met Ser Glu Glu Lys Lys Gly Gln Gln Tyr Leu
1      5      10      15
Ala Ala Leu His Gln Ala Phe Pro Gly Val Val Leu Glu Glu Ser Trp
20      25      30
Gln Thr Lys Asp Gln Ile Thr Val Thr Ile Lys Val Asn Tyr Leu Pro
35      40      45
Glu Val Val Glu Phe Leu Tyr Tyr Gln Gln Gly Gly Trp Leu Ser Val
50      55      60
Leu Phe Gly Asn Asp Glu Arg Gln Leu Cys Gly Ser Tyr Ala Val Tyr
65      70      75      80

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Tyr Val Met Ser Met Glu Gln Gly Glu Lys Cys Trp Ile Thr Val Arg
 85 90 95
 Val Glu Val Asp Pro Asn Lys Pro Glu Tyr Pro Ser Val Thr Pro Arg
 100 105 110
 Val Pro Ala Ala Val Trp Gly Glu Arg Glu Val Arg Asp Met Tyr Gly
 115 120 125
 Leu Val Pro Val Gly Leu Pro Asp Glu Arg Arg Leu Val Leu Pro Asp
 130 135 140
 Asp Trp Pro Asp Glu Leu Tyr Pro Leu Arg Lys Asp Ser Met Asp Tyr
 145 150 155 160
 Arg Gln Arg Pro Ala Pro Thr Thr Asp Ser Glu Thr Tyr Glu Phe Ile
 165 170 175
 Asn Glu Leu Gly Ser Lys Lys Asn Asn Val Val Pro Ile Gly Pro Leu
 180 185 190
 His Val Thr Ser Asp Glu Pro Gly His Phe Arg Leu Phe Val Asp Gly
 195 200 205
 Glu Asn Ile Ile Asp Ala Asp Tyr Arg Leu Phe Tyr Val His Arg Gly
 210 215 220
 Met Glu Lys Leu Ala Glu Thr Arg Met Gly Tyr Asn Glu Val Thr Phe
 225 230 235 240
 Leu Ser Asp Arg Val Cys Gly Ile Cys Gly Phe Ala His Ser Thr Ala
 245 250 255
 Tyr Thr Thr Ser Val Glu Asn Gly Met Gly Ile Val Val Pro Glu Arg
 260 265 270
 Ala Gln Met Ile Arg Ala Ile Leu Leu Glu Val Glu Arg Leu His Ser
 275 280 285
 His Leu Leu Asn Leu Gly Leu Ala Cys His Phe Val Gly Phe Asp Ser
 290 295 300
 Gly Phe Met Gln Phe Phe Arg Val Arg Glu Ala Ser Met Lys Met Ala
 305 310 315 320
 Glu Ile Leu Thr Gly Ala Arg Lys Thr Tyr Gly Leu Asn Leu Ile Gly
 325 330 335
 Gly Ile Arg Arg Asp Leu Leu Lys Asp Asp Met Ile Gln Thr Arg Gln
 340 345 350
 Leu Ala Gln Gln Met Arg Arg Asp Val Gln Glu Leu Val Asp Met Leu
 355 360 365
 Leu Ser Thr Pro Asn Ile Glu Gln Arg Thr Val Gly Ile Gly Arg Leu
 370 375 380
 Asp Pro Glu Ile Ala Arg Asp Phe Ser Asn Val Gly Pro Met Val Arg
 385 390 395 400
 Ala Ser Gly His Ala Arg Asp Thr Arg Ala Asp His Pro Phe Val Gly
 405 410 415
 Tyr Gly Leu Leu Pro Met Thr Val His Ser Glu Gln Gly Cys Asp Val
 420 425 430
 Ile Ser Arg Leu Lys Val Arg Ile Asn Glu Val Phe Thr Ala Leu Asn
 435 440 445
 Met Ile Asp Tyr Gly Leu Asp Asn Leu Pro Gly Gly Pro Leu Met Val
 450 455 460
 Glu Gly Phe Thr Tyr Ile Pro Asn Arg Phe Ala Leu Gly Phe Ala Glu
 465 470 475 480
 Ala Pro Arg Gly Asp Asp Ile His Trp Ser Met Thr Gly Asp Asn Gln
 485 490 495
 Lys Leu Tyr Arg Trp Arg Cys Arg Ala Ala Thr Tyr Ala Asn Trp Pro
 500 505 510
 Thr Leu Arg Tyr Met Leu Arg Gly Asn Thr Val Ser Asp Ala Pro Leu
 515 520 525
 Ile Ile Gly Ser Leu Asp Pro Cys Tyr Ser Cys Thr Asp Arg Met Thr
 530 535 540
 Val Val Asp Val Arg Lys Lys Lys Ser Gln Val Val Pro Tyr Lys Glu
 545 550 555 560
 Leu Glu Arg Tyr Ser Ile Glu Arg Lys Asn Ser Pro Leu Lys

<210> 9671
 <211> 184
 <212> PRT
 <213> Enterobacter cloacae

<400> 9671
 Gly Phe Ala Met Phe Thr Phe Ile Lys Lys Val Ile Lys Thr Gly Ala
 1 5 10 15
 Gln Thr Ser Ser Tyr Pro Leu Glu Pro Ile Pro Val Asp Lys Asn Phe
 20 25 30
 Arg Gly Lys Pro Glu His Asn Pro Gln Gln Cys Ile Gly Cys Ala Ala
 35 40 45
 Cys Val Asn Ala Cys Pro Ser Asn Ala Leu Thr Val Glu Thr Asp Leu
 50 55 60
 Lys Thr Gly Glu Leu Ala Trp Gln Phe Asn Leu Gly Arg Cys Ile Phe
 65 70 75 80
 Cys Gly Arg Cys Glu Glu Val Cys Pro Thr Val Ala Ile Arg Leu Ser
 85 90 95
 Gln Glu Tyr Glu Leu Ala Val Trp Lys Lys Glu Asp Phe Leu Gln Gln
 100 105 110
 Ser Arg Phe Ala Leu Cys Asn Cys Arg Val Cys Lys Arg Pro Phe Ala
 115 120 125
 Val Gln Lys Glu Ile Asp Tyr Ala Ile Ala Leu Leu Lys His Asn Gly
 130 135 140
 Asp Val Arg Ala Glu His His Arg Glu Ser Phe Glu Thr Cys Pro Glu
 145 150 155 160
 Cys Lys Arg Gln Lys Cys Leu Leu Pro Ser Asp Arg Ile Asp Leu Thr
 165 170 175
 Arg His Met Arg Glu Ala Ser
 180

<210> 9672
 <211> 791
 <212> PRT
 <213> Enterobacter cloacae

<400> 9672
 Pro Leu Leu Pro Pro Arg Arg Arg Ser Gly Val Tyr Gly Ser Leu Ser
 1 5 10 15
 Asp Ala Cys Ala Gly Leu Arg Arg Ser Arg Gln Ala Arg Thr Asp Glu
 20 25 30
 Cys Arg Lys Thr Ser Pro Arg Gly Val Arg His Leu Val Ile Thr Ala
 35 40 45
 Val Leu Asn Arg Met Ser Ser Asn Gly Val Gln Leu Arg Val Arg Gly
 50 55 60
 Lys Val Gln Gly Val Gly Phe Arg Pro Phe Val Trp Gln Leu Ala His
 65 70 75 80
 Arg Leu Lys Leu Val Gly Asp Val Cys Asn Asp Gly Glu Gly Val Leu
 85 90 95
 Val Arg Leu Ala Gly Ser Gly Gly Asp Phe Thr Ala Arg Leu Arg Gln
 100 105 110
 Asp Cys Pro Pro Leu Ala Arg Ile Asp Arg Val Glu Thr Gln Pro Tyr
 115 120 125
 Ser Trp Asn Thr Leu Pro Asp Glu Phe Val Ile Arg His Ser Glu Ser
 130 135 140
 Gly Ala Met Asp Thr Gln Ile Val Pro Asp Ala Ala Thr Cys Pro Ala
 145 150 155 160
 Cys Leu Ala Glu Met Arg Asp Pro Arg Glu Arg Arg Tyr Arg Tyr Pro
 165 170 175

Phe Ile Asn Cys Thr His Cys Gly Pro Arg Phe Thr Ile Ile Arg Ala
 180 185 190
 Met Pro Tyr Asp Arg Pro Ala Thr Ser Met Ala Pro Phe Pro Leu Cys
 195 200 205
 Met Pro Cys Glu Thr Glu Tyr Arg Asn Pro Ala Asp Arg Arg Phe His
 210 215 220
 Ala Gln Pro Val Ala Cys Pro Asp Cys Gly Pro Gln Leu Glu Trp Arg
 225 230 235 240
 Ala Gly Glu Ala Thr Ala Thr Arg Glu Ser Ala Leu Ser Ala Ala Val
 245 250 255
 Ala Met Leu Glu Gly Gly Gly Ile Val Ala Val Lys Gly Leu Gly Gly
 260 265 270
 Phe His Leu Val Cys Asp Ala Leu Asn Pro Gln Ala Ile Arg Lys Leu
 275 280 285
 Arg Ala Arg Lys Gln Arg Pro Thr Arg Pro Leu Ala Val Met Ile Pro
 290 295 300
 His Ala Asn Asp Leu Pro Lys Thr Ile Gln Thr Leu Leu Arg Ser Pro
 305 310 315 320
 Ala Ala Pro Ile Met Leu Thr Pro Lys Ala Cys Leu Pro Ala Phe Pro
 325 330 335
 Glu Glu Ile Ala Pro Gly Leu Asn Thr Val Gly Val Met Leu Pro Ala
 340 345 350
 Asn Pro Leu Gln His Leu Leu Met Leu Asp Cys Gln Arg Pro Leu Val
 355 360 365
 Met Thr Ser Gly Asn Leu Ser Gly Tyr Pro Pro Val Ile Asn Asn Gln
 370 375 380
 Gln Ala Leu Glu Glu Leu Ser Asp Ile Ala Asp Gly Phe Leu Leu His
 385 390 395 400
 Asn Arg Asp Ile Leu Gln Arg Met Asp Asp Ser Val Met Asp Gln Glu
 405 410 415
 Gly Thr Met Leu Arg Arg Ala Arg Gly Phe Val Pro Asp Ala Ile Thr
 420 425 430
 Leu Pro Ala Gly Phe Arg Asp Ile Pro Pro Met Leu Cys Thr Gly Ala
 435 440 445
 Glu Met Lys Asn Thr Phe Cys Leu Val Arg Gly Asn Gln Ala Val Leu
 450 455 460
 Ser Gln His Phe Gly Asp Leu Ser Asp Glu Gly Val Glu Ala Gln Trp
 465 470 475 480
 Arg Ser Ala Leu Ser Thr Met Gln Glu Ile Tyr Ala Phe Gln Pro Glu
 485 490 495
 Arg Val Val Cys Asp Ala His Pro Gly Tyr His Ala Arg Gln Trp Ala
 500 505 510
 Arg Thr Gln Ala Leu Pro Val Glu Thr Val Leu His His His Ala His
 515 520 525
 Ala Val Ala Cys Leu Ala Glu Asn Gly Trp Pro Leu Asp Gly Gly Asp
 530 535 540
 Val Ile Ala Leu Thr Leu Asp Gly Ile Gly Met Gly Glu Asn Gly Ala
 545 550 555 560
 Leu Trp Gly Gly Glu Cys Leu Arg Val Asn Tyr Arg Asp Cys Glu Arg
 565 570 575
 Leu Gly Gly Leu Pro Ala Val Ala Leu Pro Gly Gly Asp Leu Ala Ala
 580 585 590
 Lys Gln Pro Trp Arg Asn Leu Leu Ala His Cys Leu Ala Phe Val Pro
 595 600 605
 Asp Trp Gln Gln Tyr Pro Glu Thr Val Val Val Gln Arg Gln Asn Trp
 610 615 620
 Pro Leu Leu Ala Thr Ala Val Ser Arg Gly Ile Asn Ala Pro Arg Ala
 625 630 635 640
 Ser Ser Cys Gly Arg Leu Phe Asp Ala Val Ala Cys Ala Leu Gly Ile
 645 650 655
 Glu Thr Gln Arg Tyr Glu Gly Glu Ala Ala Cys Arg Leu Glu Ala Leu

Ala	Glu	Arg	660	Cys	Ala	Gly	Val	Asp	665	His	Pro	Val	Thr	Leu	Gln	Thr	Asp	670
Asn	Leu	Ala	675	Leu	Phe	Trp	Gln	Gln	680	Trp	Leu	Ala	Trp	Arg	Ala	Glu	Pro	685
Gly	Glu	Arg	690	Ala	Trp	Ala	Phe	His	695	Asp	Ala	Leu	Ala	Lys	Gly	Leu	Ser	700
Glu	Leu	Ala	705	Ala	Thr	His	Ala	Arg	710	Arg	Arg	Ser	Leu	Ser	Thr	Val	Cys	715
Phe	Ser	Gly	725	Gly	Val	Leu	His	Asn	725	Arg	Leu	Leu	Arg	Ala	Arg	Leu	Arg	730
His	Tyr	Leu	740	Ser	Asp	Phe	Thr	Leu	745	Leu	Phe	Pro	Ser	Arg	Leu	Pro	Ala	750
Gly	Asp	Gly	755	Ala	Ile	Ser	Phe	Gly	760	Gln	Ala	Val	Val	Ala	Ala	Ala	Arg	765
Ser	Cys	Ser	770	Gln	Arg	Ile			775									780
			785						790									

<210> 9673

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 9673

Thr	Lys	Gly	Ala	Gly	Ala	Phe	Val	Thr	Glu	Ala	Gln	Ala	Gly	His	Leu			
1			5					10						15				
Phe	His	Gln	Ser	Gly	Asn	Phe	Arg	His	His	His	Val	Ile	His	Gly	Gly			
			20				25						30					
Gly	Thr	His	Gln	His	Ala	Phe	Gly	Ala	Glu	Asp	Val	Gly	Gln	Tyr	Leu			
			35				40					45						
Ile	Leu	Ile	Ala	Ala	Arg	His	Val	Glu	Asp	Phe	His	Arg	His	Val	Arg			
50					55					60								
Val	Asn	Phe	Val	Asp	Ala	Leu	Gly	Asn	Gly	Val	Arg	His	His	Ala	Gly			
65				70					75					80				
Val	Val	Gly	His	Gly	Val	Val	Glu	Asp	Arg	Asn	Ala	Val	Phe	Leu	Ile			
			85					90					95					
Val	Arg	Arg	Pro	Leu	Gln	Val	Gln	Phe	Asp	Asn	Leu	Gly	Trp	Ile	Phe			
			100					105					110					
Thr	Pro	Tyr	His	Ala	Val	Gly	Gly	Gly	Asn	His	Ile	His	Arg	Gln	Val			
		115					120						125					
Glu	Ala	Glu	Asp	Leu	Gly	Asp	Phe	Trp	Arg	Asp	Gln	Thr	Ala	Glu	Arg			
130					135						140							
Gly	Gln	Asp	Val	Gly	Val	Val	Ala	Leu	Ala	Leu	Phe	Glu	Gln	Leu	Gly			
145				150					155					160				
Leu	Ile	His	Phe	Val	Val	Glu	Gln	Thr	Phe	Val	Ala	Val	Val	Leu	Ala			
			165					170					175					
Glu	Gly	Val	Val	Thr	Glu	Gln	His	Arg	Val	Thr	Gly	His	Val	Gly	His			
			180					185					190					
His	Ala	Val	Arg	Pro	Val	Gln	His	Trp	Gly	Phe	His	Glu	Asp	Gln	Leu			
		195				200						205						
Phe	Ala	Val	Ala	Asp	Ile	Gln	Arg	Val	Ala	Gly	Phe	His	Ser	Val	Glu			
210					215					220								
Val	Pro	Leu	Arg	Met	Val	Val	Val	Ala	Val	Asp	Gly	Val	Asn	Gly	Val			
225				230					235					240				
Ser	Gly	Ala	Val	Asp	Arg	Gly	Ile	Arg	Asn	Val	Gly	His	Gln	Leu	Gly			
			245					250					255					
Gln	Arg	Pro	Gly	Met	Ile	Leu	Phe	Arg	Val	Val	Asp	Asp	Asn	Val	Val			
		260					265					270						
Asp	Leu	Ile	Gln	Ile	Asp	Phe	Ala	Ala	Gln	Val	Leu	His	Glu	Leu	Ala			
		275				280						285						
Ala	Glu	Phe	Val	Ile	Asp	Gly	Ile	Asp	Gln	Asp	Val	Phe	Thr	Phe	Thr			

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      290              295              300
Asn Glu Ile Ala Val Val Ala Ala Ala Ala Gln Arg Phe Val Phe Arg
305              310              315              320
Pro Val Lys Ile Thr Tyr Phe Pro Val Thr Leu Thr His Pro Met Asn
              325              330              335
Val Ile Phe Asn Gln Asn Arg His Ser Asn Leu Asn Leu Ile Arg Arg
              340              345              350
Phe Gln Ile Arg
              355

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<210> 9674

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 9674

```

Gln Leu Thr Arg Gln Ala Met Leu Asn Leu Gln Arg Thr Ala Met Phe
1              5              10              15
Ile Ala Val Ala Asp Thr Gly Ser Phe Thr Ala Ala Ala Glu Ala Met
              20              25              30
Gly Leu Thr Lys Ala Val Val Ser Phe His Ile Arg Gln Leu Glu Glu
35              40              45
Glu Leu Gly Val Thr Leu Leu Leu Arg Thr Thr Arg Arg Leu Thr Leu
50              55              60
Thr Glu Ala Gly Lys Leu Phe His Gln Arg Ser Val Met Leu Leu Arg
65              70              75              80
Asp Ala Glu Arg Leu Gln Asp Asp Val Arg Ala Asn His Ala Gly Leu
              85              90              95
Thr Gly Glu Leu Arg Ile Thr Thr Thr Thr Pro Glu Tyr Gly Ser Gln Val
100              105              110
Val Val Pro Leu Leu Ala Glu Phe Ser Gln Leu His Pro Asp Leu Arg
115              120              125
Val Arg His Val Ser Ser Ser Leu His Ala Asp Leu Ile Ala Glu Arg
130              135              140
Phe Asp Val Ala Ile Arg Leu Gly Thr Leu Ala Asp Ser Arg Tyr His
145              150              155              160
Ala Ala Leu Met Thr Ser Phe Thr Ile Leu Pro Val Ala Thr Pro Gly
165              170              175
Trp Leu Ala Asn His Pro Val Asp Ser Leu Glu Gln Leu Ala Glu Ala
180              185              190
Asp Trp Ile Ile His Glu Arg Leu Thr Ser Pro Leu Arg Trp Gln Val
195              200              205
Arg Gly Val Asp Gly His Pro Val Ser Phe Glu Ile Lys Lys Ala Pro
210              215              220
Arg Leu Tyr Ala Asp Ser Ala Gln Ala Leu Met Ala Phe Ala Leu Ala
225              230              235              240
Gly Cys Gly Val Ala Leu Leu Pro Glu Trp Leu Val Arg Asn Ala Leu
245              250              255
Asp Ala Gly Glu Leu Val Ser Leu Leu Pro Ala Tyr Thr Phe Ala Gln
260              265              270
Gln Gly Ile Tyr Ala Val Tyr Pro Asp Ala Arg His Val Pro Ala Lys
275              280              285
Val Arg Thr Phe Ile Asp Phe Met Arg Val Arg Val Thr
290              295              300

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<210> 9675

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 9675

Pro Arg Cys Trp Arg His Val Asn Lys Glu Lys Met Ile Cys Pro
 1 5 10 15
 Arg Cys Ala Asp Glu His Ile Glu Val Met Ala Thr Ser Pro Val Lys
 20 25 30
 Gly Val Trp Thr Val Tyr Gln Cys Gln His Cys Leu Tyr Thr Trp Arg
 35 40 45
 Asp Thr Glu Pro Leu Arg Arg Thr Ser Arg Glu His Tyr Pro Glu Ala
 50 55 60
 Phe Arg Met Thr Gln Lys Asp Ile Asp Glu Ala Pro Gln Val Pro Thr
 65 70 75 80
 Ile Pro Pro Leu Leu
 85

<210> 9676

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 9676

Gln Gly Leu Thr Ala Glu Tyr Asn Tyr Thr Ser Pro Arg Gln Leu Thr
 1 5 10 15
 Ile Leu Phe Ile Val Ser Glu Arg His Met Phe Trp Ile Ile Asn Asp
 20 25 30
 Lys Ile Lys Phe Cys Pro Glu Arg Asn Leu Leu Ile Ser Leu Thr Arg
 35 40 45
 Pro Asp Leu Asn Val Ile Leu Thr Thr Pro Ala Ser Arg Cys Leu Asn
 50 55 60
 Leu Leu Leu Glu Ser Phe Pro Glu Val Val Thr Gln Lys Tyr Phe Phe
 65 70 75 80
 Asp Lys Val Trp Gly Glu Asp Gly Met Leu Val Pro Ala Asn Thr Leu
 85 90 95
 Tyr Gln Asn Ile Ser Ile Ile Arg Arg Gly Leu Arg Thr Thr Gly Glu
 100 105 110
 Thr Asp Asp Thr Leu Val Ala Thr Val Pro Arg Lys Gly Phe Gln Ile
 115 120 125
 Glu Lys Asn Val Arg Val Thr Arg Val Asp Thr Asp Cys Val Asp Asp
 130 135 140
 Gly Lys Lys Ala Thr Ala Thr Gly Val Glu Thr Ser Pro Val Glu Thr
 145 150 155 160
 Lys Asp Lys Pro Val Glu Asn Ile Pro Val Met Pro Gly Gly Arg Lys
 165 170 175
 Lys Gln Arg Gln Leu Arg Gln Tyr Ile Phe Pro Thr Ala Leu Met Ile
 180 185 190
 Ile Ala Phe Cys Ala Gly Phe Phe Ala Phe Gln Tyr Leu Leu His Asp
 195 200 205
 Asn Pro Glu Lys Asp Phe Phe Arg Asp Tyr Pro Ile Thr Leu Thr Gln
 210 215 220
 Asn Gly Cys His Phe Ser Ser Gln Asn Asp Asp Ile Arg Gly Val Gly
 225 230 235 240
 Asn Phe Arg Arg Phe Ile Lys Ile Ile Leu Asp Thr Gly Leu Asp Cys
 245 250 255
 Lys Lys Tyr Pro Trp Val Tyr Phe Ser Ser Ser Ser His Ala Pro Ala
 260 265 270
 Leu Ser Val Leu Ala Cys Arg Glu Pro Phe Glu Ile Lys Ala Asn Ala
 275 280 285
 Gly Cys Ile Ser Leu Tyr Phe Arg Gly His Leu
 290 295 300

<210> 9677

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 9677

Gly Ala Tyr Pro Met Ser Glu Thr Val Val Phe Ser Gln Leu Ser Arg
 1 5 10 15
 Lys Phe Ile Asp Glu Asn Asp Ala Thr Pro Asp Ala Ala Gln Gln Val
 20 25 30
 Val Tyr Tyr Ser Leu Ala Ile Gly His His Leu Gly Val Ile Asp Cys
 35 40 45
 Leu Glu Ala Ala Leu Thr Cys Pro Trp Pro Glu Tyr Leu Ala Trp Ile
 50 55 60
 Val Thr Leu Glu Glu Gly Ser Thr Ala Arg Arg Lys Met Glu Gly Val
 65 70 75 80
 Pro Lys Tyr Gly Glu Ile Val Ile Asp Ala Asn His Ile Ala Met Leu
 85 90 95
 Ala Asn Ala Phe Asp Ala Ala Leu Ser Val Gln Thr Pro Ala Gln Gln
 100 105 110
 Ala Trp Ser Lys Thr Leu Leu Gly Met Leu His Asp Ile His Gln Glu
 115 120 125
 Ser Ala Ile Tyr Leu Met Val Arg Arg Leu Arg Asp
 130 135 140

<210> 9678

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 9678

Ser Thr Leu Arg Leu Ile Gly Phe Glu Trp Asn Asn Thr Met Thr Thr
 1 5 10 15
 Met Leu Glu Val Ala Lys Arg Ala Gly Val Ser Lys Ala Thr Val Ser
 20 25 30
 Arg Val Leu Ser Gly Asn Gly Tyr Val Ser Gln Glu Thr Lys Asp Arg
 35 40 45
 Val Phe Gln Ala Ile Glu Glu Ser Gly Tyr Arg Pro Asn Leu Leu Ala
 50 55 60
 Arg Asn Leu Ala Thr Lys Arg Thr Gln Thr Leu Gly Leu Val Val Thr
 65 70 75 80
 Asn Thr Leu Tyr His Gly Val Tyr Phe Ser Glu Leu Leu Phe Asn Ala
 85 90 95
 Ala Arg Met Thr Glu Glu Lys Gly Arg Gln Leu Ile Leu Ala Asp Gly
 100 105 110
 Lys His Ser Ala Glu Glu Glu Arg Glu Ala Ile Gln Tyr Leu Leu Asp
 115 120 125
 Met Arg Cys Asp Ala Val Ile Ile Tyr Pro Arg Phe Leu Ser Val Glu
 130 135 140
 Ala Leu Asp Glu Ile Ile Glu Lys Cys Glu Gln Pro Ile Met Val Leu
 145 150 155 160
 Asn Arg Arg Leu Arg Lys Asn Ser Ser His Ser Val Trp Ser Asp His
 165 170 175
 Lys Ala Ser Cys Gln Asp Ala Val Ser Gln Leu Ile Ala Lys Gly His
 180 185 190
 Arg Glu Ile Ala Phe Ile Thr Gly Ser Leu Asp Ser Pro Thr Gly Val
 195 200 205
 Glu Arg Leu Ser Gly Tyr Arg Glu Ala Leu Ala Gln His Gly Ile Ala
 210 215 220
 Val Arg Asp Ala Leu Ile Ala Glu Gly Lys Trp Ser Pro Ala Ser Gly
 225 230 235 240
 Ala Ala Ala Val Ser Gln Leu Leu Thr Arg Gly Glu Ala Phe Thr Ala
 245 250 255
 Leu Val Ala Ser Asn Asp Asp Met Ala Ile Gly Ala Ile Arg Gln Leu

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<210> 9679
<211> 194
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<211> 413
<212> PRT
<213> Enterobacter cloacae
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1	Ala	Asn	Trp	Arg	5	Ile	Arg	Met	Pro	Ala	Asp	10	Gly	Arg	Ser	Leu	Arg	Cys	15
1	Ala	Ser	Ala	Ala	Ala	Ser	Phe	Thr	Thr	Ala	Cys	25	Cys	Cys	Ala	Arg	Ala	Phe	30
Val	Ile	Thr	Phe	Leu	Ile	Ser	Arg	Phe	Phe	Phe	Leu	40	Arg	Ala	Cys	Pro			45
Gln	Ala	Thr	Glu	Arg	Ser	Pro	Ser	Gly	Arg	Arg	Trp	50	Leu	Leu	Pro	Glu			55
Asp	His	Val	His	Lys	Gly	Phe	Lys	Met	Leu	Arg	Leu	60	Leu	Leu	Arg	Asn	Glu		65
					70							75							80

Pro Arg Ala Ala Cys Leu Leu Leu Ala Leu Gly Met Ala Asn Leu Leu
 85 90 95
 Ala Trp Gly Leu Ala Trp His Thr Phe Ser Asp Ser Thr Ala Leu Met
 100 110
 Ala Ala Ser Leu Leu Ala Trp Cys Tyr Gly Leu Arg His Ala Val Asp
 115 120 125
 Ala Asp His Ile Ala Ala Ile Asp Thr Val Thr Arg Lys Met Met Gln
 130 135 140
 Gln Gly Lys Arg Pro Ser Gly Val Gly Ala Trp Phe Ser Leu Gly His
 145 150 155 160
 Ser Thr Ile Val Val Leu Ala Ser Ile Ala Ile Ala Thr Ala Thr
 165 170 175
 Ala Phe Gln Lys Asn Met Ala Trp Phe His Glu Thr Gly Ser Leu Ile
 180 185 190
 Gly Thr Ala Val Ser Ala Thr Phe Leu Leu Ala Met Ala Leu Val Asn
 195 200 205
 Met Val Ile Leu Arg Gly Val Trp Arg Ser Phe Gln Ala Leu Lys His
 210 215 220
 Gly Arg Pro Val Gln Gly Asp Ile Thr Leu Pro Ala Gln Gly Gly Val
 225 230 235 240
 Met Asn Trp Leu Phe Gly Lys Thr Phe Arg Leu Val Asn Lys Ser Trp
 245 250 255
 Gln Met Tyr Leu Val Gly Phe Leu Phe Gly Leu Gly Phe Asp Thr Ala
 260 265 270
 Thr Glu Ile Gly Val Leu Gly Ile Ser Ala Ala Ser Ala Ser Ser Gly
 275 280 285
 Met Ser Val Trp Ser Ile Met Ile Phe Pro Ala Leu Phe Ala Ser Gly
 290 295 300
 Met Ala Leu Val Asp Thr Leu Asp Asn Leu Leu Met Val Gly Ala Tyr
 305 310 315 320
 Gly Trp Ala Phe Asn Lys Pro Gln Arg Lys Leu Tyr Tyr Asn Met Thr
 325 330 335
 Ile Thr Gly Thr Ser Val Val Val Ala Leu Phe Ile Gly Gly Leu Glu
 340 345 350
 Ala Leu Gly Leu Leu Met Asp Lys Phe Ser Leu Ser Gly Gly Val Trp
 355 360 365
 Asp Leu Ile Gly Ala Val Asn Asp Asn Leu Gly Asp Ala Gly Phe Val
 370 375 380
 Val Val Gly Leu Phe Val Ala Cys Trp Leu Ile Ser Met Ala Asn Tyr
 385 390 395 400
 Arg Trp Arg Gly Tyr Asp Ala Leu Val Val Arg Ser
 405 410

<210> 9681

<211> 533

<212> PRT

<213> Enterobacter cloacae

<400> 9681

Cys Ser Gln Met Gly Ser His Phe Asp Tyr Leu Lys Asn Cys Gln Tyr
 1 5 10 15
 Asp Thr Met His Cys Gln Asn Asp Ser Glu Ala Glu Met Ser Phe Ser
 20 25 30
 Val Asp Val Leu Ala Lys Ile Ala Ile Glu Leu Gln Thr Gly Ile Gly
 35 40 45
 His Gln Asp Arg Phe Gln Arg Leu Ile Ser Thr Leu Arg His Val Leu
 50 55 60
 Asp Cys Asp Ala Ser Ala Leu Leu Arg Tyr Glu Gly Arg Gln Phe Ile
 65 70 75 80
 Pro Leu Ala Ile Asp Gly Leu Ala Lys Asp Val Leu Gly Arg Arg Phe
 85 90 95

Thr Leu Glu Gly His Pro Arg Leu Glu Thr Ile Ala Arg Ala Gly Asp
 100 105 110
 Val Val Arg Phe Pro Ala Asp Ser Asp Leu Pro Asp Pro Tyr Asp Gly
 115 120 125
 Leu Ile Pro Gly Gln Glu Ser Leu Lys Val His Ala Cys Ile Gly Leu
 130 135 140
 Pro Leu Phe Ala Gly Gln Asn Leu Ile Gly Ala Leu Thr Leu Asp Gly
 145 150 155 160
 Met Ser Pro Asp Gln Phe Asp Thr Phe Ser Asp Glu Glu Leu Arg Leu
 165 170 175
 Ile Ala Ala Leu Ala Ala Gly Ala Leu Asn Asn Ala Leu Leu Ile Glu
 180 185 190
 Gln Leu Glu Ser Gln Asn Ile Leu Pro Gly Ser Pro Thr Ala Phe Glu
 195 200 205
 Gln Val Ala His Thr Glu Met Ile Gly Leu Ser Pro Gly Met Ala Gln
 210 215 220
 Leu Lys Lys Glu Ile Glu Ile Val Ala Ala Ser Asp Leu Asn Val Leu
 225 230 235 240
 Ile Phe Gly Glu Thr Gly Thr Gly Lys Glu Leu Val Ala Lys Ala Ile
 245 250 255
 His Glu Ala Ser Pro Arg Ala Val Asn Pro Leu Val Tyr Leu Asn Cys
 260 265 270
 Ala Ala Leu Pro Glu Ser Val Ala Glu Ser Glu Leu Phe Gly His Val
 275 280 285
 Lys Gly Ala Phe Thr Gly Ala Ile Ser Asn Arg Ser Gly Lys Phe Glu
 290 295 300
 Met Ala Asp Asn Gly Thr Leu Phe Leu Asp Glu Ile Gly Glu Leu Ser
 305 310 315 320
 Leu Ser Leu Gln Ala Lys Leu Leu Arg Val Leu Gln Tyr Gly Asp Ile
 325 330 335
 Gln Arg Val Gly Asp Asp Arg Ser Leu Arg Val Asp Val Arg Val Leu
 340 345 350
 Ala Ala Thr Asn Arg Asp Leu Arg Glu Glu Val Leu Ala Gly Asn Phe
 355 360 365
 Arg Ala Asp Leu Phe His Arg Leu Ser Val Phe Pro Leu Thr Val Pro
 370 375 380
 Pro Leu Arg Glu Arg Gly Glu Asp Val Val Leu Leu Ala Gly Phe Phe
 385 390 395 400
 Cys Glu Gln Cys Arg Leu Lys Met Gly Leu Ser Arg Val Val Leu Ser
 405 410 415
 Pro Gly Ala Arg Thr His Leu Leu Ser Tyr Gly Trp Pro Gly Asn Val
 420 425 430
 Arg Glu Leu Glu His Ala Ile His Arg Ala Val Val Leu Ala Arg Ala
 435 440 445
 Thr Arg Ser Gly Asp Glu Val Val Ile His Ala Arg His Phe Ala Leu
 450 455 460
 His Glu Glu Thr Thr Pro Ser Val Lys Pro Val Ile Pro Glu Ser Val
 465 470 475 480
 Asn Glu Asn Leu Arg Glu Ala Thr Asn Ala Phe Gln Arg Gln Met Ile
 485 490 495
 Ala Arg Ala Leu Glu Gln Asn Asn Arg Ser Trp Ala Ala Gys Ala Arg
 500 505 510
 Ala Leu Glu Met Asp Val Ala Asn Leu His Arg Leu Ala Lys Arg Leu
 515 520 525
 Gly Leu Lys Gly
 530

<210> 9682

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 9682

Gly Ser Gly Ser Ala Gly Cys His Pro Arg Leu His Val Lys Ile Tyr
 1 5 10 15
 Phe Val Ile Lys Glu Arg His Met Ser Gln Val Ala Val Val Ile Gly
 20 25 30
 Gly Gly Gln Thr Leu Gly Glu Phe Leu Cys His Gly Leu Ala Ala Glu
 35 40 45
 Gly Tyr Arg Val Ala Val Val Asp Ile Gln Ser Glu Lys Ala Ala Arg
 50 55 60
 Val Ala Asp Ala Ile Asn Thr Glu Phe Gly Glu Gly Met Ala Tyr Gly
 65 70 75 80
 Phe Gly Ala Asp Ala Thr Ser Glu Gln Ser Val Met Ala Leu Ala Arg
 85 90 95
 Gly Val Asp Glu Ile Phe Gly Arg Ile Asp Leu Leu Val Tyr Ser Ala
 100 105 110
 Gly Ile Ala Lys Ala Ala Phe Ile Ser Asp Phe Glu Leu Gly Asp Phe
 115 120 125
 Asp Arg Ser Leu Gln Val Asn Leu Val Gly Tyr Phe Leu Cys Ala Arg
 130 135 140
 Glu Phe Ser Arg Leu Met Ile Arg Asp Gly Ile Gln Gly Arg Ile Ile
 145 150 155 160
 Gln Ile Asn Ser Lys Ser Gly Lys Val Gly Ser Lys His Asn Ser Gly
 165 170 175
 Tyr Ser Ala Ala Lys Phe Gly Gly Val Gly Leu Thr Gln Ser Leu Ala
 180 185 190
 Leu Asp Leu Ala Glu Tyr Gly Ile Thr Val His Ala Leu Met Leu Gly
 195 200 205
 Asn Leu Leu Lys Ser Pro Met Phe Gln Ser Leu Leu Pro Gln Tyr Ala
 210 215 220
 Ala Lys Leu Gly Ile Lys Ala Glu Glu Val Glu Gln Tyr Tyr Ile Asp
 225 230 235 240
 Lys Val Pro Leu Lys Arg Gly Cys Asp Tyr Gln Asp Val Leu Asn Met
 245 250 255
 Leu Leu Phe Tyr Ala Ser Pro Lys Ala Ser Tyr Cys Thr Gly Gln Ser
 260 265 270
 Ile Asn Val Thr Gly Gly Gln Val Met Phe
 275 280

<210> 9683

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 9683

Gly Gly Val Met His Glu Ile Thr Leu Cys Gln Arg Ala Leu Glu Leu
 1 5 10 15
 Ile Glu Gln Gln Ala Val Gln Asn His Ala Lys Arg Val Thr Gly Val
 20 25 30
 Trp Leu Lys Val Gly Ala Phe Ser Cys Val Glu Thr Ser Ala Leu Thr
 35 40 45
 Phe Cys Phe Glu Leu Val Cys Arg Gly Thr Leu Ala Glu Gly Cys Ala
 50 55 60
 Leu His Ile Glu Glu Gln Gln Ala Glu Cys Trp Cys Glu Gln Cys Gln
 65 70 75 80
 Glu Tyr Val Thr Leu Leu Ser Ser Lys Val Gln Arg Cys Pro Gln Cys
 85 90 95
 Gln Ser Ser Gly Leu Arg Ile Val Ala Asp Gly Met Gln Ile Gln
 100 105 110
 Arg Leu Glu Ile Glu Lys Glu
 115 120

<210> 9684

<211> 289

<212> PRT

<213> Enterobacter cloacae

<400> 9684

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Ser Met Cys Ser Thr Cys Gly Cys Ala Glu Gly Asn Leu Tyr Ile Glu
1      5      10      15
Gly Asp Glu His Arg Pro His Ser Ala Phe Arg Ser Ala Pro Phe Ser
20      25      30
Pro Ala Pro Arg Pro Ala Ala Ala Leu Thr Gly Ile Thr Phe Ala Pro
35      40      45
Gln Arg Ser Asp Ala Gly Asp Leu His Tyr Gly Arg Gly Glu Ala Gly
50      55      60
Thr His Ala Pro Gly Ile Ser Gln Arg Gln Met Leu Glu Val Glu Ile
65      70      75      80
Asn Val Leu Asp Lys Asn Asn Gln Leu Ala Val Arg Asn Arg Ala Arg
85      90      95
Phe Ala Ala Arg Glu Gln Leu Val Leu Asn Leu Val Ser Ser Pro Gly
100     105     110
Ser Gly Lys Thr Thr Leu Leu Thr Glu Thr Leu Lys Arg Leu Asn Lys
115     120     125
Arg Val Ser Cys Ala Val Ile Glu Gly Asp Gln Gln Thr Val Asn Asp
130     135     140
Ala Ala Arg Ile Arg Glu Thr Gly Thr Pro Ala Ile Gln Val Asn Thr
145     150     155     160
Gly Lys Gly Cys His Leu Asp Ala Gln Met Ile Ala Asp Ala Ala Pro
165     170     175
Arg Leu Pro Leu Ala Asn Asn Gly Ile Leu Phe Ile Glu Asn Val Gly
180     185     190
Asn Leu Val Cys Pro Ala Ser Phe Asp Leu Gly Glu Arg His Lys Val
195     200     205
Ala Val Leu Ser Val Thr Glu Gly Glu Asp Lys Pro Leu Lys Tyr Pro
210     215     220
His Met Phe Ala Ala Ala Ser Leu Met Leu Leu Asn Lys Val Asp Leu
225     230     235     240
Leu Pro Tyr Leu Asn Phe Asp Val Asp Lys Cys Leu Ala Tyr Ala Arg
245     250     255
Glu Val Asn Pro Asp Ile Glu Ile Leu Leu Val Ser Ala Thr Arg Gly
260     265     270
Asp Gly Met Asp Ala Trp Leu Asn Trp Leu Glu Asn Glu Arg Cys Ala
275     280     285

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<210> 9685

<211> 703

<212> PRT

<213> Enterobacter cloacae

<400> 9685

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Ile Ser Leu Phe Ala Ser Phe Tyr Trp Lys Ala Thr Met Pro Tyr Thr
1      5      10      15
Pro Met Ser Asp Leu Gly Gln Gln Gly Leu Phe Asp Ile Thr Arg Thr
20      25      30
Leu Leu Gln Gln Pro Asp Leu Gly Ala Leu Ser Asp Ala Leu Thr Arg
35      40      45
Leu Val Arg Gln Ser Ala Leu Ala Asp Ser Ala Ala Ile Val Leu Trp
50      55      60
His Ser Ala Thr His Arg Ala Ser Tyr Phe Ser Thr Arg Asp Asn Gly

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65					70					75					80
Lys	Ile	Phe	Glu	Tyr	Glu	Asp	Glu	Thr	Phe	Leu	Ala	His	Gly	Pro	Val
				85						90				95	
Arg	Arg	Ile	Leu	Ser	Arg	Pro	Glu	Ala	Leu	His	Cys	Asn	Phe	Asp	Gln
			100					105					110		
Phe	Arg	Gln	Ala	Trp	Pro	Lys	Leu	Ala	Glu	Ser	Asn	Leu	Tyr	His	Pro
		115					120				125				
Phe	Gly	His	Tyr	Ser	Met	Leu	Pro	Leu	Ala	Val	Glu	Gly	Gln	Ile	Phe
	130					135				140					
Gly	Gly	Cys	Glu	Phe	Ile	Arg	Asp	Thr	Asp	Gln	Pro	Trp	Ser	Glu	Ala
	145			150					155						160
Glu	Tyr	Glu	Arg	Leu	His	Thr	Phe	Thr	Gln	Ile	Val	Ala	Val	Val	Ala
				165					170					175	
Glu	Gln	Ile	Gln	Ser	Arg	Val	Thr	Asn	Asn	Val	Asp	Tyr	Asp	Leu	Leu
			180					185					190		
Ser	Arg	Glu	Arg	Asp	Asn	Phe	Arg	Ile	Leu	Val	Ala	Ile	Thr	Asn	Ala
		195					200					205			
Val	Leu	Ser	Arg	Leu	Asp	Met	Asp	Glu	Leu	Val	Ser	Glu	Val	Ser	Lys
	210					215					220				
Glu	Ile	His	His	Tyr	Phe	Lys	Ile	Asp	Ala	Ile	Ser	Ile	Ala	Leu	Arg
	225					230			235					240	
Gly	Asn	Arg	Lys	Gly	Lys	Leu	Asn	Ile	Tyr	Ser	Thr	His	Tyr	Leu	Asp
			245					250					255		
Glu	Ala	Asn	Pro	Ala	His	Glu	Gln	Ser	Glu	Val	Asp	Glu	Ala	Gly	Thr
			260					265					270		
Leu	Ser	Glu	Arg	Val	Phe	Lys	Ser	Lys	Glu	Ile	Leu	Leu	Asn	Leu	
		275					280				285				
Asn	Glu	Gln	Asp	Pro	Val	Ala	Pro	Tyr	Glu	Arg	Met	Leu	Phe	Asn	Thr
	290					295					300				
Trp	Gly	Asn	Lys	Ile	Gln	Thr	Leu	Cys	Leu	Leu	Pro	Leu	Met	Ser	Gly
	305				310				315						320
Asn	Thr	Met	Leu	Gly	Val	Leu	Lys	Leu	Ala	Gln	Cys	Asp	Glu	Ala	Val
			325						330					335	
Phe	Thr	Thr	Ala	Asn	Leu	Lys	Leu	Leu	Arg	Gln	Ile	Ala	Glu	Arg	Ile
			340					345					350		
Ser	Ile	Ala	Leu	Asp	Asn	Ala	Leu	Ala	Tyr	Gln	Glu	Ile	His	Arg	Leu
		355					360					365			
Lys	Glu	Arg	Leu	Val	Asp	Glu	Asn	Leu	Ala	Leu	Thr	Glu	Gln	Leu	Asn
	370					375					380				
Asn	Val	Asp	Ser	Glu	Phe	Gly	Glu	Ile	Ile	Trp	Arg	Ser	Asp	Ala	Met
	385					390			395					400	
Tyr	Ser	Val	Leu	Lys	Gln	Val	Glu	Met	Val	Ala	Gln	Ser	Asp	Ser	Thr
			405					410					415		
Val	Leu	Ile	Leu	Gly	Glu	Thr	Gly	Thr	Gly	Lys	Glu	Leu	Ile	Ala	Arg
		420					425					430			
Ala	Ile	His	Asn	Leu	Ser	Asn	Arg	Asn	Ser	Arg	Arg	Met	Val	Lys	Met
		435					440					445			
Asn	Cys	Ala	Ala	Met	Pro	Ala	Gly	Leu	Leu	Glu	Ser	Asp	Leu	Phe	Gly
	450					455				460					
His	Glu	Arg	Gly	Ala	Phe	Thr	Gly	Ala	Ser	Ser	Gln	Arg	Leu	Gly	Arg
	465					470				475				480	
Phe	Glu	Leu	Ala	Asp	Lys	Ser	Ser	Leu	Phe	Leu	Asp	Glu	Val	Gly	Asp
			485						490					495	
Met	Pro	Leu	Glu	Leu	Gln	Pro	Lys	Leu	Leu	Arg	Val	Leu	Gln	Glu	Gln
		500						505					510		
Glu	Phe	Glu	Arg	Leu	Gly	Ser	Asn	Lys	Leu	Ile	Gln	Thr	Asp	Val	Arg
		515					520				525				
Leu	Ile	Ala	Ala	Thr	Asn	Arg	Asp	Leu	Lys	Lys	Met	Val	Ala	Asp	Arg
	530					535					540				
Glu	Phe	Arg	Ser	Asp	Leu	Tyr	Tyr	Arg	Leu	Asn	Val	Phe	Pro	Ile	Cys
	545				550				555					560	

Leu Pro Pro Leu Arg Glu Arg Pro Glu Asp Ile Pro Leu Leu Val Lys
 565 570 575
 Ala Phe Thr Ala Lys Ile Ala Arg Arg Met Gly Arg Asn Ile Asp Ser
 580 585 590
 Ile Pro Ala Glu Thr Leu Arg Thr Leu Ser Ala Met Glu Trp Pro Gly
 595 600 605
 Asn Val Arg Glu Leu Glu Asn Val Ile Glu Arg Ala Val Leu Leu Thr
 610 615 620
 Arg Gly Asn Val Leu Gln Leu Ser Leu Pro Glu Val Ser Leu Ala Glu
 625 630 635 640
 Thr Thr Val Ala Ala Thr Glu Val Ala Lys Asp Gly Glu Asp Glu Tyr
 645 650 655
 Gln Leu Ile Leu Arg Val Leu Arg Glu Thr Asn Gly Val Val Ala Gly
 660 665 670
 Pro Lys Gly Ala Ala Gln Arg Leu Glu Leu Lys Arg Thr Thr Leu Leu
 675 680 685
 Ser Arg Met Lys Arg Leu Gly Ile Asp Lys Glu Ser Leu Asn
 690 695 700

<210> 9686

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 9686

Arg Val Phe Thr Val Ile Leu Tyr Arg Gln Ser Glu His Thr Leu Pro
 1 5 10 15
 Thr Val Thr Gly Gly Ser Met Gln Gly Met Ala Ile Thr Lys Pro Tyr
 20 25 30
 Arg His Leu Lys Val Gly Tyr Phe Arg Lys Arg His Glu Asp Arg Lys
 35 40 45
 Thr Lys Ile Pro Thr Arg Tyr Ser Val His Ala Ala Leu Asn Leu Lys
 50 55 60
 Gly Asp Trp Leu Glu Lys Ala Gly Phe Leu Thr His Ser Gln Val Arg
 65 70 75 80
 Val Glu Val Gly Pro Gly Lys Ile Ile Ile Glu Leu Ile Lys Glu Pro
 85 90 95
 Asp Asp Gly His Pro Gly His Val Val Gln Arg Glu Gln
 100 105 110

<210> 9687

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 9687

Thr Glu Ser Pro Ser Phe Arg Ser His Ser Met Asn Arg Ile Arg Ile
 1 5 10 15
 Glu Lys Gly Thr Gly Gly Trp Gly Gly Pro Leu Glu Phe Asp Ala Thr
 20 25 30
 Glu Gly Lys Lys Ile Val Tyr Ile Thr Ala Gly Thr Arg Pro Ala Ile
 35 40 45
 Val Asp Lys Leu Arg Glu Leu Thr Gly Trp Glu Ala Val Asp Gly Phe
 50 55 60
 Lys Glu Gly Glu Pro Pro Glu Ala Glu Ile Gly Val Ala Val Ile Asp
 65 70 75 80
 Cys Gly Gly Thr Leu Arg Cys Gly Ile Tyr Pro Lys Arg Arg Ile Pro
 85 90 95
 Thr Val Asn Ile His Ser Thr Gly Lys Ser Gly Pro Leu Ala Gln Tyr
 100 105 110
 Ile Val Glu Asp Ile Tyr Val Ser Gly Val Lys Glu Asp Asn Ile Thr

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      115              120              125
Leu Val Asn Gly Thr Ser Ala Pro Gln Lys Ala Ala Pro Arg Glu Tyr
130              135              140
Asp Thr Ser Lys Lys Ile Thr Glu Gln Ser Asp Gly Leu Leu Ala Lys
145              150              155              160
Val Gly Met Gly Met Gly Ser Ala Val Ala Val Leu Phe Gln Ser Gly
      165              170              175
Arg Asp Thr Ile Asp Thr Val Leu Lys Thr Ile Leu Pro Phe Met Ala
      180              185              190
Phe Val Ser Ala Leu Ile Gly Ile Ile Met Ala Ser Gly Leu Gly Asp
      195              200              205
Trp Ile Ala His Gly Leu Ala Pro Leu Ala Ser His Pro Leu Gly Leu
      210              215              220
Val Thr Leu Ala Leu Ile Cys Ser Phe Pro Leu Leu Ser Pro Phe Leu
      225              230              235              240
Gly Pro Gly Ala Val Ile Ala Gln Val Ile Gly Val Leu Ile Gly Val
      245              250              255
Gln Ile Gly Leu Gly Asn Ile Leu Pro His Leu Ala Leu Pro Ala Leu
      260              265              270
Phe Ala Ile Asn Ala Gln Ala Ala Cys Asp Phe Ile Pro Val Gly Leu
      275              280              285
Ser Leu Ala Glu Ala Arg Gln Glu Thr Val Arg Val Gly Val Pro Ser
      290              295              300
Val Leu Val Ser Arg Phe Leu Thr Gly Ala Pro Thr Val Leu Ile Ala
      305              310              315              320
Trp Phe Val Ser Gly Phe Ile Tyr Gln
      325              330

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<210> 9688

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 9688

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Glu Val Pro Ala Met Thr Val Ile Tyr Gln Thr Thr Ile Thr Arg Ile
1      5      10      15
Gly Gln Ser Ala Ala Asp Ala Leu Ser Asp Gln Met Leu Ile Thr Phe
      20      25      30
Arg Glu Gly Ala Pro Ala Asp Ile Glu Glu Phe Cys Phe Ile His Cys
      35      40      45
His Gly Glu Leu Asn Gly Glu Leu Lys Ala Gly Ser Gln Leu Glu Leu
      50      55      60
Gly Lys Ala Arg Tyr Ala Val Thr Ala Val Gly Asp Val Ala Glu Gln
      65      70      75      80
Asn Leu Arg Glu Leu Gly His Ile Thr Leu Arg Phe Asp Gly Gln Pro
      85      90      95
Gln Ala Glu Tyr Pro Gly Thr Val His Val Glu Gly Pro Val Pro Gln
      100      105      110
Ala Val Thr Pro Gly Cys Thr Leu Lys Phe Ile Ser
      115              120              125

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<210> 9689

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 9689

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Gln Gly Ala Asp Met Val Thr Ala Leu Ile Thr Val Ala Ala Leu Ala
1      5      10      15
Trp Ile Cys Gln Met Ala Phe Gly Gly Trp Gln Ile Tyr Gln Phe Asn
      20      25      30

```

Arg Ala Phe Asp Ala Leu Cys Gln Lys Gly Arg Val Gly Val Gly Arg
 35 40 45
 Ser Gly Gly Arg Phe Lys Pro Arg Val Val Val Ala Val Ala Leu Asp
 50 55 60
 Glu His Asn Arg Val Ser Asp Ser Leu Ile Met Arg Gly Val Thr Val
 65 70 75 80
 Phe Ala Arg Pro Thr Lys Ile Gln Ala Ile Asn Gly Ile Ser Leu His
 85 90 95
 Glu Leu Gln Pro Asp Val Ile Phe Pro His Asp Ser Leu Cys Gln Asn
 100 105 110
 Ala Leu Ser Leu Ala Leu Asn Leu Lys His Gly
 115 120

<210> 9690

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 9690

Phe Arg Cys Glu Ser Tyr Lys Leu Ala Glu Leu Ser Phe Arg Asn Val
 1 5 10 15
 Arg Asn Glu Ala Pro Met Lys Pro Arg Gln Arg Gln Ala Ala Ile Leu
 20 25 30
 Glu His Leu Gln Lys Gln Gly Lys Cys Ser Val Glu Asp Leu Ala His
 35 40 45
 Tyr Phe Asp Thr Thr Gly Thr Thr Ile Arg Lys Asp Leu Val Leu Leu
 50 55 60
 Glu Asn Ser Gly Ala Val Ile Arg Thr Tyr Gly Gly Val Val Leu Asn
 65 70 75 80
 Lys Asp Glu Ala Asp Pro Pro Ile Asp His Lys Thr Leu Ile Asn Thr
 85 90 95
 His Gln Lys Ala Leu Ile Ala Glu Ala Ala Val Lys Phe Ile His Asp
 100 105 110
 Gly Asp Ser Ile Ile Leu Asp Ala Gly Ser Thr Val Leu Gln Met Ile
 115 120 125
 Pro Leu Leu Ser Arg Phe Asn Asn Ile Thr Val Met Thr Asn Ser Leu
 130 135 140
 His Ile Val Asn Ala Leu Ser Glu Phe Asp Ser Glu Gln Thr Ile Leu
 145 150 155 160
 Met Pro Gly Gly Thr Phe Arg Lys Lys Ser Ala Ser Phe His Gly Gln
 165 170 175
 Leu Ala Glu Asn Ala Phe Asp His Phe Ser Phe Asp Lys Leu Phe Met
 180 185 190
 Gly Thr Asp Gly Ile Asp Leu Asn Ala Gly Val Thr Thr Phe Asn Glu
 195 200 205
 Val Phe Ser Val Ser Lys Ala Met Cys Asn Ala Ala Arg Glu Val Phe
 210 215 220
 Leu Met Ala Asp Ser Ser Lys Phe Gly Arg Lys Ser Pro Asn Ile Val
 225 230 235 240
 Cys Ser Leu Glu Ser Val Asp Lys Leu Ile Thr Asp Ala Gly Ile Asp
 245 250 255
 Pro Ala Phe Lys Lys Ala Leu Glu Ala Lys Gly Ile Asp Val Ile Val
 260 265 270
 Thr Gly Glu Lys Asn Glu
 275

<210> 9691

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 9691

Thr Gly Asn Gly Gly Lys Met Ser His Gly Ile Val Ile Ile Gly Ser
 1 5 10 15
 Gly Phe Ala Ala Arg Gln Leu Val Lys Asn Ile Arg Lys Gln Asp Ala
 20 25 30
 Asn Val Pro Leu Thr Val Ile Ala Ala Asp Ser Met Asp Glu Tyr Asn
 35 40 45
 Lys Pro Asp Leu Ser His Val Ile Ser Gln Asn Gln Arg Ala Asp Asp
 50 55 60
 Leu Thr Arg Gln Thr Ala Gly Glu Phe Ala Glu Gln Phe Asn Leu Arg
 65 70 75 80
 Leu Phe Pro Tyr Thr Trp Val Thr Asp Ile Asp Ala Asp Ala His Val
 85 90 95
 Val Asn Ala Lys Asp Lys Thr Trp His Tyr Asp Lys Leu Val Leu Ala
 100 105 110
 Thr Gly Ala Ser Ala Phe Val Pro Pro Val Glu Gly Arg Glu Leu Met
 115 120 125
 Val Thr Leu Asn Ser Gln Gln Glu Tyr Gln Ala Ser Glu Thr Leu Leu
 130 135 140
 Arg Asp Ala Thr Arg Val Met Ile Val Gly Gly Gly Leu Ile Gly Thr
 145 150 155 160
 Glu Leu Ala Met Asp Phe Cys Arg Ala Gly Lys Ser Val Thr Leu Val
 165 170 175
 Asp His Ala Ala Ser Ile Leu Ser Ala Leu Met Pro Ala Glu Val Ser
 180 185 190
 Ser Arg Leu Gln His Arg Leu Thr Asp Met Gly Val His Leu Leu Leu
 195 200 205
 Lys Ser Gln Leu Gln Ser Leu Ser Lys Thr Glu Thr Gly Ile Cys Ala
 210 215 220
 Thr Leu Asp Arg Asn Arg Ser Val Glu Val Asp Val Val Ile Ala Ala
 225 230 235 240
 Thr Gly Leu Arg Pro Glu Thr Ala Leu Ala His Arg Ala Gly Ala Glu
 245 250 255
 Ile Asn Arg Gly Val Lys Val Asp Ser Tyr Leu Gln Thr Thr Gln Pro
 260 265 270
 Asp Ile Tyr Ala Leu Gly Asp Cys Ala Glu Ile Asn Gly Gln Val Leu
 275 280 285
 Pro Phe Leu Gln Pro Ile Gln Leu Ser Ala Met Phe Leu Ala Lys Asn
 290 295 300
 Leu Leu Gly Gly Asn Ala Pro Val Lys Leu Pro Ala Met Leu Val Lys
 305 310 315 320
 Val Lys Thr Pro Glu Leu Pro Leu His Leu Ala Gly Glu Thr Gln Arg
 325 330 335
 Gln Asp Leu Asp Trp Gln Ile Ala Leu Ser Pro Gln Gly Met Val Ala
 340 345 350
 Arg Gly Thr Asp Thr Ala Gly Gln Met Arg Ala Phe Val Val Ser Glu
 355 360 365
 Asp Arg Met Lys Glu Ala Phe Ala Leu Leu Lys Ser Leu Pro Ala
 370 375 380

<210> 9692

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9692

His Pro Arg Arg Arg Ala Ala Ser Arg Ser Pro Pro Asp Thr Leu Pro
 1 5 10 15
 His Ala His Asp Asp Ala Ala Arg Ser Gln Arg Ala Ala Leu Ala Ser
 20 25 30
 Gly Pro Thr Val Gly Arg Asp Ile Pro Asp Gly His Arg Thr Pro His

35 40 45
 Ala Leu Ala Gly Lys Arg Arg Ser Pro Ala Ser Ser Arg Ala His Cys
 50 55 60
 Ala Thr Ala Pro Leu Arg Pro Arg Arg Ser Asp Arg Gln Asn Ala Gly
 65 70 75 80
 Ser Ala Pro Pro Gly Cys His Val Pro Gly Arg Arg Tyr Phe Ser Ser
 85 90 95
 Pro Arg Arg Cys Ile Thr Trp Ala Gly Cys Arg Gly Ile Arg Arg Ala
 100 105 110
 Met

<210> 9693

<211> 338

<212> PRT

<213> *Enterobacter cloacae*

<400> 9693

Ser Met Asn Thr Val Glu Met Ala His Gly Ser Gly Gly Gln Ala Met
 1 5 10 15
 Gln Gln Leu Ile Asn Arg Leu Phe Met Asp Ala Phe Asp Asn Pro Trp
 20 25 30
 Leu Ala Glu Gln Glu Asp Gln Ala Arg Ile Ala Leu Ser Thr Leu Thr
 35 40 45
 Ala His Gly Asp Arg Leu Ala Phe Ser Thr Asp Ser Tyr Val Ile Asp
 50 55 60
 Pro Leu Phe Phe Pro Gly Gly Asp Ile Gly Lys Leu Ala Val Cys Gly
 65 70 75 80
 Thr Ala Asn Asp Val Ala Val Ser Gly Ala Ile Pro Arg Tyr Leu Ser
 85 90 95
 Cys Gly Phe Ile Leu Glu Glu Gly Leu Pro Met Glu Thr Leu Thr Ala
 100 105 110
 Val Val Asn Ser Met Ala His Thr Ala Arg Glu Ala Gly Ile Ala Ile
 115 120 125
 Val Thr Gly Asp Thr Lys Val Val Gln Arg Gly Ala Ala Asp Lys Leu
 130 135 140
 Phe Ile Asn Thr Ala Gly Met Gly Ala Ile Pro Ala Asp Ile His Trp
 145 150 155 160
 Gly Ala Gln Gln Leu Cys Ala Gly Asp Val Leu Ile Val Ser Gly Thr
 165 170 175
 Leu Gly Cys His Gly Ala Thr Ile Leu Asn Leu Arg Glu Gly Leu Arg
 180 185 190
 Leu Asp Gly Glu Leu Arg Ser Asp Cys Ala Val Leu Thr Pro Leu Ile
 195 200 205
 Gln Thr Leu Arg Asp Met Pro Gly Val Lys Ala Leu Arg Asp Ala Thr
 210 215 220
 Arg Gly Gly Val Asn Ala Val Val His Glu Phe Ala Ala Ser Ser Gly
 225 230 235 240
 Cys Gly Ile Glu Leu Thr Glu Arg Gly Leu Pro Val Lys Gly Ala Val
 245 250 255
 Arg Gly Leu Cys Glu Leu Leu Gly Leu Asp Pro Leu Asn Phe Ala Asn
 260 265 270
 Glu Gly Lys Leu Val Ile Gly Val Glu Arg Thr Ala Ala Glu Ala Val
 275 280 285
 Leu Ala Gln Leu Arg Ala His Pro Leu Gly Lys Asp Ala Ala Ile Ile
 290 295 300
 Gly Asp Val Val Glu Arg Lys Gly Val Arg Leu Thr Gly Leu Tyr Gly
 305 310 315 320
 Val Lys Arg Thr Leu Asp Leu Pro His Ala Glu Pro Leu Pro Arg Ile
 325 330 335
 Cys

<210> 9694
 <211> 255
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9694

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Val Met Ser Ile Cys Ala Glu Lys Ile Thr Trp Lys Val Gly Lys Lys
1      5      10      15
Ile Ile Val Asn His Val Ser Leu Lys Val Ser Arg Gly Glu Thr Val
20      25      30
Gly Leu Leu Gly Pro Asn Gly Cys Gly Lys Ser Ser Leu Leu Arg Ile
35      40      45
Leu Ala Gly Leu Arg Arg Pro Asp Ala Gly Cys Val Thr Leu Asp Gly
50      55      60
Gln Asp Ile Ala Arg Ile Ala Lys Lys Gln Leu Ala Arg Arg Val Ala
65      70      75      80
Phe Val Glu Gln His Gly Met Thr Asp Ala Asn Met Arg Val Arg Asp
85      90      95
Val Val Lys Leu Gly Arg Ile Pro His His Ser Pro Phe Ser Asn Trp
100     105     110
Ser Ala Gln Asp Asp Glu Thr Val Thr Ala Ala Leu Gln Arg Val Asp
115     120     125
Met Leu Asp Arg Ser Glu Gln Gly Trp Leu Ser Leu Ser Gly Gly Glu
130     135     140
Arg Gln Arg Val His Ile Ala Arg Ala Leu Ala Gln Thr Pro Thr Glu
145     150     155     160
Ile Leu Leu Asp Glu Pro Thr Asn His Leu Asp Ile His His Gln Met
165     170     175
Gln Leu Met Gln Leu Ile Ser Glu Leu Pro Val Thr Ser Ile Val Ala
180     185     190
Ile His Asp Leu Asn His Ala Ser Met Phe Cys Asp Ser Leu Ile Val
195     200     205
Met Gln Gln Gly Gln Ile Val Ala Thr Gly Thr Pro Gln Glu Ile Leu
210     215     220
Ser Glu Glu Leu Leu Trp Asp Val Phe Arg Val Lys Thr Arg Ile Glu
225     230     235     240
Ile Ser Pro Tyr His Gly Lys Lys His Ile His Phe Ile Val
245     250     255

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<210> 9695
 <211> 410
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9695

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Val Lys Thr Met Pro Leu Arg Thr Ala Thr Thr Leu Trp Pro Pro Val
1      5      10      15
Leu Leu Gly Ser Gln Phe Val Phe Asn Ile Gly Phe Tyr Ala Val Val
20      25      30
Pro Phe Leu Ala Ile Phe Leu Arg Asp Asp Met Leu Leu Ser Gly Gly
35      40      45
Leu Ile Gly Leu Val Leu Gly Leu Arg Thr Phe Ser Gln Gln Gly Met
50      55      60
Phe Ile Val Gly Gly Ala Leu Ser Asp Arg Phe Gly Ala Lys Ser Val
65      70      75      80
Ile Leu Ser Gly Cys Ile Val Arg Val Val Gly Tyr Leu Leu Leu Ala
85      90      95
Phe Gly Gln Ser Leu Trp Pro Val Ile Leu Gly Ala Cys Leu Thr Gly
100     105     110

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Val Gly Gly Ala Leu Phe Ser Pro Ser Ile Glu Ala Leu Leu Ala Lys
 115 120 125
 Ala Gly Thr Gln Ser Glu Ala Lys Gly Lys Arg Ser Arg Ala Glu Trp
 130 135 140
 Phe Ala Leu Phe Ala Val Cys Gly Glu Leu Gly Ala Val Leu Gly Pro
 145 150 155 160
 Val Met Gly Ala Leu Leu Thr Gly Leu Gly Phe Arg Gln Val Ala Leu
 165 170 175
 Ala Gly Ala Gly Ile Phe Ile Val Ala Leu Val Val Leu Phe Phe Cys
 180 185 190
 Leu Pro Ala Ala His Arg Ser Thr Lys Pro Leu Lys Ile Leu Pro Trp
 195 200 205
 Trp Thr Thr Phe Arg Gln Pro Arg Phe Val Ala Phe Ile Ile Ala Tyr
 210 215 220
 Ser Ser Trp Leu Leu Ser Tyr Asn Gln Leu Tyr Leu Ala Leu Pro Val
 225 230 235 240
 Glu Ile Gln Arg Ala Gly Gly Asn Glu Lys Asp Leu Gly Pro Leu Phe
 245 250 255
 Met Leu Ala Ser Val Leu Ile Ile Val Leu Gln Leu Pro Leu Ala Arg
 260 265 270
 Phe Ala Arg Asn Val Gly Ala Val Arg Ile Leu Pro Val Gly Phe Leu
 275 280 285
 Leu Leu Ser Ala Ser Phe Ala Ser Val Ala Leu Phe Ala Ala Thr Glu
 290 295 300
 Pro Pro Glu Gly Trp Leu Arg Leu Leu Pro Ser Ala Ser Leu Val Thr
 305 310 315 320
 Leu Leu Thr Leu Gly Gln Met Leu Leu Val Pro Ser Ala Lys Asp Leu
 325 330 335
 Ile Pro Arg Phe Ala Glu Glu Ser Thr Leu Gly Ala His Tyr Gly Ala
 340 345 350
 Leu Ser Thr Ala Gly Gly Ile Ala Val Leu Val Gly Asn Leu Gly Leu
 355 360 365
 Gly Ser Leu Leu Asp Lys Ala Leu Val Pro Ser Thr Glu Ala Ile Tyr
 370 375 380
 Pro Trp Leu Leu Leu Ala Val Phe Pro Leu Cys Ser Ala Val Ala Leu
 385 390 395 400
 Ser Val Ile Cys Arg Pro Leu Arg Arg 410
 405

<210> 9696

<211> 861

<212> PRT

<213> Enterobacter cloacae

<400> 9696

Glu His Gly His Gln Asp Phe Met Ser Thr Leu Glu Asn Phe Asp Ala
 1 5 10 15
 His Thr Pro Met Met Gln Gln Tyr Leu Lys Leu Lys Ala Gln His Pro
 20 25 30
 Glu Ile Leu Leu Phe Tyr Arg Met Gly Asp Phe Tyr Glu Leu Phe Tyr
 35 40 45
 Asp Asp Ala Lys Arg Ala Ser Gln Leu Leu Asp Ile Ser Leu Thr Lys
 50 55 60
 Arg Gly Ala Ser Ala Gly Glu Pro Ile Pro Met Ala Gly Ile Pro His
 65 70 75 80
 His Ala Val Glu Asn Tyr Leu Ala Lys Leu Val Asn Gln Gly Glu Ser
 85 90 95
 Val Ala Ile Cys Glu Gln Ile Gly Asp Pro Ala Thr Ser Lys Gly Pro
 100 105 110
 Val Glu Arg Lys Val Val Arg Ile Val Thr Pro Gly Thr Ile Ser Asp
 115 120 125

Glu Ala Leu Leu Gln Glu Arg Gln Asp Asn Leu Leu Ala Ala Ile Trp
 130 135 140
 Gln Asp Gly Lys Gly Phe Gly Tyr Ala Thr Leu Asp Ile Ser Ser Gly
 145 150 155 160
 Arg Phe Arg Leu Ser Glu Pro Ala Asp Arg Glu Thr Met Ala Ala Glu
 165 170 175
 Leu Gln Arg Thr Asn Pro Ala Glu Leu Leu Tyr Ala Glu Asp Phe Ala
 180 185 190
 Glu Met Ala Leu Ile Glu Gly Arg Arg Gly Leu Arg Arg Pro Leu
 195 200 205
 Trp Glu Phe Glu Ile Asp Thr Ala Arg Gln Gln Leu Asn Leu Gln Phe
 210 215 220
 Gly Thr Arg Asp Leu Ile Gly Phe Gly Val Glu Asn Ala Pro Arg Gly
 225 230 235 240
 Leu Cys Ala Ala Gly Cys Leu Leu Gln Tyr Val Lys Asp Thr Gln Arg
 245 250 255
 Thr Ala Leu Pro His Ile Arg Ser Ile Thr Met Glu Arg Gln Gln Asp
 260 265 270
 Ser Ile Ile Met Asp Ala Ala Thr Arg Arg Asn Leu Glu Ile Thr Gln
 275 280 285
 Asn Leu Ala Gly Gly Met Glu Asn Thr Leu Ala Ser Val Leu Asp Ser
 290 295 300
 Thr Val Thr Pro Met Gly Ser Arg Met Leu Lys Arg Trp Leu His Met
 305 310 315 320
 Pro Ile Arg Asn Thr Glu Thr Leu Thr Gly Arg Gln Gln Thr Ile Ala
 325 330 335
 Ala Leu Gln Asp Arg Tyr Thr Glu Leu Gln Pro Val Leu Arg Gln Val
 340 345 350
 Gly Asp Leu Glu Arg Ile Leu Ala Arg Leu Ala Leu Arg Thr Ala Arg
 355 360 365
 Pro Arg Asp Leu Ala Arg Met Arg His Ala Phe Gln Gln Leu Pro Glu
 370 375 380
 Leu Arg Ala Gln Leu Gly Glu Ile Asp Ser Ala Pro Val Gln Lys Leu
 385 390 395 400
 Arg Glu Thr Met Gly Glu Phe Thr Glu Leu Arg Glu Leu Leu Glu Arg
 405 410 415
 Ala Ile Ile Asp Ala Pro Pro Val Leu Val Arg Asp Gly Gly Val Ile
 420 425 430
 Ala Pro Gly Tyr Asn Glu Glu Leu Asp Glu Trp Arg Ala Leu Ala Asp
 435 440 445
 Gly Ala Thr Asp Tyr Leu Asp Lys Leu Glu Ile Arg Glu Arg Glu Arg
 450 455 460
 Leu Gly Leu Asp Thr Leu Lys Val Gly Tyr Asn Ala Val His Gly Tyr
 465 470 475 480
 Tyr Ile Gln Ile Ser Arg Gly Gln Ser His Leu Ala Pro Ile His Tyr
 485 490 495
 Val Arg Arg Gln Thr Leu Lys Asn Ala Glu Arg Tyr Ile Ile Pro Glu
 500 505 510
 Leu Lys Glu Tyr Glu Asp Lys Val Leu Thr Ser Lys Gly Lys Ala Leu
 515 520 525
 Ala Leu Glu Lys Gln Leu Tyr Asp Glu Leu Phe Asp Ile Leu Met Pro
 530 535 540
 His Leu Ala Asp Leu Gln Leu Ser Ala Ala Ala Leu Ala Glu Leu Asp
 545 550 555 560
 Val Leu Val Asn Leu Ala Glu Arg Ala Asp Thr Leu Asn Tyr Thr Cys
 565 570 575
 Pro Thr Phe Thr Asp Lys Pro Gly Ile Arg Ile Thr Glu Gly Arg His
 580 585 590
 Pro Val Val Glu Gln Val Leu Asn Glu Pro Phe Ile Ala Asn Pro Leu
 595 600 605
 Asn Leu Ser Pro Gln Arg Arg Met Leu Ile Ile Thr Gly Pro Asn Met

610 615 620
 Gly Gly Lys Ser Thr Tyr Met Arg Gln Thr Ala Leu Ile Ala Leu Leu
 625 630 635 640
 Ala Tyr Ile Gly Ser Tyr Val Pro Ala Gln Lys Val Glu Ile Gly Pro
 645 650 655
 Ile Asp Arg Ile Phe Thr Arg Val Gly Ala Ala Asp Asp Leu Ala Ser
 660 665 670
 Gly Arg Ser Thr Phe Met Val Glu Met Thr Glu Thr Ala Asn Ile Leu
 675 680 685
 His Asn Ala Thr Glu Asn Ser Leu Val Leu Met Asp Glu Val Gly Arg
 690 695 700
 Gly Thr Ser Thr Tyr Asp Gly Leu Ser Leu Ala Trp Ala Cys Ala Glu
 705 710 715 720
 Ser Leu Ala Asn Lys Ile Lys Ala Leu Thr Leu Phe Ala Thr His Tyr
 725 730 735
 Phe Glu Leu Thr Gln Leu Pro Glu Lys Met Glu Gly Val Ala Asn Val
 740 745 750
 His Leu Asp Ala Leu Glu His Gly Asp Thr Ile Ala Phe Met His Thr
 755 760 765
 Val Gln Asp Gly Ala Ala Ser Lys Ser Tyr Gly Leu Ala Val Ala Ala
 770 775 780
 Leu Ala Gly Val Pro Lys Glu Val Ile Lys Arg Ala Arg Gln Lys Leu
 785 790 795 800
 Arg Glu Leu Glu Ser Leu Ser Pro Asn Ala Ala Thr Gln Ile Asp
 805 810 815
 Gly Thr Gln Met Ser Leu Leu Ala Val Pro Glu Glu Thr Ser Pro Ala
 820 825 830
 Val Glu Ala Leu Glu Asn Leu Asp Pro Asp Ser Leu Thr Pro Arg Gln
 835 840 845
 Ala Leu Glu Trp Ile Tyr Arg Leu Lys Ser Leu Val
 850 855 860

<210> 9697

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 9697

Phe Ser Ala Val Phe Cys Arg Val Ala Ala Ser Pro Tyr Pro Ala Tyr
 1 5 10 15
 Lys Thr Arg Arg Thr Gly Lys Arg Ser Ala Thr Gly Leu Phe Leu Gln
 20 25 30
 Gln Arg Arg Asp Arg Arg His Leu Arg Cys Phe Ile Asn Ile Leu Leu
 35 40 45
 Arg His Ala Glu Arg Phe Arg Val Met Leu Ala Ala Gly Thr Ala Gln
 50 55 60
 Arg Phe Gly Ile Ala Pro Gly Ile Gln Thr Val Leu Thr Leu Ile Tyr
 65 70 75 80
 Arg Pro Asp Thr Phe His Arg
 85

<210> 9698

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 9698

Thr Lys Thr Asn Ala Leu Gln Glu Arg Arg Met Ile Glu Thr Ile Thr
 1 5 10 15
 His Gly Ala Glu Trp Phe Ile Gly Leu Phe Gln Lys Gly Gly Glu Val
 20 25 30

Phe Thr Gly Met Val Thr Gly Ile Leu Pro Leu Leu Ile Ser Leu Leu
 35 40 45
 Val Ile Met Asn Ala Leu Ile Asn Phe Ile Gly Gln Gln Arg Ile Glu
 50 55 60
 Arg Phe Ala Gln Arg Cys Ala Gly Asn Pro Leu Ser Arg Tyr Leu Ile
 65 70 75 80
 Leu Pro Phe Ile Gly Thr Phe Val Phe Cys Asn Pro Met Thr Leu Ser
 85 90 95
 Leu Gly Arg Phe Met Pro Glu Lys Tyr Lys Pro Ser Tyr Tyr Ala Ala
 100 105 110
 Ala Ser Tyr Ser Cys His Ser Met Asn Gly Leu Phe Pro His Ile Asn
 115 120 125
 Pro Gly Glu Leu Phe Val Tyr Leu Gly Ile Ala Ser Gly Leu Thr Thr
 130 135 140
 Leu Gly Leu Pro Leu Gly Pro Leu Ala Val Ser Tyr Leu Leu Val Gly
 145 150 155 160
 Leu Val Thr Asn Phe Phe Arg Gly Trp Val Thr Asp Leu Thr Thr Ala
 165 170 175
 Ile Phe Glu Lys Lys Met Gly Ile Gln Leu Glu Gln Lys Val His Leu
 180 185 190
 Ser Gly Ala Thr Ala
 195

<210> 9699

<211> 326

<212> PRT

<213> *Enterobacter cloacae*

<400> 9699

Pro Glu Arg Lys Met Ser Asp Phe Leu Leu Asn Ala Gly Arg Gln Thr
 1 5 10 15
 Leu Leu Leu Glu Leu Gln Glu Ala Ser Arg Leu Pro Glu Arg Leu Gly
 20 25 30
 Glu Asp Phe Val Arg Ala Ala Asn Thr Ile Ile His Cys Glu Gly Lys
 35 40 45
 Val Ile Val Ala Gly Ile Gly Lys Ser Gly His Ile Gly Lys Lys Ile
 50 55 60
 Ala Ala Thr Leu Ala Ser Thr Gly Thr Pro Ala Phe Phe Val His Pro
 65 70 75 80
 Ala Glu Ala Leu His Gly Asp Leu Gly Met Ile Glu Ser Arg Asp Val
 85 90 95
 Met Leu Phe Ile Ser Tyr Ser Gly Ser Ala Lys Glu Leu Asp Leu Ile
 100 105 110
 Ile Pro Arg Leu Gln Glu Lys Ser Val Ala Leu Leu Ala Met Thr Gly
 115 120 125
 Lys Ser Arg Ser Pro Leu Ala Leu Ala Ala Lys Ala Thr Leu Asp Ile
 130 135 140
 Ser Val Glu Arg Glu Ala Cys Pro Met His Leu Ala Pro Thr Ser Ser
 145 150 155 160
 Thr Val Asn Thr Leu Met Met Gly Asp Ala Leu Ala Met Ala Val Met
 165 170 175
 Gln Ala Arg Gly Phe Asn Glu Glu Asp Phe Ala Arg Ser His Pro Ala
 180 185 190
 Gly Ala Leu Gly Ala Arg Leu Leu Asn Lys Val His His Leu Met Arg
 195 200 205
 Thr Asp Asp Ala Ile Pro Gln Val Lys Leu Asp Thr Ser Val Met Asp
 210 215 220
 Ala Met Leu Glu Leu Ser Arg Thr Gly Leu Gly Leu Val Ala Val Cys
 225 230 235 240
 Asp Asn Asp Arg Gln Val Lys Gly Val Phe Thr Asp Gly Asp Leu Arg
 245 250 255

Arg Trp Leu Val Gly Gly Gly Lys Leu Glu Ala Arg Val Ser Glu Ala Ala
 260 265 270
 Met Thr Gln Gly Gly Leu Thr Leu Asn Ala Asp Ser Arg Ala Ile Glu
 275 280 285
 Ala Lys Glu Val Leu Met Lys Arg Lys Ile Thr Ala Ala Pro Val Val
 290 295 300
 Asp Glu His Gly Arg Leu Cys Gly Ala Ile Asn Leu Gln Asp Phe Tyr
 305 310 315 320
 Gln Ala Gly Ile Ile
 325

<210> 9700

<211> 487

<212> PRT

<213> Enterobacter cloacae

<400> 9700

Val Glu Val Ala Met Ser Ile Leu Val Lys Asn Asn Ile His Trp Val
 1 5 10 15
 Gly Gln Arg Asp Trp Glu Val Arg Asp Phe His Gly Thr Glu Tyr Lys
 20 25 30
 Thr Leu Arg Gly Ser Ser Tyr Asn Ser Tyr Leu Ile Arg Glu Gly Lys
 35 40 45
 Asn Val Leu Ile Asp Thr Val Asp His Lys Phe Ser Arg Glu Phe Val
 50 55 60
 Gln Asn Leu Arg Ser Glu Ile Asp Leu Asn Glu Ile Asp Tyr Ile Ile
 65 70 75 80
 Ile Asn His Ala Glu Glu Asp His Ala Gly Ala Leu Thr Glu Leu Met
 85 90 95
 Ser His Ile Pro Asp Thr Pro Ile Tyr Cys Thr Thr Asn Ala Ile Asp
 100 105 110
 Ser Ile Asn Gly His His His His Pro Glu Trp Asn Phe His Thr Val
 115 120 125
 Lys Thr Gly Asp Thr Leu Asp Ile Gly Asn Gly Lys Gln Leu Ile Phe
 130 135 140
 Val Glu Thr Pro Met Leu His Trp Pro Asp Ser Met Met Thr Tyr Met
 145 150 155 160
 Thr Gly Asp Ala Val Leu Phe Ser Asn Asp Ala Phe Gly Gln His Tyr
 165 170 175
 Cys Asp Glu Arg Leu Phe Asn Asp Glu Val Asp Gln Thr Glu Leu Phe
 180 185 190
 Glu Gln Cys Gln Arg Tyr Tyr Ala Asn Ile Leu Thr Pro Phe Ser Arg
 195 200 205
 Leu Val Thr Pro Lys Ile Thr Glu Ile Leu Gly Phe Asn Leu Pro Val
 210 215 220
 Asp Met Ile Ala Thr Ser His Gly Val Val Trp Arg Glu Asn Pro Thr
 225 230 235 240
 Gln Ile Val Glu Leu Tyr Leu Lys Trp Ala Ala Asp Tyr Gln Glu Asp
 245 250 255
 Arg Ile Thr Ile Phe Tyr Asp Thr Met Ser Asn Asn Thr Arg Met Met
 260 265 270
 Ala Asp Ala Ile Ala Gln Gly Ile Asn Glu Val Asp Pro Asn Val Ala
 275 280 285
 Val Lys Ile Phe Asn Val Ala Arg Ser Asp Lys Asn Glu Val Leu Thr
 290 295 300
 Asn Val Phe Arg Ser Lys Gly Val Leu Val Gly Thr Ser Thr Met Asn
 305 310 315 320
 Asn Val Met Met Pro Lys Ile Ala Gly Leu Val Glu Glu Met Thr Gly
 325 330 335
 Leu Arg Phe Arg Asn Lys Arg Ala Ser Ala Phe Gly Ser His Gly Trp
 340 345 350

Ser Gly Gly Ala Val Asp Arg Leu Ser Thr Arg Leu Gln Asp Ala Gly
 355 360 365
 Phe Glu Met Ser Leu Ser Leu Lys Ala Lys Trp Arg Pro Asp Leu Asp
 370 375 380
 Ala Leu Glu Ile Cys Arg Gln His Gly Arg Asp Ile Ala Arg Gln Trp
 385 390 395 400
 Ala Leu Ala Pro Leu Pro Glu Thr Ala Pro Ala Ala Val Ala Pro
 405 410 415
 Glu Ala Val Ala Glu Ala Ala Pro Ala Ala Asp Leu Gly Pro Cys
 420 425 430
 Met Gln Cys Ser Val Cys Gln Trp Ile Tyr Asp Pro Glu Leu Gly Glu
 435 440 445
 Pro Leu Gln Asp Val Ala Pro Gly Thr Pro Trp Ser Glu Val Pro Asp
 450 455 460
 Asn Phe Leu Cys Pro Glu Cys Ser Leu Gly Lys Asp Val Phe Asp Glu
 465 470 475 480
 Leu Ala Thr Glu Ala Lys
 485

<210> 9701

<211> 499

<212> PRT

<213> Enterobacter cloacae

<400> 9701

Asn Arg Phe Pro Thr Leu Leu Thr Thr Ile Thr Gly Ser His Pro Met
 1 5 10 15
 Ala Lys Asn Tyr Ala Ala Leu Ala Asn Asp Val Val Ser Ala Leu Gly
 20 25 30
 Gly Lys Glu Asn Ile Val Ala Val Thr His Cys Met Thr Arg Leu Arg
 35 40 45
 Phe Val Leu Lys Asp Glu Ser Leu Thr Asp Thr Ala Arg Leu Lys Ser
 50 55 60
 Ile Ser Gly Val Leu Gly Val Val Arg Asn Asp Asn Gln Cys Gln Val
 65 70 75 80
 Ile Ile Gly Asn Thr Val Ser Gln Ala Tyr Arg Glu Val Val Ser Leu
 85 90 95
 Leu Pro Ala Asn Leu Gln Pro Ala Val Ala Glu Gly Pro Gln Lys Leu
 100 105 110
 Thr Leu Arg Arg Ile Gly Ala Gly Ile Leu Asp Ala Leu Ile Gly Thr
 115 120 125
 Met Ser Pro Leu Ile Pro Ala Ile Ile Gly Glu Ser Met Val Lys Leu
 130 135 140
 Leu Ala Met Ile Leu Glu Met Thr Gly Val Leu Gly Lys Gly Asp Pro
 145 150 155 160
 Thr Leu Thr Ile Leu Thr Val Ile Gly Asp Gly Ala Phe Phe Phe Leu
 165 170 175
 Pro Leu Met Val Ala Ala Ser Ala Ala Val Lys Phe Lys Thr Asn Met
 180 185 190
 Ser Leu Ala Ile Ala Ile Ala Gly Val Leu Val His Pro Ser Phe Ile
 195 200 205
 Glu Leu Met Ala Lys Ala Ala Gln Gly Glu His Val Glu Phe Ala Phe
 210 215 220
 Ile Pro Val Thr Ala Val Lys Tyr Thr Tyr Thr Val Ile Pro Ala Leu
 225 230 235 240
 Val Met Thr Trp Cys Leu Ser Tyr Ile Glu Arg Trp Val Asp Arg Ile
 245 250 255
 Thr Pro Ala Val Thr Lys Asn Phe Leu Lys Pro Met Leu Ile Val Leu
 260 265 270
 Ile Ala Ala Pro Leu Ala Ile Val Leu Ile Gly Pro Leu Gly Ile Trp
 275 280 285

Ile Gly Ser Ala Ile Ser Ala Leu Val Tyr Thr Ile His Gly Tyr Leu
 290 295 300
 Gly Trp Leu Ser Val Ala Ile Met Gly Ala Leu Trp Pro Leu Leu Val
 305 310 315 320
 Met Thr Gly Met His Arg Val Phe Thr Pro Thr Ile Ile Gln Thr Ile
 325 330 335
 Ala Glu Thr Gly Lys Glu Gly Met Val Met Pro Ser Glu Ile Gly Ala
 340 345 350
 Asn Leu Ser Leu Gly Gly Ser Ser Leu Ala Val Ala Trp Lys Thr Lys
 355 360 365
 Asn Pro Glu Leu Arg Gln Thr Ala Leu Ala Ala Ala Ser Ala Ile
 370 375 380
 Met Ala Gly Ile Ser Glu Pro Ala Leu Tyr Gly Val Ala Val Arg Leu
 385 390 395 400
 Lys Arg Pro Leu Ile Ala Ser Leu Ile Ser Gly Phe Ile Cys Gly Ala
 405 410 415
 Val Ala Gly Met Ala Gly Leu Ala Ser His Ser Met Ala Ala Pro Gly
 420 425 430
 Leu Phe Thr Ser Val Gln Phe Phe Asp Pro Ala Asn Pro Met Thr Ile
 435 440 445
 Val Trp Val Phe Gly Val Met Gly Leu Ala Val Val Leu Ser Phe Val
 450 455 460
 Leu Thr Leu Leu Leu Gly Phe Glu Asp Ile Pro Val Glu Asp Glu Ala
 465 470 475 480
 Glu Lys Ala Arg Ala Leu Gln Thr Ala Pro Val Gln Asn Lys Ala Ala
 485 490 495
 Glu Ala

<210> 9702

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 9702

Thr Glu Ser Glu Val Arg Met Ser Val Phe Pro Gln Gly Phe Leu Trp
 1 5 10 15
 Gly Gly Ala Leu Ala Ala Asn Gln Ser Glu Gly Ala Tyr Arg Glu Gly
 20 25 30
 Gly Lys Gly Leu Thr Thr Val Asp Met Ile Pro His Gly Ala Asn Arg
 35 40 45
 Leu Ala Val Lys Val Gly Lys Glu Lys Arg Phe Ser Leu Arg Asp Asp
 50 55 60
 Glu Phe Tyr Pro Ser His Glu Ala Ile Asp Phe Tyr His Arg Tyr Lys
 65 70 75 80
 Glu Asp Ile Ala Leu Met Ala Glu Met Gly Phe Thr Val Phe Arg Thr
 85 90 95
 Ser Ile Ala Trp Ser Arg Leu Tyr Pro Asn Gly Asp Glu Pro Leu Pro
 100 105 110
 Asn Gln Glu Gly Ile Ala Phe Tyr Arg Ala Val Phe Glu Glu Cys Lys
 115 120 125
 Lys Tyr Asn Ile Glu Pro Leu Val Thr Leu Cys His Phe Asp Val Pro
 130 135 140
 Met His Leu Val Thr Glu Tyr Gly Ser Trp Arg Asn Arg Lys Met Val
 145 150 155 160
 Asp Phe Phe Ala Arg Tyr Ala Arg Thr Cys Phe Glu Ala Phe Asn Gly
 165 170 175
 Leu Val Lys Tyr Trp Leu Thr Phe Asn Glu Ile Asn Ile Met Leu His
 180 185 190
 Ser Pro Phe Ser Gly Ala Gly Leu Val Phe Glu Glu Gly Glu Asn Glu
 195 200 205


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Asp Gln Val Lys Tyr Gln Ala Ala His His Glu Leu Val Ala Ser Ala
210 215
Leu Ala Thr Lys Ile Ala His Glu Val Asn Pro Glu Asn Gln Val Gly
225 230 235 240
Cys Met Leu Ala Gly Gly Asn Phe Tyr Pro Tyr Ser Cys Lys Pro Glu
245 250 255
Asp Val Trp Met Ala Leu Glu Lys Asp Arg Glu Asn Leu Phe Phe Ile
260 265 270
Asp Val Gln Ala Arg Gly Ser Tyr Pro Ala Tyr Ser Ala Arg Val Phe
275 280 285
Arg Glu Lys Gly Val Val Ile Val Lys Asp Pro Gly Asp Asp Glu Leu
290 295 300
Leu Lys Asn Thr Val Asp Phe Val Ser Phe Ser Tyr Tyr Ala Ser Arg
305 310 315 320
Cys Ala Ser Ala Asp Met Asn Ala Gly Asn Thr Ser Ala Ala Asn Ile
325 330 335
Val Lys Ser Leu Arg Asn Pro His Ile Gln Val Ser Glu Trp Gly Trp
340 345 350
Gly Ile Asp Pro Leu Gly Leu Arg Ile Thr Met Asn Met Met Tyr Asp
355 360 365
Arg Tyr Gln Lys Pro Leu Phe Leu Val Glu Asn Gly Leu Gly Ala Lys
370 375 380
Asp Val Val Asp Glu Asn Gly Glu Ile Asn Asp Asp Tyr Arg Ile Ser
385 390 395 400
Tyr Leu Arg Glu His Ile Arg Ala Met Gly Asp Ala Ile Glu Asp Gly
405 410 415
Val Pro Leu Leu Gly Tyr Thr Thr Trp Gly Cys Ile Asp Leu Val Ser
420 425 430
Ala Ser Thr Gly Glu Met Ser Lys Arg Tyr Gly Phe Val Tyr Val Asp
435 440 445
Arg Asp Asp Ala Gly Asn Gly Thr Leu Glu Arg Lys Arg Lys Lys Ser
450 455 460
Phe Gly Trp Tyr Lys Lys Val Ile Ala Ser Asn Gly Gly Asp Leu Glu
465 470 475 480

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<210> 9703

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 9703

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Ser Ser Pro Gln Ser Ala Thr Pro Arg Pro Thr Thr Ala Ala Asp
1 5 10 15
Arg Pro Ser Gly Leu Ser Ser Gly Cys Arg Lys Asp Arg Pro Ser Ser
20 25 30
Pro Arg Trp Arg Thr Ala Gln Arg Pro Gly Leu Arg His Trp His Ala
35 40 45
Pro Ala Ala Pro Ser Arg Ala Ala Gly Leu Ser Arg Pro Ala Gly Gln
50 55 60
Asn Arg Leu Arg Pro Thr Ala Arg Arg Arg Cys Pro Ala Ala Gly Arg
65 70 75 80

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<210> 9704

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9704

Asp Pro Ala Gly Phe Arg His Ala Arg Arg Arg Asp Gly Arg Leu Ala
 1 5 10 15
 Glu Leu Ala Gly Glu Arg Thr Met Cys Ile Gly Val Pro Gly Gln Ile
 20 25 30
 His Ser Ile Asp Gly Asn Gln Ala Lys Val Glu Val Cys Gly Ile Leu
 35 40 45
 Arg Asp Val Asp Leu Thr Leu Val Gly Ser His Asp Glu Thr Gly Ala
 50 55 60
 Ser Arg Leu Gly Gln Trp Val Leu Val His Val Gly Phe Ala Met Ser
 65 70 75 80
 Val Ile Asn Glu Glu Glu Ala Arg Asp Thr Leu Asp Ala Leu Gln Asn
 85 90 95
 Met Phe Asp Val Glu Pro Asp Val Gly Ala Leu Leu Tyr Gly Glu Glu
 100 105 110
 Arg

<210> 9705

<211> 375

<212> PRT

<213> *Enterobacter cloacae*

<400> 9705

His Met Arg Tyr Val Asp Glu Tyr Arg Ala Pro Glu Gln Val Leu Gln
 1 5 10 15
 Leu Ile Asp Arg Leu Lys Ser Arg Ala Ser Leu Leu Asp Tyr Thr Lys
 20 25 30
 Glu Lys Pro Leu Arg Ile Met Glu Val Cys Gly Gly His Thr His Ala
 35 40 45
 Ile Phe Lys Phe Gly Leu Asp Gln Leu Leu Pro Glu Asn Ile Glu Phe
 50 55 60
 Ile His Gly Pro Gly Cys Pro Val Cys Val Leu Pro Met Gly Arg Ile
 65 70 75 80
 Asp Ser Cys Leu Asp Ile Ala Ser Arg Pro Gly Val Ile Phe Cys Thr
 85 90 95
 Phe Gly Asp Ala Met Arg Val Pro Gly Lys Asn Gly Ser Leu Leu Gln
 100 105 110
 Ala Lys Ala Arg Gly Ala Asp Val Arg Ile Val Tyr Ser Pro Met Asp
 115 120 125
 Ala Leu Thr Leu Ala Met Ala Asn Pro Glu Arg Lys Val Val Phe Phe
 130 135 140
 Gly Leu Gly Phe Glu Thr Thr Met Pro Ala Thr Ala Ile Thr Leu Gln
 145 150 155 160
 Gln Ala Lys Ala Arg Asn Val Thr Asn Phe Tyr Phe Phe Cys Gln His
 165 170 175
 Ile Thr Leu Ile Pro Thr Leu Arg Ser Leu Leu Glu Ala Pro Asp Asn
 180 185 190
 Gly Ile Asp Ala Phe Leu Ala Pro Gly His Val Ser Met Val Ile Gly
 195 200 205
 Thr Glu Ala Tyr Gly Phe Ile Ala Glu Gln Tyr Asn Arg Pro Leu Val
 210 215 220
 Val Ala Gly Phe Glu Pro Leu Asp Leu Leu Gln Gly Val Thr Met Leu
 225 230 235 240
 Val Glu Gln Lys Ile Ala Ala Leu Ser Ala Val Glu Asn Gln Tyr Arg
 245 250 255
 Arg Val Val Pro Asp Ala Gly Asn Arg Arg Ala Gln Glu Ala Ile Ala
 260 265 270
 Asp Val Phe Ser Val Glu Gly Asp Ser Glu Trp Arg Gly Leu Gly Leu
 275 280 285
 Ile Ala Glu Ser Gly Val His Leu Thr Pro Ala Tyr Arg Ala Phe Asp

290 295 300
 Ala Glu Ala His Phe Arg Pro Gln Pro Gln Gln Val Cys Asp Asp Pro
 305 310 315 320
 Arg Ala Arg Cys Gly Asp Val Leu Thr Gly Lys Cys Lys Pro His His
 325 330 335
 Cys Pro Leu Phe Gly Asn Ala Cys Asn Pro Gln Thr Ala Phe Gly Ala
 340 345 350
 Leu Met Val Ser Ser Glu Gly Ala Cys Ala Ala Trp Tyr His Tyr Arg
 355 360 365
 Asn Gln Glu Cys Glu Ala
 370 375

<210> 9706

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 9706

Arg Leu Met Lys Lys Val Leu Cys Ala Leu Gly Leu Ala Val Ala Ser
 1 5 10 15
 Met Ser Thr Ala Leu Ala Thr Thr Tyr Pro Leu Thr Ile Glu Asn Cys
 20 25 30
 Gly Tyr Lys Glu Thr Phe Thr Lys Ala Pro Glu Arg Val Val Ala Leu
 35 40 45
 Gly Gln Asn Thr Val Glu Ile Leu Leu Leu Gly Leu Glu Asp Lys
 50 55 60
 Val Lys Ala Ser Ala Phe Trp Pro Thr Lys Val Leu Pro Gln Leu Ala
 65 70 75 80
 Glu Gln Asn Ala Lys Ile Lys Thr Leu Thr Val Glu Ile Pro Thr Leu
 85 90 95
 Glu Ser Ile Leu Ala Gln Asn Pro Asp Phe Val Pro Ala Gln Leu Pro
 100 105 110
 Leu Leu Leu Gly Pro Glu Ser Lys Val Ala Lys Arg Glu Asp Leu Ala
 115 120 125
 Thr Val Gly Val Asn Ser Tyr Leu Ser Pro Gly Met Cys Ala Thr Lys
 130 135 140
 Lys Ala Ala Gly Asp Met Tyr Gly Ser Arg Gln Thr Leu Trp Asp Met
 145 150 155 160
 Thr Tyr Leu Tyr Gln Glu Ile Glu Asp Phe Ala Lys Ile Phe Asn Val
 165 170 175
 Glu Ala Arg Gly Gln Ala Val Ile Ala Asp Phe Lys Lys Arg Glu Ala
 180 185 190
 Asp Leu Arg Gln Glu Phe Gly Lys Asn Asn Lys Asp Leu Ser Phe Val
 195 200 205
 Phe Trp Phe Ser Ser Ser Ser Pro Ser Ala Asp Ala Tyr Val Gly Gly
 210 215 220
 Lys Asn Ser Ala Ser Gly Phe Ile Ala Asn Val Leu Gly Gly His Asn
 225 230 235 240
 Ala Ile Thr Ser Glu, Thr Glu Trp Pro Thr Val Gly Trp Glu Ser Ile
 245 250 255
 Ile Ala Ala Asn Pro Asp Val Ile Val Val Ser Ser Leu Asp Arg Asn
 260 265 270
 Arg Trp Ala Leu Asp Asn Ala Glu Glu Lys Ile Lys Phe Leu Lys Ser
 275 280 285
 Asp Pro Ala Val Ser Gln Met Glu Ala Val Lys Lys Gly His Ile Val
 290 295 300
 Val Met Asp Gly Gln Ala Met Asn Pro Thr Ile Arg Thr Leu Tyr Gly
 305 310 315 320
 Ala Glu Gln Val Gly Glu Gln Ile Arg Lys Leu Gly Leu Asp
 325 330 335

<210> 9707

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 9707

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Arg Met His Trp Arg Asn Leu Thr Cys Ser Ala Cys Arg Arg Glu Arg
1          5          10          15
Gln Pro Gly Arg Cys Gln Ser Ser Tyr Trp Val Ser Ala Pro Gly Ala
20          25          30
Val Ser Leu Ser Ala Gly Ala Phe Ala Gly Ala Phe Ala Phe Ala
35          40          45
Phe Val Ala Phe Leu Thr Asn Gly Ala Arg Gly Gly Asn Glu Arg Thr
50          55          60
Ile Leu Ala Gly Val Ala Ala Ser Gln Leu Phe Asn Ala Ile Thr Ala
65          70          75          80
Tyr Thr Ile Ser Thr Ser Ala Ser Ala Gln Gln Ala Arg Asp Val Met
85          90          95
Phe Trp Leu Leu Gly Ser Phe Ser Gly Val Arg Trp Pro Glu Phe Gln
100         105         110
Leu Ala Leu Val Val Val Leu Ala Gly Leu Ala Val Cys Leu Tyr Tyr
115         120         125
Ser Arg Ala Leu Asp Ala Phe Thr Phe Gly Asp Asp Ala Ala Ala Ser
130         135         140
Leu Gly Ile Ala Val Pro Trp Val Arg Leu Ala Leu Phe Thr Thr Thr
145         150         155         160
Ala Leu Ile Thr Ala Thr Ile Val Ser Met Ala Gly Ser Ile Gly Phe
165         170         175
Val Gly Leu Val Val Pro His Val Met Arg Phe Leu Phe Gly Pro Leu
180         185         190
His Arg Thr Leu Leu Ile Ala Ser Ala Leu Ala Gly Ala Ile Leu Met
195         200         205
Val Leu Ala Asp Ile Ala Ser Arg Met Leu Ile Ala Pro Gln Ser Leu
210         215         220
Pro Val Gly Val Val Thr Ala Leu Val Gly Val Pro Phe Phe Ala Val
225         230         235         240
Ile Ile Tyr Arg Ser Arg Asn Lys
245

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<210> 9708

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 9708

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Arg Glu Tyr Phe Ser Val Gly Val Ser Met Glu Leu Arg Gln Glu Ala
1          5          10          15
Phe His Leu Leu Arg Gln Leu Phe Gln Gln His Thr Ala Gln Trp Gln
20          25          30
His Ala Leu Pro Glu Leu Thr Lys Pro Gln Tyr Ala Val Met Arg Ser
35          40          45
Ile Ala Glu Asn Pro Gly Ile Glu Gln Val Ala Leu Thr Glu Val Ala
50          55          60
Val Ser Thr Lys Ala Thr Leu Ala Glu Met Leu Ser Arg Met Glu Ala
65          70          75          80
Arg Gly Leu Val Arg Arg Glu His Asp Pro Ala Asp Lys Arg Arg Arg
85          90          95
Phe Val Phe Leu Thr Ala Glu Gly Glu Ala Leu Leu Glu Ser Ser Lys
100         105         110
Pro Ile Gly Asn Glu Val Asp Glu Ala Phe Leu Gly Arg Leu Asn Gly
115         120         125

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Ala Glu Arg Glu Gln Phe Ser Ala Leu Ile Lys Lys Met Met Gln Gly
 130 135 140

145

<210> 9709

<211> 472

<212> PRT

<213> *Enterobacter cloacae*

<400> 9709

Lys Leu Thr Thr Ala Phe Val Ser Pro Ile Ala Ser Ala Ala Val
 1 5 10 15
 Lys Leu Pro Val Ser Ala Thr Ala Ile Asn Ile Ala Val Arg Cys Lys
 20 25 30
 Leu Ser Ile Ala Cys Leu Val Asn Cys Gln Asn Asn Val Asp Ser Ile
 35 40 45
 Ser Cys Phe Val Ala Phe Ile Arg Asn Val Arg Ala Asp Thr Ile Arg
 50 55 60
 His Leu Thr Gly Gly Thr Ser Met Thr Tyr Arg Ser Lys Ile Ala Val
 65 70 75 80
 Val Phe Leu Leu Gly Phe Phe Leu Asp Leu Ile Asn Met Phe Ile Ala
 85 90 95
 Ser Val Ala Phe Pro Ala Met Ala Arg Ala Phe Asn Thr Thr Pro Ser
 100 105 110
 Ala Leu Ala Trp Val Ser Asn Gly Tyr Ile Ala Gly Leu Thr Leu Val
 115 120 125
 Ile Pro Phe Ser Ser Ile Leu Thr Arg Arg Val Gly Pro Lys Arg Val
 130 135 140
 Ile Leu Leu Ser Leu Leu Leu Phe Ser Ala Ala Ser Val Ala Ala Gly
 145 150 155 160
 Leu Ser Ser Ser Leu Glu Ser Leu Ile Ala Trp Arg Val Val Gln Gly
 165 170 175
 Ala Gly Gly Gly Leu Leu Ile Pro Val Gly Gln Ala Leu Thr Trp Gln
 180 185 190
 Gln Phe Lys Pro His Glu Arg Ala Arg Leu Ser Ser Ala Val Met Leu
 195 200 205
 Val Ala Leu Leu Ala Pro Ala Cys Ser Pro Ala Val Gly Met Leu
 210 215 220
 Val Gln Thr Phe Ser Trp Arg Trp Ile Phe Phe Ala Thr Leu Pro Val
 225 230 235 240
 Val Ile Val Thr Phe Ala Leu Ala Cys Ala Trp Leu Lys Thr Glu Pro
 245 250 255
 Ser Pro Ile Thr Pro Thr Arg Thr Val Asn Leu Ser Leu Leu Thr Asp
 260 265 270
 Pro Leu Leu Arg Leu Ser Met Leu Ile Tyr Val Cys Val Pro Gly Ile
 275 280 285
 Phe Ile Gly Val Asn Val Thr Gly Met Tyr Tyr Leu Gln Ser Glu Ala
 290 295 300
 Asn Met Thr Pro Ala Ala Thr Gly Met Leu Met Leu Pro Trp Ser Val
 305 310 315 320
 Ala Ser Phe Leu Ala Ile Thr Ala Thr Gly Arg Tyr Phe Asn Arg Ile
 325 330 335
 Gly Pro Arg Pro Leu Val Val Ile Gly Cys Leu Leu Gln Ala Thr Gly
 340 345 350
 Ile Leu Leu Leu Val Asn Val Gly Pro Ala Met Leu Leu Pro Ala Val
 355 360 365
 Ala Phe Ala Leu Met Gly Ala Gly Gly Ser Leu Cys Ser Ser Thr Ala
 370 375 380
 Gln Ser Ser Ala Phe Leu Thr Met Arg Pro Glu Asp Met Pro Asp Ala
 385 390 395 400

Ser Ala Leu Trp Asn Leu Asn Arg Gln Leu Ser Phe Phe Ala Gly Ala
 405 410
 Leu Leu Leu Ala Gln Ala Leu Ser Phe Met Gln Ala Tyr Leu Ser Pro
 420 425 430
 Leu Ala Ala Trp His Gly Met Phe Val Phe Ala Ala Val Ile Thr Leu
 435 440 445
 Leu Pro Val Leu Tyr Val Tyr Arg Leu Asn Asn Thr Gln Leu Leu Ala
 450 455 460
 Gln Leu Gln Gln Glu Gln Pro
 465 470

<210> 9710

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 9710

Asn Cys Ser Leu Met Thr Ser Arg Pro Val Ala Leu Arg Leu Pro Gly
 1 5 10 15
 Leu Arg Leu Arg His Thr Thr Met Lys Ile Val Ile Ala Pro Asp Ser
 20 25 30
 Tyr Lys Glu Ser Leu Ser Ala Thr Glu Val Ala Gln Ala Ile Glu Lys
 35 40 45
 Gly Phe Arg Glu Ile Phe Pro Asp Ala His Tyr Val Ser Val Pro Val
 50 55 60
 Ala Asp Gly Gly Glu Gly Thr Val Glu Ala Met Ile Ala Ala Thr Gln
 65 70 75 80
 Gly Thr Trp Gln Gln Ala Val Val Thr Gly Pro Leu Gly Glu Lys Val
 85 90 95
 Lys Ala Ser Trp Gly Ile Ser Gly Asp Gly Thr Thr Ala Phe Ile Glu
 100 105 110
 Met Ala Ala Ala Ser Gly Leu Val Leu Val Pro Pro Ala Gln Arg Asn
 115 120 125
 Pro Leu Val Thr Thr Ser Arg Gly Thr Gly Glu Leu Ile Leu Arg Ala
 130 135 140
 Leu Asp Lys Gly Ala Arg Asn Ile Ile Ile Gly Ile Gly Gly Ser Ala
 145 150 155 160
 Thr Asn Asp Gly Gly Ala Gly Met Met Gln Ala Leu Gly Ala Lys Phe
 165 170 175
 Thr Asp Ala Asn Gly Thr Glu Ile Gly Tyr Gly Gly Gly Ser Leu Met
 180 185 190
 Ala Leu Asn Arg Ile Asp Ile Ser Asp Leu Asp Pro Arg Leu Gln Gly
 195 200 205
 Cys Ala Ile Arg Val Ala Cys Asp Val Thr Asn Pro Leu Val Gly Glu
 210 215 220
 Ser Gly Ala Ser Arg Ile Phe Gly Pro Gln Lys Gly Ala Thr Glu Glu
 225 230 235 240
 Met Ile Leu Glu Leu Asp Ala Ser Leu Ser His Tyr Ala Glu Val Ile
 245 250 255
 Lys Lys Thr Leu Arg Ile Asp Val Asn Arg Val Pro Gly Ala Gly Ala
 260 265 270
 Ala Gly Gly Met Gly Ala Ala Leu Met Ala Phe Leu Gly Ala Glu Leu
 275 280 285
 Lys Ser Gly Ile Glu Ile Val Thr Gln Ala Leu Asn Leu Glu Glu His
 290 295 300
 Ile His Asp Cys Thr Trp Val Leu Thr Gly Glu Gly Arg Ile Asp Ser
 305 310 315 320
 Gln Ser Ile Asn Gly Lys Val Pro Val Gly Val Ala Ser Val Ala Lys
 325 330 335
 Lys Tyr His Lys Pro Val Ile Gly Ile Ala Gly Ser Leu Thr Gln Asp
 340 345 350

Val Gly Val Val His Gln Tyr Gly Ile Asp Ala Val Phe Ser Val Leu
 355 360 365
 Thr Arg Ile Gly Ser Leu Glu Glu Ala Phe Gln Gly Ala Tyr Asp Asn
 370 375 380
 Ile Tyr Arg Ala Ser Arg Asn Ile Ala Ala Thr Leu Gln Val Gly Met
 385 390 395 400
 Arg Ser Gln Gly
 405

<210> 9711

<211> 479

<212> PRT

<213> *Enterobacter cloacae*

<400> 9711

Ser Pro His Ile Asn Asn Ser His Leu His Leu Leu Thr Arg Asn Arg
 1 5 10 15
 Trp Arg Ser Glu Ser Tyr Lys Asn Asn Gln Leu Pro Tyr Lys Ile Ser
 20 25 30
 Glu Cys Pro Met Asn Met Ala Thr Asn Ser Ser Val Ile Val Ser Asp
 35 40 45
 Ser Pro Ala Ala Arg Arg Ala Gly Met Ser Glu Ser Glu Trp Arg Glu
 50 55 60
 Ala Ile Lys Phe Asp Ser Thr Asp Thr Gly Trp Val Ile Met Ser Ile
 65 70 75 80
 Gly Met Ala Ile Gly Ala Gly Ile Val Phe Leu Pro Val Gln Val Gly
 85 90 95
 Leu Met Gly Leu Trp Val Phe Leu Leu Ser Ser Ile Ile Gly Tyr Pro
 100 105 110
 Ala Met Tyr Leu Phe Gln Arg Leu Phe Ile Asn Thr Leu Ala Glu Ser
 115 120 125
 Pro Glu Cys Lys Asp Tyr Pro Ser Val Ile Ser Gly Tyr Leu Gly Lys
 130 135 140
 Asn Trp Gly Ile Leu Leu Gly Ala Leu Tyr Phe Val Met Leu Val Ile
 145 150 155 160
 Trp Met Phe Val Tyr Ser Thr Ala Ile Thr Asn Asp Ser Ala Ser Tyr
 165 170 175
 Leu His Thr Phe Gly Val Thr Asp Gly Leu Ser Glu Asn Pro Phe
 180 185 190
 Tyr Gly Leu Phe Leu Ile Cys Ile Leu Val Ala Ile Ser Ser Arg Gly
 195 200 205
 Glu Lys Leu Leu Phe Lys Val Ser Ser Leu Met Val Leu Thr Lys Leu
 210 215 220
 Phe Val Val Ala Ala Leu Gly Leu Ser Met Ile Gly Leu Trp His Leu
 225 230 235 240
 Ala Asn Val Gly Met Leu Pro Pro Met Gly Leu Leu Ile Lys Asn Ala
 245 250 255
 Ile Ile Thr Leu Pro Phe Thr Leu Thr Ser Ile Leu Phe Ile Gln Thr
 260 265 270
 Leu Ser Pro Met Val Ile Ser Tyr Arg Ser Arg Glu Lys Ser Val Glu
 275 280 285
 Val Ala Arg His Lys Ala Leu Arg Ala Met Asn Ile Ala Phe Gly Val
 290 295 300
 Leu Phe Val Thr Val Phe Phe Tyr Ala Val Ser Phe Thr Leu Ala Met
 305 310 315 320
 Gly His Asp Glu Ala Val Lys Ala Tyr Glu Gln Asn Ile Ser Ala Leu
 325 330 335
 Ala Ile Ala Ala Gln Phe Ile Ser Gly Asp Gly Ala Gly Trp Val Lys
 340 345 350
 Ile Val Ser Val Ile Leu Asn Ile Phe Ala Val Met Thr Ala Phe Phe
 355 360 365

Gly Val Tyr Leu Gly Phe Arg Glu Ala Thr Gln Gly Ile Val Met Asn
 370 375 380
 Ile Leu Arg Arg Lys Met Pro Ala Glu Lys Ile Asn Glu Asn Ala Val
 385 390 395 400
 Gln Arg Gly Ile Met Leu Phe Ala Ile Leu Leu Ala Trp Ser Ala Ile
 405 410 415
 Val Leu Asn Ala Pro Val Leu Ser Phe Thr Ser Ile Cys Ser Pro Ile
 420 425 430
 Phe Gly Met Val Gly Cys Leu Ile Pro Ala Trp Leu Val Tyr Lys Val
 435 440 445
 Pro Ala Leu His Lys Tyr Lys Gly Val Ser Leu Val Ile Ile Val Ile
 450 455 460
 Thr Gly Leu Leu Leu Cys Val Ser Pro Phe Leu Ala Phe Ser
 465 470 475

<210> 9712

<211> 505

<212> PRT

<213> Enterobacter cloacae

<400> 9712

Thr Glu Leu Arg Pro Phe Glu Val Asp Met Gln Tyr Ile Lys Ile His
 1 5 10 15
 Ser Leu Asp Asn Val Ala Val Ala Leu Ala Asp Leu Ala Glu Gly Thr
 20 25 30
 Glu Val Thr Phe Asp Asn Gln Ser Val Thr Leu Arg Gln Ala Ile Gly
 35 40 45
 Arg Gly His Lys Phe Ala Leu Ile Pro Ile Ala Lys Gly Glu Asn Val
 50 55 60
 Val Lys Tyr Gly Leu Pro Ile Gly His Ala Leu Ala Asp Ile Ala Pro
 65 70 75 80
 Gly Glu Tyr Ile His Ser His Asn Thr Arg Thr Asn Leu Ser Asp Leu
 85 90 95
 Asp Glu Tyr Ser Gln Pro Asp Phe Gln Ala Glu Glu Gly Gln Ala
 100 105 110
 Ala Asp Arg Glu Val Gln Ile Tyr Arg Arg Ala Ser Gly Glu Val Gly
 115 120 125
 Ile Arg Asn Glu Leu Trp Ile Leu Pro Thr Val Gly Cys Val Asn Gly
 130 135 140
 Ile Ala Arg Gln Ile Gln Thr Arg Phe Leu Lys Glu Thr Asn Asn Ala
 145 150 155 160
 Glu Gly Thr Asp Gly Val His Leu Phe Ser His Thr Tyr Gly Cys Ser
 165 170 175
 Gln Leu Gly Asp Asp His Ile Asn Thr Arg Thr Met Leu Gln Asn Met
 180 185 190
 Val Arg His Pro Asn Ala Gly Ala Val Leu Val Ile Gly Leu Gly Cys
 195 200 205
 Glu Asn Asn Gln Val Asp Ala Phe Arg Asp Thr Leu Gly Glu Phe Asp
 210 215 220
 Pro Glu Arg Val His Phe Met Val Cys Gln His Gln Asp Asp Glu Val
 225 230 235 240
 Glu Ala Gly Val Glu Gln Leu His Gln Leu Tyr Glu Val Met Arg His
 245 250 255
 Asp Lys Arg Glu Pro Gly Lys Leu Ser Glu Leu Lys Phe Gly Leu Glu
 260 265 270
 Cys Gly Gly Ser Asp Gly Leu Ser Gly Ile Thr Ala Asn Pro Met Leu
 275 280 285
 Gly Arg Phe Ser Asp Tyr Val Ile Ala Asn Gly Gly Thr Thr Val Leu
 290 295 300
 Thr Glu Val Pro Glu Met Phe Gly Ala Glu Arg Ile Leu Met Ser His
 305 310 315 320

Cys Arg Asp Glu Glu Thr Phe Glu Lys Thr Val Thr Met Val Asn Asp
 325 330 335
 Phe Lys Gln Tyr Phe Ile Ala His Asn Gln Pro Ile Tyr Glu Asn Pro
 340 345 350
 Ser Pro Gly Asn Lys Ala Gly Gly Ile Thr Thr Leu Glu Glu Lys Ser
 355 360 365
 Leu Gly Cys Thr Gln Lys Ala Gly Ala Ser Gln Val Val Asp Val Leu
 370 375 380
 Arg Tyr Gly Glu Arg Leu Lys Thr His Gly Leu Asn Leu Leu Ser Ala
 385 390 395 400
 Pro Gly Asn Asp Ala Val Ala Thr Ser Ala Leu Ala Gly Ala Gly Cys
 405 410 415
 His Met Val Leu Phe Ser Thr Gly Arg Gly Thr Pro Tyr Gly Gly Phe
 420 425 430
 Val Pro Thr Val Lys Ile Ala Thr Asn Ser Glu Leu Ala Ala Lys Lys
 435 440 445
 Lys His Trp Ile Asp Phe Asp Ala Gly Gln Leu Ile His Gly Lys Ala
 450 455 460
 Met Pro Gln Leu Leu Thr Glu Phe Val Asp Thr Ile Val Glu Phe Ala
 465 470 475 480
 Asn Gly Arg Gln Thr Cys Asn Glu Lys Asn Asp Phe Arg Glu Leu Ala
 485 490 495
 Ile Phe Lys Ser Gly Val Thr Leu
 500 505

<210> 9713

<211> 465

<212> PRT

<213> Enterobacter cloacae

<400> 9713

Asp Thr Gly Phe Ser Asp Pro Ala Tyr Thr Ala Arg Gly Leu Cys Gln
 1 5 10 15
 Ser Arg Asn His Ala Cys Pro Gly Ser Val Phe Pro Ala Pro His Arg
 20 25 30
 Ala Phe Pro Arg Gln Ser Gly His Glu Pro Gly Lys Val Asn Ala Pro
 35 40 45
 Asp Ser Pro Gly Asp Lys Ser Ala Gly Ser Ser Lys Pro Gln Asn Ser
 50 55 60
 Val Lys Thr Gly Ile Leu Thr His Pro Phe Gln Gly Tyr Ala Lys Phe
 65 70 75 80
 Tyr His Ser Gly Gly Pro Met Ser His Leu Asp Asn Gly Phe Arg Ser
 85 90 95
 Leu Asn Leu Lys Arg Phe Pro Glu Thr Asp Asp Val Asn Pro Leu Gln
 100 105 110
 Ala Trp Glu Ala Ala Asp Glu Tyr Leu Leu Gln Gln Leu Asp Glu Thr
 115 120 125
 Glu Ile Ser Gly Pro Val Leu Ile Leu Asn Asp Ala Phe Gly Ala Leu
 130 135 140
 Ala Cys Ala Leu Ala Glu His Ala Pro Tyr Ser Ile Gly Asp Ser Tyr
 145 150 155 160
 Leu Ser Glu Leu Ala Thr Arg Glu Asn Leu Arg His Asn Asp Ile Glu
 165 170 175
 Glu Ser Ser Val Lys Phe Leu Asp Ser Thr Ala Asp Tyr Pro Gln Ala
 180 185 190
 Pro Gly Val Val Leu Ile Lys Val Pro Lys Thr Met Ala Leu Leu Glu
 195 200 205
 Gln Gln Leu Arg Ala Leu Arg Lys Val Val Thr Pro Glu Thr Arg Ile
 210 215 220
 Ile Ala Gly Ala Lys Ala Arg Asp Ile His Thr Ser Thr Leu Glu Leu
 225 230 235 240

Phe Glu Lys Val Leu Gly Pro Thr Thr Thr Thr Leu Ala Trp Lys Lys
 245 250 255
 Ala Arg Leu Ile Asn Cys Thr Phe Ser Ala Pro Ala Leu Ala Asp Ala
 260 265 270
 Pro Glu Thr Leu Ser Trp Lys Leu Glu Gly Thr Asp Trp Thr Ile His
 275 280 285
 Asn His Ala Asn Val Phe Ser Arg Thr Gly Leu Asp Ile Gly Ala Arg
 290 295 300
 Phe Phe Met Glu His Leu Pro Glu Asn Leu Glu Gly Glu Ile Val Asp
 305 310 315 320
 Leu Gly Cys Gly Asn Gly Val Ile Gly Leu Thr Leu Leu Ala Lys Asn
 325 330 335
 Pro Glu Ala Ser Val Val Phe Ser Asp Glu Ser Pro Met Ala Val Ala
 340 345 350
 Ser Ser Arg Leu Asn Val Glu Thr Asn Leu Pro Glu Ala Leu Asp Arg
 355 360 365
 Cys Glu Phe Met Ile Asn Asn Ala Leu Ser Gly Val Glu Pro Phe Arg
 370 375 380
 Phe Asn Ala Val Phe Cys Asn Pro Pro Phe His Gln Lys His Ala Leu
 385 390 395 400
 Thr Asp Asn Val Ala Trp Glu Met Phe His His Ala Arg Arg Cys Leu
 405 410 415
 Lys Ile Asn Gly Glu Leu Tyr Ile Val Ala Asn Arg His Leu Asp Tyr
 420 425 430
 Phe His Lys Leu Lys Lys Ile Phe Gly Asn Cys Val Thr Ile Ala Thr
 435 440 445
 Asn Asn Lys Phe Val Val Leu Lys Ser Val Lys Leu Gly Arg Arg Arg
 450 455 460

465

<210> 9714

<211> 313

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (313)

<400> 9714

Val Ser Arg Pro Arg Gly Ser Gly Ala Gly Asn Ala Ser Gly Arg Ala
 1 5 10 15
 Gln Arg Arg Ala Ala Ala Pro Arg Arg Gln Pro Arg Pro Asp Asp Gly
 20 25 30
 Ala Gly Val Trp Arg Ala Ile Met Lys Ile Leu Leu Lys Asn Arg Glu
 35 40 45
 Leu Ser Ala Phe Leu Ala Ile Leu Ala Leu Phe Ala Val Leu Val Ala
 50 55 60
 Leu Asn Pro Ser Tyr Ser Leu Gln Thr Leu Gly Met Ile Phe Ala
 65 70 75 80
 Ser Ala Gln Ile Leu Ile Leu Leu Ala Ile Gly Ala Ala Leu Val Met
 85 90 95
 Leu Thr Arg Asn Ile Asp Val Ser Val Gly Ser Thr Val Gly Leu Ser
 100 105 110
 Ala Ile Ala Val Gly Val Ala Leu Asn Ser Gly Tyr Ser Leu Pro Val
 115 120 125
 Ser Ile Leu Phe Ala Leu Ser Ile Gly Ala Leu Ala Gly Ala Phe Asn
 130 135 140
 Gly Phe Leu Val Val Gly Leu Arg Ile Pro Ala Ile Val Ala Thr Leu
 145 150 155 160

Gly Thr Leu Gly Leu Tyr Arg Gly Ala Met Leu Leu Trp Thr Gly Gly
 165 170 175
 Lys Trp Ile Glu Gly Leu Pro Pro Gly Leu Lys Ser Leu Ser Glu Pro
 180 185 190
 Ala Ala Val Gly Ile Ser Pro Leu Gly Met Leu Val Leu Ile Ile Ala
 195 200 205
 Ala Thr Gly Ala Trp Thr Leu Ser Arg Thr Ala Phe Gly Arg Ile Phe
 210 215 220
 Tyr Ala Val Gly Asp Asn Leu Ala Ala Ala Arg Gln Leu Gly Val Ala
 225 230 235 240
 Val Asn Arg Thr Arg Met Ile Ala Phe Thr Leu Asn Gly Leu Leu Ala
 245 250 255
 Ala Cys Ala Gly Ile Val Phe Ala Ala Gln Ile Gly Phe Val Pro Asn
 260 265 270
 Gln Thr Gly Ser Gly Leu Glu Met Lys Ala Ile Ala Ala Leu Arg Ala
 275 280 285
 Gly Gly His Leu Ala Ala Gly Arg His Arg His Ala Asp Leu Ile Gln
 290 295 300
 Pro Pro Gly Trp Lys Asp Gln Arg Xaa
 305 310

<210> 9715

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 9715

Val Met Ser Asn Asp Ile Phe Pro Asn Lys Phe Lys Ala Ala Leu Ala
 1 5 10 15
 Ala His Gln Ile Gln Ile Gly Cys Trp Ser Ala Leu Ala Asn Pro Ile
 20 25 30
 Ser Thr Glu Val Leu Gly Leu Ala Gly Phe Asp Trp Leu Val Leu Asp
 35 40 45
 Gly Glu His Ala Pro Asn Asp Ile Asn Thr Phe Ile Pro Gln Leu Met
 50 55 60
 Ala Leu Lys Gly Ser His Ser Ala Pro Val Val Arg Val Pro Thr Asn
 65 70 75 80
 Glu Pro Val Ile Ile Lys Arg Leu Leu Asp Ile Gly Phe Tyr Asn Phe
 85 90 95
 Leu Ile Pro Phe Val Glu Thr Glu Glu Ala Val Gln Ala Val Ala
 100 105 110
 Ala Thr Arg Tyr Pro Pro Glu Gly Ile Arg Gly Val Ser Val Ser His
 115 120 125
 Arg Ala Asn Met Phe Gly Thr Val Pro Asp Tyr Phe Ser Gln Ser Asn
 130 135 140
 Lys Asn Ile Thr Ile Leu Val Gln Ile Glu Ser Gln Gln Gly Val Asp
 145 150 155 160
 Asn Val Asp Ala Ile Ala Ala Thr Glu Gly Val Asp Gly Ile Phe Val
 165 170 175
 Gly Pro Ser Asp Leu Ala Ala Ala Phe Gly His Leu Gly Asn Ala Ser
 180 185 190
 His Pro Asp Val Gln Arg Ala Ile Gln His Ile Phe Ala Arg Ala Lys
 195 200 205
 Ala His Gly Lys Pro Cys Gly Ile Leu Ala Pro Val Glu Ala Asp Ala
 210 215 220
 Arg Arg Tyr Leu Glu Trp Gly Ala Thr Phe Val Ala Val Gly Ser Asp
 225 230 235 240
 Leu Gly Val Phe Arg Ala Ala Thr Gln Lys Leu Ala Asp Ala Phe Lys
 245 250 255

Lys

<210> 9716
 <211> 304
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9716
 Pro Ser Leu Arg Lys Gln Ile Met Thr Leu Lys Val Gly Phe Ile Gly
 1 5 10 15
 Leu Gly Ile Met Gly Lys Pro Met Ser Lys Asn Leu Ile Lys Ala Gly
 20 25 30
 Tyr Ser Leu Val Val Leu Asp Arg Asn Ser Asp Ala Val Ala Glu Val
 35 40 45
 Ile Ala Ala Gly Ala Glu Thr Ala Thr Thr Ala Lys Ala Ile Ala Glu
 50 55 60
 Gln Cys Asp Val Ile Ile Thr Met Leu Pro Asn Ser Pro His Val Lys
 65 70 75 80
 Glu Val Ala Leu Gly Glu Asn Gly Ile Ile Asp Gly Ala Lys Pro Gly
 85 90 95
 Leu Val Val Ile Asp Met Ser Ser Ile Ala Pro Leu Ala Ser Arg Glu
 100 105 110
 Ile Ser Glu Glu Leu Lys Ala Lys Gly Val Glu Met Leu Asp Ala Pro
 115 120 125
 Val Ser Gly Gly Glu Pro Lys Ala Ile Asp Gly Thr Leu Ser Val Met
 130 135 140
 Val Gly Gly Asp Lys Ala Val Phe Asp Lys Tyr Tyr Asp Leu Met Lys
 145 150 155 160
 Ala Met Ala Gly Ser Val Val His Thr Gly Glu Ile Gly Ala Gly Asn
 165 170 175
 Val Thr Lys Leu Ala Asn Gln Val Ile Val Ala Leu Asn Ile Ala Ala
 180 185 190
 Met Ser Glu Ala Leu Thr Leu Ala Thr Lys Ala Gly Val Asn Pro Asp
 195 200 205
 Leu Val Tyr Gln Ala Ile Arg Gly Gly Leu Ala Gly Ser Thr Val Leu
 210 215 220
 Asp Ala Lys Ala Pro Met Val Met Asp Arg Asn Phe Arg Pro Gly Phe
 225 230 235 240
 Arg Ile Asp Leu His Ile Lys Asp Leu Ala Asn Ala Leu Asp Thr Ser
 245 250 255
 His Gly Val Gly Ala Gln Leu Pro Leu Thr Ala Ala Val Met Glu Met
 260 265 270
 Met Gln Ala Leu Arg Ala Asp Gly Leu Gly Thr Ala Asp His Ser Ala
 275 280 285
 Leu Ala Cys Tyr Tyr Glu Lys Leu Ala Lys Val Glu Ile Ala Arg
 290 295 300

<210> 9717
 <211> 311
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9717
 Ala Gln Asn Ile Met Asn Thr Ile Ile Leu Pro Lys Thr Gln His Leu
 1 5 10 15
 Val Val Phe Gln Glu Val Ile Lys Ser Gly Ser Ile Gly Ser Ala Ala
 20 25 30
 Arg Gln Leu Gly Leu Thr Gln Pro Ala Val Ser Lys Ile Ile Ser Asp
 35 40 45
 Ile Glu Ser Tyr Phe Gly Val Glu Val Met Val Arg Lys Asn Thr Gly
 50 55 60
 Val Lys Leu Thr Ala Ala Gly Gln Val Leu Leu Ser Tyr Ala Glu Ser

```

65          70          75          80
Ile Thr Arg Glu Met Lys Asn Met Val Ser Glu Ile Asn Ser Leu Ser
85
Phe Ser Thr Val Met Asp Val Ser Phe Gly Tyr Pro Ser Leu Ile Gly
100
Phe Thr Phe Leu Ser Gly Met Ile Lys Lys Phe Lys Glu Val Phe Pro
115
Lys Ala Arg Val Ser Met Tyr Glu Ala Gln Leu Ser Ser Phe Leu Pro
130
Ala Ile Arg Asp Gly Arg Leu Asp Phe Ala Ile Gly Thr Leu Ser Asp
145
Gly Met Gln Leu Gln Asp Leu His Val Glu Pro Leu Phe Glu Ser Glu
165
Phe Val Leu Val Ala Ser Lys Ser Arg Thr Cys Thr Gly Pro Thr Arg
180
Leu Ala Ser Leu Thr His Glu Gln Trp Val Met Pro Gln Thr Asp Met
195
Gly Tyr Tyr Asn Glu Leu Leu Thr Thr Leu Gln Asp Asn His Ile Ser
210
Ile Glu Asn Ile Val Gln Thr Asp Ser Val Val Thr Ile Tyr Asn Leu
225
Val Leu Asn Ala Asp Tyr Leu Thr Val Ile Pro Arg Asp Met Ile Ala
245
Pro Phe Gly Ser Asp Gln Phe Ile Val Leu Pro Val Glu Asp Glu Leu
260
Pro Val Ala Arg Tyr Ala Ala Val Trp Ser Lys Asn Tyr Ser Ile Lys
275
Lys Ser Ala Ser Val Leu Val Glu Leu Ala Lys Gln Tyr Ser Ser Met
290
Asn Thr Glu Lys Arg Arg
305
          310

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<210> 9718

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 9718

```

Leu Cys Leu Lys Thr Met Asn Tyr Tyr Asn Glu Asp Ile Met His Ile
1          5          10          15
Thr Tyr Asp Leu Pro Val Thr Ile Glu Asp Ile Gln Asp Ala Arg Lys
20
Arg Leu Ala Gly Lys Ile Tyr Lys Thr Gly Met Pro Arg Ser Asn Tyr
35
Leu Ser Glu Arg Cys Lys Gly Glu Ile Phe Leu Lys Phe Glu Asn Met
50
Gln Arg Thr Gly Ser Phe Lys Ile Arg Gly Ala Phe Asn Lys Leu Ser
65
Ser Leu Thr Asp Ala Glu Lys Arg Lys Gly Val Val Ala Cys Ser Ala
85
Gly Asn His Ala Gln Gly Val Ser Leu Ser Cys Ala Met Leu Gly Ile
100
Asp Gly Lys Val Val Met Pro Met Gly Ala Pro Lys Ser Lys Val Ala
115
Ala Thr Arg Asp Tyr Ser Ala Glu Val Val Leu His Gly Glu Asn Phe
130
Asn Asp Thr Ile Ala Lys Val Ser Glu Ile Val Glu Met Glu Gly Arg
145
Ile Phe Ile Pro Pro Tyr Asp Asp Pro Lys Val Ile Ala Gly Gln Gly
165
Thr Ile Gly Leu Glu Ile Leu Glu Asp Leu Tyr Asp Val Asp Asn Val
175

```

```

      180              185              190
Ile Val Pro Ile Gly Gly Gly Gly Leu Ile Ala Gly Ile Ala Thr Ala
      195              200              205
Ile Lys Ser Ile Asn Pro Thr Ile Asn Ile Ile Gly Val Gln Ser Glu
      210              215              220
Asn Val His Gly Met Ala Ala Ser Tyr Gln Ala Gly Glu Ile Thr Asn
      225              230              235
His Arg Ile Thr Gly Thr Leu Ala Asp Gly Cys Asp Val Ser Arg Pro
      245              250              255
Gly Asn Leu Thr Phe Glu Ile Val Arg Glu Leu Val Asp Asp Ile Val
      260              265              270
Leu Val Ser Glu Asp Glu Ile Arg Asn Ser Met Ile Ala Leu Ile Gln
      275              280              285
Arg Asn Lys Val Val Thr Glu Gly Ala Gly Ala Leu Ala Cys Ala Ala
      290              295              300
Leu Leu Ser Gly Lys Leu Asp His Tyr Ile Gln Gly Arg Lys Thr Val
      305              310              315
Cys Ile Ile Ser Gly Gly Asn Ile Asp Leu Ser Arg Val Ser Gln Ile
      325              330              335
Thr Gly Phe Val Asp Ala
      340

```

<210> 9719

<211> 503

<212> PRT

<213> Enterobacter cloacae

<400> 9719

```

Leu Thr Lys Lys Thr Ser Asp Ser Gly Asn Trp Cys Asp Asn Phe Ala
1      5      10      15
Ala Ser Glu His Lys Leu Ser Asp Ala Pro Val Met Arg Lys Thr Ile
      20      25      30
Met Thr Pro Phe Met Thr Asp Asp Phe Leu Leu Asp Thr Glu Phe Ala
      35      40      45
Arg Arg Leu Tyr His Asp Tyr Ala Lys Asp Gln Pro Ile Phe Asp Tyr
      50      55      60
His Cys His Leu Pro Pro Gln Gln Val Ala Glu Asn Tyr Arg Phe Lys
      65      70      75      80
Asn Leu Tyr Asp Ile Trp Leu Lys Gly Asp His Tyr Lys Trp Arg Ala
      85      90      95
Met Arg Thr Asn Gly Val Ala Glu Arg Leu Cys Thr Gly Asp Ala Thr
      100      105      110
Asp Arg Glu Lys Phe Asp Ala Trp Ala Ala Thr Val Pro His Thr Ile
      115      120      125
Gly Asn Pro Leu Tyr His Trp Thr His Leu Glu Leu Arg Arg Pro Phe
      130      135      140
Gly Ile Thr Gly Lys Leu Leu Ser Pro Ala Thr Ala Asp Glu Ile Trp
      145      150      155      160
Asp Gln Cys Asn Asp Leu Leu Ala Gln Asp Ser Phe Ser Ala Arg Gly
      165      170      175
Ile Met Lys Gln Met Asn Val Lys Met Val Gly Thr Thr Asp Asp Pro
      180      185      190
Val Asp Ser Leu Glu His His Ala Val Val Ala Lys Asp Ser Thr Phe
      195      200      205
Asp Ile Lys Val Leu Pro Ser Trp Arg Pro Asp Lys Ala Phe Asn Ile
      210      215      220
Glu Leu Pro Thr Phe Asn Asp Tyr Met Ala Lys Leu Ala Glu Val Ser
      225      230      235      240
Asp Thr Asp Ile Arg Arg Phe Gly Asp Leu Gln Thr Ala Leu Thr Lys
      245      250      255
Arg Leu Asp His Phe Ala Ala His Gly Cys Lys Val Ser Asp His Ala

```

260 265 270
 Leu Asp Val Val Leu Phe Ala Glu Ser Ser Glu Ala Glu Leu Asp Ser
 275 280 285
 Ile Leu Ala Arg Arg Leu Ser Gly Glu Ala Leu Ser Glu His Glu Val
 290 295 300
 Ala Gln Phe Lys Thr Ala Val Leu Val Phe Leu Gly Ala Glu Tyr Ala
 305 310 315 320
 Arg Arg Gly Trp Val Gln Gln Tyr His Ile Gly Ala Leu Arg Asn Asn
 325 330 335
 Asn Gln Arg Gln Phe Lys Leu Leu Gly Ala Asp Val Gly Phe Asp Ser
 340 345 350
 Ile Asn Asp Arg Pro Met Ala Glu Glu Leu Ser Lys Leu Leu Ser Lys
 355 360 365
 Gln Asn Glu Gln Asn Leu Leu Pro Lys Thr Ile Leu Tyr Cys Leu Asn
 370 375 380
 Pro Arg Asp Asn Glu Val Leu Gly Thr Met Ile Gly Asn Phe Gln Gly
 385 390 395 400
 Glu Gly Met Pro Gly Lys Met Gln Phe Gly Ser Gly Trp Trp Phe Asn
 405 410 415
 Asp Gln Lys Asp Gly Met Glu Arg Gln Met Thr Gln Leu Ala Gln Leu
 420 425 430
 Gly Leu Leu Ser Arg Phe Val Gly Met Leu Thr Asp Ser Arg Ser Phe
 435 440 445
 Leu Ser Tyr Thr Arg His Glu Tyr Phe Arg Arg Ile Leu Cys Gln Met
 450 455 460
 Ile Gly Arg Trp Val His Ala Gly Glu Ala Pro Ala Asp Ile Gln Leu
 465 470 475 480
 Leu Gly Glu Met Val Arg Asn Ile Cys Phe Asn Asn Ala Arg Asp Tyr
 485 490 495
 Phe Ala Ile Glu Leu Asn
 500

<210> 9720

<211> 525

<212> PRT

<213> Enterobacter cloacae

<400> 9720

Ser Leu His Gly Cys Lys Tyr Ser Ser Pro Ser Thr Leu Leu Asn Ile
 1 5 10 15
 Ile Lys Ser Lys Asn His Leu Phe Asn Ser Gly Ala Met Met Thr Pro
 20 25 30
 Leu Leu Asp Ala Arg Asp Ile Ser Lys Gln Phe Ser Gly Val Pro Val
 35 40 45
 Leu Lys Gly Ile Asp Phe Thr Leu Leu Ala Gly Gln Val His Ala Leu
 50 55 60
 Met Gly Gly Asn Gly Ala Gly Lys Ser Thr Leu Met Lys Ile Ile Ala
 65 70 75 80
 Gly Val Glu Thr Pro Asp Cys Gly Glu Leu Ser Val Ala Gly Glu Ser
 85 90 95
 Phe Thr Arg Leu Thr Pro Ala Gln Ala His Arg Leu Gly Ile Tyr Leu
 100 105 110
 Val Pro Gln Glu Pro Leu Leu Phe Pro Asn Leu Thr Val Arg Glu Asn
 115 120 125
 Ile Leu Phe Arg Leu Pro Arg Glu Arg Asp Arg Glu Lys Arg Leu Ala
 130 135 140
 Glu Lys Leu Arg Gln Leu Gln Cys Gln Leu Asn Leu Asp Ala Thr Ala
 145 150 155 160
 Ser Thr Leu Glu Val Ala Asp Gln Gln Met Val Glu Ile Leu Arg Gly
 165 170 175
 Leu Met Arg Asn Ala Arg Ile Leu Ile Leu Asp Glu Pro Thr Ala Ser

```

180
Leu Thr Pro Gly Glu Thr Glu Arg 185
195 200
Gln Asp Leu Gly Val Gly Ile Val Phe Ile Ser His 205
210 215 220
Ile Arg Gln Leu Ala Ser His Val Ser Val Met Arg Asp Gly Ala Val
225 230 235 240
Val Leu Ser Gly Glu Thr Ala Gln Phe Asp Asp Asn Ala Leu Ile Ala
245 250 255
Ala Met Thr Pro Val Ser Arg Glu Thr Ser Leu Ser Asp Thr Gln Lys
260 265 270
Leu Trp Leu Ala Leu Pro Gly Asn Arg Arg Thr Gln Ala Gln Asp Phe
275 280 285
Pro Val Leu Arg Val Glu Asp Leu Thr Gly Glu Gly Phe Ile Asp Leu
290 295 300
Ser Leu Glu Ile Tyr Ala Gly Glu Ile Val Gly Leu Ala Gly Leu Val
305 310 315 320
Gly Ser Gly Arg Thr Glu Phe Ala Glu Thr Leu Tyr Gly Leu Arg Pro
325 330 335
Val Arg Gly Gly Arg Val Trp Leu Glu Asn Gln Glu Ile Thr Thr Glu
340 345 350
Pro Val Gly Ser Arg Leu Glu Lys Gly Leu Val Tyr Leu Pro Glu Asp
355 360 365
Arg Gln Val Ser Gly Leu Phe Leu Asp Ala Pro Ile Arg Trp Asn Thr
370 375 380
Val Ala Leu Asn Glu Pro Ser Leu Trp Gln Gln Arg Lys Arg Glu Ser
385 390 395 400
Ala Val Val Glu Arg Tyr His Arg Ala Leu Gly Ile Lys Leu Asn His
405 410 415
Ala Asp Gln Thr Val Arg Thr Leu Ser Gly Gly Asn Gln Gln Lys Val
420 425 430
Leu Leu Ala Arg Cys Leu Glu Ala Asn Pro Leu Leu Leu Ile Val Asp
435 440 445
Glu Pro Thr Arg Gly Val Asp Val Ser Ala Arg Ala Asp Ile Tyr Gln
450 455 460
Leu Leu Lys Ser Val Ala Ala Gln Asn Val Ala Val Leu Met Ile Ser
465 470 475 480
Ser Asp Leu Asp Glu Phe Pro Gly Leu Ala Asp Arg Val Leu Val Met
485 490 495
His Gln Gly Val Leu Ser Gly Glu Leu Pro Arg His Ala Val Ser Leu
500 505 510
Asp Arg Met Met Ala Leu Ala Phe Gly Gly Gln Ser
515 520 525

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<210> 9721

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 9721

```

Gly Ala Arg Met Ser Ser Thr Asp Ser Ser Ala Glu Lys Arg Ile Thr
1 5 10 15
Gly Thr Ser Glu Arg Arg Glu Gln Ile Ile Gln Arg Leu Arg Ala Gln
20 25 30
Gly Ser Val Gln Val Asn Asp Leu Ser Leu Leu Phe Gly Val Ser Thr
35 40 45
Val Thr Ile Arg Asn Asp Leu Ala Phe Leu Glu Lys Gln Gly Ile Ala
50 55 60
Val Arg Ala Tyr Gly Gly Ala Leu Ile Cys Glu Gly Asn Ala Pro Gly
65 70 75 80
Val Glu Pro Ser Val Glu Asp Lys Ser Ser Leu Asn Thr Ala Val Lys

```



```

      85              90              95
Arg Ser Ile Ala Gln Ala Ala Val Glu Leu Val Lys Pro Gly His Arg
      100              105              110
Ile Ile Leu Asp Ser Gly Thr Thr Phe Glu Ile Ala Arg Met Leu
      115              120              125
Arg Gln His Thr Asp Val Ile Ala Met Thr Asn Gly Met Asn Val Ala
      130              135              140
Asn Ala Leu Leu Glu Ala Glu Gly Val Glu Leu Leu Met Thr Gly Gly
      145              150              155
His Leu Arg Arg Gln Ser Gln Ser Phe Tyr Gly Asp Gln Ala Glu Gln
      165              170              175
Ser Leu Gln Asn Tyr His Phe Asp Leu Leu Phe Leu Gly Val Asp Ala
      180              185              190
Ile Asp Leu Asp Arg Gly Val Ser Thr His Asn Glu Asp Glu Ala Arg
      195              200              205
Leu Asn Arg Lys Met Cys Glu Val Ala Glu Arg Ile Ile Val Val Thr
      210              215              220
Asp Ser Ser Lys Phe Asn Arg Ser Ser Leu His Lys Ile Ile Asp Thr
      225              230              235
His Arg Ile Asp Met Ile Ile Val Asp Glu Gly Ile Pro Ala Glu Ser
      245              250              255
Leu Glu Gly Leu Arg Lys Ser Gly Ile Asp Val Val Leu Val
      260              265              270

```

<210> 9722

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 9722

```

Leu Met Ser Asn Thr Glu Ser Ile Ile Val Gly Gln Thr Lys Thr Ser
1      5      10
Ser Trp Arg Lys Ser Asp Thr Thr Trp Thr Leu Gly Leu Phe Gly Thr
20      25      30
Ala Ile Gly Ala Gly Val Leu Phe Phe Pro Ile Arg Ala Gly Phe Gly
35      40      45
Gly Leu Ile Pro Ile Leu Leu Met Leu Val Leu Ala Phe Pro Ile Ala
50      55      60
Phe Tyr Cys His Arg Ala Leu Ala Arg Leu Cys Leu Ser Gly Ser Asn
65      70      75      80
Val Ser Gly Asn Ile Thr Glu Thr Val Glu Glu His Phe Gly Lys Thr
85      90      95
Gly Gly Val Val Ile Thr Phe Leu Tyr Phe Phe Ala Ile Cys Pro Leu
100      105      110
Leu Trp Ile Tyr Gly Val Thr Ile Thr Asn Thr Phe Met Thr Phe Trp
115      120      125
Glu Asn Gln Leu Gln Met Pro Ala Leu Asn Arg Gly Val Val Ala Leu
130      135      140
Phe Leu Leu Leu Met Ala Phe Val Ile Trp Phe Gly Lys Asp Leu
145      150      155      160
Met Val Lys Val Met Ser Tyr Leu Val Phe Pro Phe Ile Ala Ser Leu
165      170      175
Val Leu Ile Ser Leu Ser Leu Ile Pro Tyr Trp Asn Ser Ala Val Ile
180      185      190
Asp Gln Val Asn Leu Ser Asp Ile Ala Phe Thr Gly His Asp Gly Ile
195      200      205
Leu Val Thr Val Trp Leu Gly Ile Ser Ile Met Val Phe Ser Phe Asn
210      215      220
Phe Ser Pro Ile Val Ser Ser Phe Val Val Ser Lys Arg Glu Glu Tyr
225      230      235      240
Glu Pro Glu Phe Gly Lys Glu Phe Thr Glu Gln Lys Cys Ser Lys Ile

```

245 250 255
 Ile Gly Arg Ala Ser Leu Leu Met Val Ala Val Val Met Phe Phe Ala
 260 265 270
 Phe Ser Cys Leu Phe Thr Leu Ser Pro Gln Asn Met Ala Asp Ala Lys
 275 280 285
 Ala Gln Asn Ile Pro Val Leu Ser Tyr Leu Ala Asn His Phe Ala Ser
 290 295 300
 Met Ser Gly Ser Lys Ser Thr Phe Ala Thr Val Leu Glu Tyr Gly Ala
 305 310 315 320
 Ser Ile Ile Ala Leu Val Ala Ile Phe Lys Ser Phe Phe Gly His Tyr
 325 330 335
 Leu Gly Thr Leu Glu Gly Leu Asn Gly Leu Ile Ile Lys Phe Gly Tyr
 340 345 350
 Lys Gly Asp Lys Lys Asn Val Ser Val Gly Lys Leu Asn Thr Ile Ser
 355 360 365
 Met Val Phe Ile Met Gly Ser Thr Trp Ile Val Ala Tyr Ala Asn Pro
 370 375 380
 Asn Ile Leu Asp Leu Ile Glu Ala Met Gly Ala Pro Ile Ile Ala Ser
 385 390 395 400
 Leu Leu Cys Leu Leu Pro Met Tyr Ala Ile Arg Lys Ala Pro Ala Leu
 405 410 415
 Ala Lys Tyr Lys Gly Arg Thr Glu Asn Ile Phe Val Thr Val Val Gly
 420 425 430
 Leu Leu Thr Ile Leu Asn Ile Val Tyr Lys Leu Phe
 435 440 445

<210> 9723

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 9723

Thr Lys Ala Gln Glu Glu Arg Ser His Thr Met Ile Glu Phe Pro Val
 1 5 10 15
 Val Leu Val Ile Asn Cys Gly Ser Ser Ser Val Lys Phe Ser Val Leu
 20 25 30
 Asp Ala Ala Ser Cys Asp Ala Leu Met Thr Gly Ile Ala Asp Gly Ile
 35 40 45
 Asn Thr Glu Lys Ala Phe Ile Ser Val Asn Gly Gly Glu Pro Val Arg
 50 55 60
 Leu Ala His Gln Asp Tyr Glu Gly Ala Leu Ala Ala Ile Ala Leu Glu
 65 70 75 80
 Leu Glu Lys Arg Asn Leu Met Gly Ser Val Ala Leu Ile Gly His Arg
 85 90 95
 Ile Ala His Gly Gly Asp Leu Phe Ser Glu Ser Thr Leu Ile Thr Glu
 100 105 110
 Glu Val Met Ala Gln Ile Arg Gln Val Ser Pro Leu Ala Pro Leu His
 115 120 125
 Asn Tyr Ala Asn Leu Ser Gly Val Glu Ala Ala Glu Arg Leu Phe Pro
 130 135 140
 Gly Val Gln Gln Val Ala Val Phe Asp Thr Ser Phe His Gln Thr Met
 145 150 155 160
 Pro Pro Gln Ala Tyr Leu Tyr Gly Leu Pro Tyr Arg Tyr Phe Glu Glu
 165 170 175
 Leu Gly Val Arg Arg Tyr Gly Phe His Gly Thr Ser His Arg Tyr Val
 180 185 190
 Ser Ala Gln Ala His Ala Leu Phe Gly Leu Ser Pro Asp Asp Ser Gly
 195 200 205
 Leu Val Ile Ala His Leu Gly Asn Gly Ala Ser Ile Cys Ala Val Arg
 210 215 220
 Asn Gly Val Ser Val Asp Thr Ser Met Gly Met Thr Pro Leu Glu Gly

```

225          230          235          240
Leu Val Met Gly Thr Arg Cys Gly Asp Val Asp Phe Gly Ala Met Ala
245          250          255
Trp Ile Ala Arg Gln Thr Gly Gln Ser Phe Glu Asp Leu Glu Arg Val
260          265          270
Val Asn Lys Glu Ser Gly Leu Leu Gly Ile Ser Gly Ile Ser Ser Asp
275          280          285
Leu Arg Ala Leu Glu Lys Ala Trp His Asp Gly Asn Glu Arg Ala Arg
290          295          300
Leu Ala Ile Lys Thr Phe Val His Arg Ile Ala Arg His Ile Ala Gly
305          310          315          320
His Ala Ala Ser Leu His Arg Leu Asp Gly Val Val Phe Thr Gly Gly
325          330          335
Ile Gly Glu Asn Ser Val Leu Ile Arg Ala Leu Val Ala Glu His Leu
340          345          350
Lys Val Phe Gly Ile Ile Leu Asp Glu Ser Lys Asn Ala Leu Pro Gly
355          360          365
Ser Ala Gly Glu Arg Val Ile Ser Thr Glu Ser Ser Arg Ala Ala Cys
370          375          380
Ala Val Ile Pro Thr Asn Glu Glu Lys Met Ile Ala Leu Asp Ala Leu
385          390          395          400
Arg Leu Gly Lys Val Thr Pro Ala Ala Tyr Ala
405          410

```

<210> 9724

<211> 769

<212> PRT

<213> Enterobacter cloacae

<400> 9724

```

Ser Glu Asn Leu Met Lys Val Thr Ile Asp Thr Gly Val Ala Pro Tyr
1          5          10          15
Ser Asp Ala Trp Ala Gly Phe Arg Gly Glu Glu Trp Lys Asn Ala Ile
20          25          30
Asn Val Arg Asp Phe Ile Gln His Asn Tyr Thr Pro Tyr Glu Gly Asp
35          40          45
Glu Ala Phe Leu Ala Gln Ala Thr Pro Ala Thr Thr Ala Leu Trp Gln
50          55          60
Lys Val Met Val Gly Ile Arg Gln Glu Asn Ala Thr His Ala Pro Val
65          70          75          80
Asp Phe Asp Thr Asn Ile Ala Thr Thr Ile Thr Ala His Gly Pro Gly
85          90          95
Tyr Ile Asp Gln Glu Leu Glu Thr Ile Val Gly Leu Gln Thr Asp Lys
100          105          110
Pro Leu Lys Arg Ala Leu His Pro Tyr Gly Gly Ile Asn Met Ile Arg
115          120          125
Ser Ser Phe Glu Ala Tyr Gly Arg Glu Met Asp Pro Gln Phe Glu Tyr
130          135          140
Leu Phe Thr Asp Leu Arg Lys Thr His Asn Gln Gly Val Phe Asp Val
145          150          155          160
Tyr Ser Pro Glu Met Met Arg Cys Arg Lys Ser Gly Val Leu Thr Gly
165          170          175
Leu Pro Asp Gly Tyr Gly Arg Gly Arg Ile Ile Gly Asp Tyr Arg Arg
180          185          190
Val Ala Leu Tyr Gly Ile Ser Tyr Leu Val Arg Glu Arg Glu Leu Gln
195          200          205
Phe Ala Asp Leu Gln Gly Lys Leu Glu Arg Gly Glu Asp Leu Glu Ala
210          215          220
Thr Ile Arg Leu Arg Glu Glu Leu Ala Glu His Lys Arg Ala Leu Leu
225          230          235          240
Gln Ile Gln Gln Met Ala Ala Asn Tyr Gly Phe Asp Ile Ser Arg Pro

```

245										250										255									
Ala Met	Asn	Ala	Gln	Glu	Ala	Val	Gln	Gly	Trp	Leu	Tyr	Phe	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu
Ala	Ala	Val	Lys	Ser	Gln	Asn	Gly	Gly	Ala	Met	Ser	Leu	Gly	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Ala	Ser	Phe	Leu	Asp	Ile	Tyr	Ile	Glu	Arg	Asp	Met	Gln	Ala	Gly	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg
Leu	Asn	Glu	Val	Gln	Ala	Gln	Glu	Leu	Ile	Asp	His	Phe	Ile	Met	Lys	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu
Ile	Arg	Met	Val	Arg	Phe	Leu	Arg	Thr	Pro	Glu	Phe	Asp	Thr	Leu	Phe	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu
Ser	Gly	Asp	Pro	Ile	Trp	Ala	Thr	Glu	Val	Ile	Gly	Gly	Met	Gly	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu
Asp	Gly	Arg	Thr	Leu	Val	Thr	Lys	Asn	Ser	Phe	Arg	Tyr	Leu	His	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Leu	His	Thr	Met	Gly	Pro	Ala	Pro	Glu	Pro	Asn	Leu	Thr	Ile	Leu	Trp	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Ser	Glu	Lys	Leu	Pro	Ile	Ala	Phe	Lys	Lys	Tyr	Ala	Ala	Gln	Val	Ser	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Ile	Val	Thr	Ser	Ser	Leu	Gln	Tyr	Glu	Asn	Asp	Asp	Leu	Met	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Asp	Phe	Asn	Ser	Asp	Asp	Tyr	Ala	Ile	Ala	Cys	Cys	Val	Ser	Pro	Met	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Val	Ile	Gly	Lys	Gln	Met	Gln	Phe	Phe	Gly	Ala	Arg	Ala	Asn	Leu	Ala	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Lys	Thr	Leu	Leu	Tyr	Ala	Ile	Asn	Gly	Gly	Val	Asp	Glu	Lys	Leu	Lys	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Ile	Gln	Val	Gly	Pro	Lys	Thr	Glu	Pro	Leu	Leu	Asp	Glu	Val	Leu	Asp	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Tyr	Asp	Thr	Val	Met	Ala	Ser	Leu	Asp	His	Phe	Met	Asp	Trp	Leu	Ala	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Val	Gln	Tyr	Ile	Ser	Ala	Leu	Asn	Leu	Ile	His	Tyr	Met	His	Ala	Lys	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Tyr	Ser	Tyr	Glu	Ala	Ser	Leu	Met	Ala	Leu	His	Asp	Val	Ala	Val	Tyr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Arg	Thr	Met	Ala	Cys	Gly	Ile	Ala	Gly	Leu	Ser	Val	Ala	Ala	Asp	Ser	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Leu	Ser	Ala	Ile	Lys	Tyr	Ala	Thr	Val	Lys	Pro	Val	Arg	Asp	His	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr	Leu	Met	Ala	Tyr	Leu	Arg	Thr
Gly	Leu	Ala	Val	Asp	Phe	Ile	Ile	Glu	Gly	Asp	Tyr	Pro	Gln	Tyr	Gly	Leu													

Leu	Thr	Ile	Arg	Val	Ser	Gly	Tyr	Ala	Val	Arg	Phe	Asn	Ala	Leu	Thr
			740					745				750			
Arg	Glu	Gln	Gln	Gln	Asp	Val	Ile	Ser	Arg	Thr	Phe	Thr	Gln	Ala	Met
			755				760					765			

<210> 9725

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 9725

Arg	Arg	Ile	Ala	Gly	Asn	Tyr	Arg	Asn	Tyr	Arg	Ala	Ala	Ala	Leu	Cys
1				5					10					15	
Phe	Ser	Phe	Pro	Arg	Leu	Leu	Met	Arg	Leu	Asn	Lys	Val	Val	Thr	Met
			20					25				30			
Ser	Glu	Gln	Ile	Asn	Pro	Leu	Trp	Asn	His	Phe	Ile	Arg	Ala	Val	Gln
			35				40					45			
Glu	Glu	Val	Lys	Pro	Ala	Leu	Gly	Cys	Thr	Glu	Pro	Val	Ser	Leu	Ala
		50					55				60				
Leu	Ala	Cys	Ala	Met	Ala	Ala	Gly	Gln	Leu	Ser	Gly	Glu	Val	Thr	Arg
65					70				75					80	
Ile	Glu	Ala	Trp	Val	Ser	Pro	Asn	Leu	Met	Lys	Asn	Gly	Leu	Gly	Val
				85					90					95	
Thr	Val	Pro	Gly	Thr	Gly	Met	Val	Gly	Leu	Pro	Ile	Ala	Ala	Ala	Leu
			100					105					110		
Gly	Ala	Thr	Gly	Gly	Asn	Ala	His	Ala	Gly	Leu	Glu	Val	Leu	Lys	Asp
			115					120				125			
Ala	Ser	Ala	Glu	Ala	Leu	Thr	Arg	Ala	Lys	Ala	Leu	Leu	Asn	Ala	Gly
			130				135				140				
Leu	Val	Gln	Val	Lys	Leu	Gln	Glu	Pro	Cys	Asp	Glu	Ile	Leu	Tyr	Ser
145				150					155					160	
Arg	Ala	Cys	Val	Tyr	Ala	Gly	Glu	Ser	Ser	Ala	Met	Val	Thr	Ile	Ala
				165					170					175	
Gly	Gly	His	Thr	Arg	Val	Val	Glu	Val	Val	Cys	Gln	Gly	Glu	Thr	Cys
			180					185						190	
Phe	Arg	Leu	Asp	Asp	Arg	Gln	Ser	Gln	Asn	Asn	Asp	Asp	Pro	Leu	Ala
			195				200					205			
Val	Leu	Ser	Thr	Thr	Thr	Leu	Ser	Gln	Ile	Leu	Glu	Phe	Val	Glu	Gln
			210				215				220				
Val	Pro	Phe	Asp	Ala	Ile	Arg	Phe	Ile	Leu	Asp	Ala	Gly	Arg	Leu	Asn
225				230					235					240	
Asp	Ala	Leu	Ser	Arg	Glu	Gly	Leu	Arg	Gly	Asn	Trp	Gly	Leu	His	Ile
				245					250					255	
Gly	Ala	Thr	Leu	Asn	Lys	Gln	Arg	Ala	Arg	Gly	Trp	Met	Ala	Gln	Asp
			260					265					270		
Leu	Gly	Ser	Asp	Ile	Ile	Ile	Arg	Thr	Ser	Ala	Ala	Ser	Asp	Ala	Arg
			275				280					285			
Met	Gly	Gly	Ala	Thr	Leu	Pro	Ala	Met	Ser	Asn	Ser	Gly	Ser	Gly	Asn
			290				295				300				
Gln	Gly	Ile	Thr	Ala	Thr	Met	Pro	Val	Val	Val	Val	Ala	Glu	His	Val
305				310						315				320	
Gln	Ala	Asp	Asp	Glu	Arg	Leu	Ala	Arg	Ala	Leu	Met	Leu	Ser	His	Leu
				325					330					335	
Ser	Ala	Ile	Tyr	Ile	His	Tyr	Gln	Leu	Pro	Arg	Leu	Ser	Ala	Leu	Cys
			340					345					350		
Ala	Ala	Thr	Thr	Ala	Gly	Met	Gly	Ala	Ala	Ala	Gly	Met	Ala	Trp	Leu
			355				360					365			
Met	Gly	Gly	Ser	Tyr	Gln	Thr	Ile	Ala	Met	Ala	Ile	Gly	Ser	Met	Ile
			370				375					380			

Gly Asp Val Ser Gly Met Ile Cys Asp Gly Ala Ser Asn Ser Cys Ala
 385 390 395 400
 Met Lys Val Ser Thr Ser Val Thr Ser Ala Trp Lys Ala Val Met Met
 405 410 415
 Ala Leu Asp Asp Thr Ala Val Thr Gly Asn Glu Gly Ile Val Ala His
 420 425 430
 Asp Val Glu Gln Ser Ile Ser Asn Leu Cys Ala Leu Ala Cys Arg Ser
 435 440 445
 Met Gln Ala Thr Asp Arg Gln Ile Ile Glu Ile Met Ala Ser Lys Val
 450 455 460
 Leu
 465

<210> 9726

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 9726

Arg Tyr Gly Arg Cys Ile Val Ser Gln Ile Phe Cys Leu Val Cys Ser
 1 5 10 15
 Asn Phe Leu Asn Glu Asn Glu Met Ala Lys Glu Arg Ala Leu Thr Leu
 20 25 30
 Glu Ala Leu Arg Val Met Asp Ala Ile Asp Arg Arg Gly Ser Phe Ala
 35 40 45
 Ala Ala Ala Asp Glu Leu Gly Arg Val Pro Ser Ala Leu Ser Tyr Thr
 50 55 60
 Met Gln Lys Leu Glu Glu Leu Asp Val Val Leu Phe Asp Arg Ser
 65 70 75 80
 Gly His Arg Thr Lys Phe Thr Asn Val Gly Arg Met Leu Leu Glu Arg
 85 90 95
 Gly Arg Val Leu Leu Glu Ala Ala Asp Lys Leu Thr Thr Asp Ala Glu
 100 105 110
 Ala Leu Ala Arg Gly Trp Glu Thr His Leu Thr Leu Val Thr Glu Ala
 115 120 125
 Leu Val Pro Thr Glu Ala Leu Phe Pro Leu Val Asp Arg Leu Ala Ala
 130 135 140
 Lys Ala Asn Thr Gln Leu Ser Ile Ile Thr Glu Val Leu Ala Gly Ala
 145 150 155 160
 Trp Glu Arg Leu Glu Thr Gly Arg Ala Asp Ile Val Ile Ala Pro Asp
 165 170 175
 Met His Phe Arg Ser Ser Ser Glu Ile Asn Ser Arg Lys Leu Tyr Ser
 180 185 190
 Val Met Asn Val Tyr Val Ala Ala Pro Asp His Pro Ile His Gln Glu
 195 200 205
 Pro Glu Pro Leu Ser Glu Val Thr Arg Val Lys Tyr Arg Gly Val Ala
 210 215 220
 Val Ala Asp Thr Ala Arg Glu Arg Pro Val Leu Thr Val Gln Leu Leu
 225 230 235 240
 Asp Lys Gln Pro Arg Leu Thr Val Thr Ser Leu Glu Asp Lys Arg Gln
 245 250 255
 Ala Leu Leu Ala Gly Leu Gly Val Ala Thr Met Pro Tyr Pro Phe Val
 260 265 270
 Glu Lys Asp Ile Ala Glu Gly Arg Leu Arg Val Val Ser Pro Glu Tyr
 275 280 285
 Thr Ser Glu Val Asp Ile Ile Met Ala Trp Arg Arg Asp Ser Met Gly
 290 295 300
 Glu Ala Lys Ser Trp Cys Leu Arg Glu Ile Pro Lys Leu Phe Ala His
 305 310 315 320
 His Asn Lys

<210> 9727

<211> 537

<212> PRT

<213> *Enterobacter cloacae*

<400> 9727

Gln Arg Gly Lys Leu Met Ser Tyr Leu Leu Ala Leu Asp Ala Gly Thr
 1 5 10 15
 Gly Ser Val Arg Ala Val Ile Phe Asp Leu Gln Gly Asn Gln Ile Ala
 20 25 30
 Val Gly Gln Ala Glu Trp Lys His Leu Ser Val Glu Asn Val Pro Gly
 35 40 45
 Ser Met Glu Phe Asp Leu Asp Thr Asn Trp Arg Leu Ala Cys Arg Cys
 50 55 60
 Ile Gln Gln Ala Leu Glu Arg Ala Arg Leu Ser Ala Ala Asp Ile Gln
 65 70 75 80
 Ser Val Ala Cys Cys Ser Met Arg Glu Gly Ile Val Leu Tyr Asp Arg
 85 90 95
 Asn Gly Glu Ala Ile Trp Ala Cys Ala Asn Val Asp Ala Arg Ala Ser
 100 105 110
 Arg Glu Val Ala Glu Leu Lys Glu Ile His Asp Tyr Arg Phe Glu Ser
 115 120 125
 Glu Val Tyr Glu Val Ser Gly Gln Thr Leu Ala Leu Ser Ala Met Pro
 130 135 140
 Arg Leu Leu Trp Leu Ala His His Arg Pro Asp Ile Tyr Arg Lys Ala
 145 150 155 160
 Ala Thr Ile Thr Met Ile Ser Asp Trp Leu Ala Ala Lys Leu Ser Gly
 165 170 175
 Glu Leu Ala Val Asp Pro Ser Asn Ala Gly Thr Thr Gly Met Leu Asp
 180 185 190
 Leu Phe Ser Arg Asp Trp Arg Pro Ala Leu Leu Asp Met Ala Gly Leu
 195 200 205
 Arg Ala Asp Ile Leu Ser Pro Val Lys Glu Thr Gly Thr Val Leu Gly
 210 215 220
 Ala Ile Thr Arg Gln Ala Ala Gln Gln Cys Gly Leu Arg Glu Gly Thr
 225 230 235 240
 Pro Val Val Met Gly Gly Gly Asp Val Gln Leu Gly Cys Leu Gly Leu
 245 250 255
 Gly Val Val Arg Ala Gly Gln Thr Ala Val Leu Gly Gly Thr Phe Trp
 260 265 270
 Gln Gln Val Val Asn Leu Pro Gln Val Arg Thr Asp Pro Glu Met Asn
 275 280 285
 Ile Arg Val Asn Pro His Val Ile Pro Gly Met Ala Gln Ala Glu Ser
 290 295 300
 Ile Ser Phe Phe Thr Gly Leu Thr Met Arg Trp Phe Arg Asp Ala Phe
 305 310 315 320
 Cys Ala Glu Glu Lys Leu Ile Ala Glu Arg Met Gly Met Asp Thr Tyr
 325 330 335
 Ser Leu Leu Glu Glu Met Ala Ser Arg Val Pro Ala Gly Ser His Gly
 340 345 350
 Val Met Pro Ile Phe Ser Asp Ala Met His Phe Lys Gln Trp Tyr His
 355 360 365
 Ala Ala Pro Ser Phe Ile Asn Leu Ser Ile Asp Pro Glu Lys Cys Asn
 370 375 380
 Lys Ala Thr Leu Phe Arg Ala Leu Glu Glu Asn Ala Ala Ile Val Ser
 385 390 395 400
 Ala Cys Asn Leu Ala Gln Ile Ser Arg Phe Ser Gly Val Thr Phe Glu
 405 410 415
 Ser Leu Val Phe Ala Gly Gly Gly Ala Lys Gly Ala Leu Trp Ser Gln
 420 425 430

Ile Leu Ser Asp Val Thr Gly Leu Pro Val Arg Val Pro Glu Val Lys
 435 440 445
 Glu Ala Thr Ala Leu Gly Cys Ala Leu Ala Ala Gly Ala Gly Ala Gly
 450 455 460
 Leu Phe Ala Asp Met Ala Ser Thr Gly Glu Arg Leu Val Lys Trp Ser
 465 470 475 480
 Arg Glu Phe Thr Pro Asn Pro Gln His Arg Glu Leu Tyr Asp Gly Met
 485 490 495
 Met Gln Lys Trp Gln Ala Val Tyr Ala Asp Gln Leu Gly Leu Val Asp
 500 505 510
 Ser Gly Leu Thr Thr Ser Met Trp Gln Ala Pro Gly Leu Val Arg Ala
 515 520 525
 Ser Pro Ser Pro Arg Pro Ser Pro
 530 535

<210> 9728

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 9728

Thr Phe Met Ile Arg Phe Ala Val Ile Gly Thr Asn Trp Ile Thr Arg
 1 5 10 15
 Gln Phe Val Asp Ala Ala His Glu Thr Gly Lys Tyr Lys Leu Thr Ala
 20 25 30
 Val Tyr Ser Arg Ser Leu Glu Gln Ala Gln Ser Phe Ala Asn Asp Tyr
 35 40 45
 Leu Val Glu His Leu Phe Thr Ser Leu Asp Glu Met Ala Gln Ser Asp
 50 55 60
 Ala Ile Asp Ala Val Tyr Ile Ala Ser Pro Asn Ser Leu His Phe Pro
 65 70 75
 Gln Thr Lys Leu Phe Leu Ser His Lys Lys His Val Ile Cys Glu Lys
 85 90 95
 Pro Leu Ala Ser Asn Ile Glu Glu Val Glu Ala Ala Ile Ala Leu Ala
 100 105 110
 Arg Glu Asn Gln Val Val Leu Phe Glu Ala Phe Lys Thr Ala Ser Leu
 115 120 125
 Pro Asn Phe Leu Leu Leu Gln Gln Ser Leu Pro Lys Ile Gly Lys Val
 130 135 140
 Arg Lys Ala Phe Ile Asn Tyr Cys Gln Tyr Ser Ser Arg Tyr Gln Arg
 145 150 155 160
 Tyr Leu Asp Gly Glu Asn Pro Asn Thr Phe Asn Pro Ala Phe Ser Asn
 165 170 175
 Gly Ser Ile Met Asp Ile Gly Phe Tyr Cys Leu Ala Ser Ala Val Ala
 180 185 190
 Leu Trp Gly Glu Pro His Gly Val Thr Ala Thr Ala Ser Leu Leu Glu
 195 200 205
 Ser Gly Val Asp Ala His Gly Val Val Val Leu Asp Tyr Gly Asp Phe
 210 215 220
 Ser Val Thr Leu Gln His Ser Lys Val Ser Asp Ser Val Leu Pro Ser
 225 230 235 240
 Glu Ile Gln Gly Glu Asp Gly Ser Leu Val Ile Glu Lys Ile Ser Glu
 245 250 255
 Cys Gln Lys Leu Ser Ile Val Pro Arg Gly Lys Ala Gln Glu Leu
 260 265 270
 Thr Gln Pro Gln His Ile Asn Thr Met Leu Tyr Glu Ala Glu Val Phe
 275 280 285
 Ala Arg Leu Val Glu Asp Asn Glu Val Asn His Pro Gly Leu Ala Ile
 290 295 300
 Ser Arg Thr Thr Ala Lys Leu Gln Thr Glu Ile Arg Arg Gln Thr Gly
 305 310 315 320

Val Ile Phe Pro Ala Asp Gly Val Asn Val Glu Ala Val Ala
 325 330 335

<210> 9729

<211> 415

<212> PRT

<213> Enterobacter cloacae

<400> 9729

Arg Met Ser Thr Gln Ser Arg Gly Leu Phe Ala Arg Leu Ala Gln Gly
 1 5 10 15
 Ser Leu Val Lys Gln Ile Leu Val Gly Leu Val Leu Gly Ile Leu Leu
 20 25 30
 Ala Met Val Ser Lys Pro Ala Ala Glu Ala Thr Gly Leu Leu Gly Thr
 35 40 45
 Leu Phe Val Gly Ala Leu Lys Ala Val Ala Pro Val Leu Val Leu Met
 50 55 60
 Leu Val Met Ala Ser Ile Ala Asn His Gln His Gly Gln Lys Thr Asn
 65 70 75 80
 Ile Arg Pro Ile Leu Phe Leu Tyr Leu Leu Gly Thr Phe Ser Ala Ala
 85 90 95
 Leu Thr Ala Val Val Phe Ser Phe Leu Phe Pro Ser Thr Leu His Leu
 100 105 110
 Thr Ser Ala Ala Gly Asp Ile Thr Pro Pro Ser Gly Ile Val Glu Val
 115 120 125
 Leu Arg Gly Leu Leu Met Ser Met Val Ser Asn Pro Ile Thr Ala Leu
 130 135 140
 Met Ser Gly Asn Tyr Ile Gly Ile Leu Val Trp Ala Ile Gly Leu Gly
 145 150 155 160
 Phe Ala Leu Arg His Gly Asn Glu Thr Thr Lys Asn Leu Val Asn Asp
 165 170 175
 Leu Ser Asn Ala Val Thr Phe Met Val Lys Leu Val Ile Arg Phe Ala
 180 185 190
 Pro Val Gly Ile Phe Gly Leu Val Ser Ser Thr Leu Ala Thr Thr Gly
 195 200 205
 Phe Asp Ala Leu Trp Gly Tyr Ala Gln Leu Leu Val Val Leu Val Gly
 210 215 220
 Cys Met Leu Leu Val Ala Leu Val Ile Asn Pro Leu Leu Val Phe Trp
 225 230 235 240
 Gln Ile Arg Arg Asn Pro Tyr Pro Leu Val Leu Thr Cys Leu Arg Glu
 245 250 255
 Ser Gly Val Tyr Ala Phe Phe Thr Arg Ser Ser Ala Ala Asn Ile Pro
 260 265 270
 Val Asn Met Ala Leu Ala Glu Lys Leu Asn Leu Asp Arg Asp Thr Tyr
 275 280 285
 Ser Val Ser Ile Pro Leu Gly Ala Thr Val Asn Met Ala Gly Ala Ala
 290 295 300
 Ile Thr Ile Thr Val Leu Thr Leu Ala Ala Val His Thr Leu Gly Ile
 305 310 315 320
 Pro Val Asp Leu Pro Thr Ala Leu Leu Leu Ser Val Val Ala Ser Leu
 325 330 335
 Cys Ala Cys Gly Ala Ser Gly Val Ala Gly Gly Ser Leu Leu Leu Ile
 340 345 350
 Pro Leu Ala Cys Asn Met Phe Gly Ile Pro Asn Glu Ile Ala Met Gln
 355 360 365
 Val Val Ala Val Gly Phe Ile Ile Gly Val Leu Gln Asp Ser Cys Glu
 370 375 380
 Thr Ala Leu Asn Ser Ser Thr Asp Val Leu Phe Thr Ala Ala Ala Cys
 385 390 395 400
 Gln Ala Glu Asp Ala Arg Leu Ala Lys Asn Ala Leu Arg Ser
 405 410 415

<210> 9730

<211> 449

<212> PRT

<213> *Enterobacter cloacae*

<400> 9730

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Val Val Ala Val Ser Arg His Gly Asn Asn Ile Thr Met Arg Phe Tyr
1      5      10      15
Met Arg Lys Ile Lys Gly Leu Arg Trp Tyr Met Ile Ala Leu Val Thr
20      25      30
Leu Gly Thr Val Leu Gly Tyr Leu Thr Arg Asn Thr Val Ala Ala Ala
35      40      45
Ala Pro Thr Leu Met Glu Glu Leu His Ile Ser Thr Gln Gln Tyr Ser
50      55      60
Tyr Ile Ile Ala Ala Tyr Ser Ala Ala Tyr Thr Val Met Gln Pro Val
65      70      75      80
Ala Gly Tyr Val Leu Asp Ile Leu Gly Thr Lys Ile Gly Tyr Ala Phe
85      90      95
Phe Ala Val Ala Trp Ala Val Phe Cys Gly Ala Thr Ala Leu Ala Gly
100      105      110
Ser Trp Gly Gly Leu Ala Leu Ala Arg Gly Ala Val Gly Ala Ala Glu
115      120      125
Ala Ala Met Ile Pro Ala Gly Leu Lys Ala Ser Ser Glu Trp Phe Pro
130      135      140
Ala Lys Glu Arg Ser Ile Ala Val Gly Tyr Phe Asn Val Gly Ser Ser
145      150      155      160
Ile Gly Ala Met Ile Ala Pro Pro Leu Val Val Trp Ala Ile Val Met
165      170      175
His Ser Trp Gln Met Ala Phe Ile Ile Ser Gly Val Leu Ser Phe Ala
180      185      190
Trp Ala Met Ala Trp Leu Ile Phe Tyr Lys His Pro Arg Asp Gln Lys
195      200      205
Lys Leu Ser Asp Glu Glu Arg Asp Tyr Ile Ile Asn Gly Gln Glu Ser
210      215      220
Gln His Gln Thr Asp Asn Gly Lys Lys Met Ser Val Trp Gln Ile Leu
225      230      235
Gly Thr Arg Gln Phe Trp Gly Ile Ala Leu Pro Arg Phe Leu Ala Glu
240      245      250      255
Pro Ala Trp Gly Thr Phe Asn Ala Trp Ile Pro Leu Phe Met Phe Lys
260      265      270
Val Tyr Gly Phe Asn Leu Lys Glu Ile Ala Met Phe Ala Trp Met Pro
275      280      285
Met Leu Phe Ala Asp Leu Gly Cys Ile Val Gly Gly Tyr Leu Pro Pro
290      295      300
Leu Phe Gln Arg Trp Phe Gly Val Asn Leu Ile Val Ser Arg Lys Met
305      310      315      320
Val Val Thr Met Gly Ala Leu Leu Met Ile Gly Pro Gly Met Ile Gly
325      330      335
Leu Phe Thr Ser Pro Tyr Val Ala Ile Ala Leu Leu Cys Ile Gly Gly
340      345      350
Phe Ala His Gln Ser Leu Ser Gly Ala Leu Ile Thr Leu Ser Ser Asp
355      360      365
Val Phe Gly Arg Asn Glu Val Ala Thr Ala Asn Gly Leu Thr Gly Met
370      375      380
Ala Ala Trp Thr Ala Ser Thr Leu Phe Ala Leu Val Val Gly Ala Leu
385      390      395      400
Ala Asp Thr Ile Gly Phe Ser Pro Leu Phe Ala Val Leu Ala Val Phe
405      410      415
Asp Leu Leu Gly Ala Val Val Ile Trp Thr Val Leu Lys Ser Lys Ser
420      425      430

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Ala Asp Glu Leu Ala Lys Glu Ser Leu Gly Gly Pro Ala Thr Gln Ser
 435 440 445

<210> 9731

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 9731

Phe Trp Asn Thr Ala Tyr Ala Val Thr Gln Trp Lys Val Ser Ile Met
 1 5 10 15
 Lys Tyr Arg Ile Thr Leu Ala Leu Ala Leu Phe Ser Leu Ser Thr Ala
 20 25 30
 Ser Phe Ala Met Ser Leu Cys Gln Glu Lys Glu Gln Asp Ile Gln Arg
 35 40 45
 Glu Ile Ser Tyr Ala Glu Lys His Asn Asn Gln His Arg Ile Asp Gly
 50 55 60
 Leu Lys Lys Ala Leu Ser Glu Val Lys Asp Asn Cys Thr Asp Ser Lys
 65 70 75 80
 Leu Arg Ala Asp His Gln Glu Lys Ile Ala Glu Gln Lys Asp Glu Ile
 85 90 95
 Ala Glu Arg Arg Gln Asp Leu Gln Glu Ala Lys Glu Lys Gly Asp Ala
 100 105 110
 Glu Lys Ile Ala Lys Arg Glu Arg Lys Leu Gln Glu Ala Gln Asp Glu
 115 120 125
 Leu Lys Ala Leu Glu Ala Arg Asp Tyr
 130 135

<210> 9732

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 9732

Val Val Ser Asp Lys Ala Glu Arg Gln Lys Arg Lys Ala Tyr Leu Leu
 1 5 10 15
 Ser Gln Ile Gln Gln Gln Arg Leu Asp Leu Ser Ala Ser Arg Arg Asp
 20 25 30
 Trp Val Glu Ala Thr His Arg Phe Asp Arg Gly Trp Asn Thr Val Leu
 35 40 45
 Ser Leu Arg Ser Trp Ala Leu Val Gly Ser Ser Val Met Ala Ile Trp
 50 55 60
 Ser Val Arg His Pro Asn Met Leu Ile Arg Trp Ala Arg Arg Gly Phe
 65 70 75 80
 Gly Ala Trp Ser Ala Trp Arg Leu Val Lys Thr Thr Leu Arg Gln Gln
 85 90 95
 Gln Leu Arg
 100

<210> 9733

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 9733

Arg Glu Val Lys Phe Met Ile Thr Thr Arg Thr Ala Lys Gln Cys Gly
 1 5 10 15
 Gln Ala Asp Phe Gly Trp Leu Gln Ala Arg Tyr Thr Phe Ser Phe Gly
 20 25 30

His Tyr Phe Asp Pro Lys Leu Leu Gly Tyr Ala Ser Leu Arg Val Leu
 35 40 45
 Asn Gln Glu Val Leu Ala Pro Gly Ala Ser Phe Gln Pro Arg Thr Tyr
 50 55 60
 Pro Lys Val Asp Ile Leu Asn Leu Ile Leu Glu Gly Glu Ala Glu Tyr
 65 70 75 80
 Arg Asp Ser Glu Gly Asn His Val Gln Ala Lys Ala Gly Glu Ala Leu
 85 90 95
 Leu Ile Ser Thr Gln Pro Gly Ile Ser Tyr Ser Glu His Asn Leu Ser
 100 105 110
 Lys Asp Lys Thr Leu Thr Arg Met Gln Leu Trp Leu Asp Ala Cys Pro
 115 120 125
 Glu Arg Glu Asn Pro Leu Val Gln Lys Ile Asp Leu Lys Gly Asp Gln
 130 135 140
 Gln Gln Leu Ile Ala Ser Pro Asp Gly Ser Lys Gly Ser Leu Gln Leu
 145 150 155 160
 Arg Gln Gln Val Trp Leu His His Ile Glu Leu Lys Lys Gly Glu Gln
 165 170 175
 Ala Ser Phe Gln Leu His Gly Pro Arg Ala Tyr Leu Gln Ser Ile His
 180 185 190
 Gly Thr Val His Ala Val Thr His Thr Glu Glu Lys Glu Ala Leu Thr
 195 200 205
 Cys Gly Asp Gly Ala Phe Ile Arg Asp Glu Ala Asn Ile Thr Leu Val
 210 215 220
 Ala Asp Thr Pro Leu Arg Ala Leu Leu Ile Asp Leu Pro Val
 225 230 235

<210> 9734

<211> 525

<212> FRT

<213> Enterobacter cloacae

<400> 9734

Thr Met Ala Asp Ile Glu Ile Arg Gln Ala Ser Pro Thr Ala Phe Tyr
 1 5 10 15
 Ile Lys Val His Asp Thr Asp Asn Val Ala Ile Ile Val Asn Asp Asn
 20 25 30
 Gly Leu Lys Ala Gly Thr Arg Phe Pro Asp Gly Leu Glu Leu Ile Glu
 35 40 45
 His Ile Pro Gln Gly His Lys Val Ala Leu Val Asp Ile Pro Ala His
 50 55 60
 Gly Glu Ile Val Arg Tyr Gly Glu Val Ile Gly Tyr Ala Val Arg Ala
 65 70 75 80
 Ile Pro Gln Gly Ser Trp Ile Glu Glu Ser Leu Val Glu Leu Pro Thr
 85 90 95
 Ala Pro Pro Leu Glu Thr Leu Pro Leu Ala Thr Arg Val Pro Glu Pro
 100 105 110
 Leu Pro Pro Leu Glu Gly Tyr Thr Phe Glu Gly Tyr Arg Asn Ala Asp
 115 120 125
 Gly Ser Val Gly Thr Lys Asn Leu Leu Gly Ile Thr Thr Ser Val His
 130 135 140
 Cys Val Ala Gly Val Val Asp Tyr Val Val Lys Ile Ile Glu Arg Asp
 145 150 155 160
 Leu Leu Pro Lys Tyr Pro Asn Val Asp Gly Val Val Gly Leu Asn His
 165 170 175
 Leu Tyr Gly Cys Gly Val Ala Ile Asn Ala Pro Ala Ala Val Val Pro
 180 185 190
 Ile Arg Thr Ile His Asn Ile Ala Leu Asn Pro Asn Phe Gly Gly Glu
 195 200 205
 Val Met Val Ile Gly Leu Gly Cys Glu Lys Leu Gln Pro Glu Arg Leu
 210 215 220

Leu Gln Gly Thr Glu Asp Val Lys Ala Ile Pro Val Asp Asp Ala Ser
 225 230 235 240
 Val Val Arg Leu Gln Asp Glu His His Val Gly Phe Arg Ser Met Val
 245 250 255
 Asp Asp Ile Leu Gln Val Ala Glu Arg His Leu Glu Lys Leu Asn Lys
 260 265 270
 Arg Gln Arg Glu Thr Cys Pro Ala Ser Glu Leu Val Val Gly Thr Gln
 275 280 285
 Cys Gly Gly Ser Asp Ala Phe Ser Gly Val Thr Ala Asn Pro Ala Val
 290 295 300
 Gly Tyr Ala Ser Asp Leu Phe Val Arg Cys Gly Ala Thr Val Met Phe
 305 310 315 320
 Ser Glu Val Thr Glu Val Arg Asp Ala Ile His Leu Leu Thr Pro Arg
 325 330 335
 Ala Val Asn Glu Glu Val Gly Lys Arg Leu Leu Glu Glu Met Ala Trp
 340 345 350
 Tyr Asp Asn Tyr Leu Asp Met Gly Lys Thr Asp Arg Ser Ala Asn Pro
 355 360 365
 Ser Pro Gly Asn Lys Lys Gly Gly Leu Ala Asn Val Val Glu Lys Ala
 370 375 380
 Leu Gly Ser Ile Ala Lys Ser Gly Gln Ser Ala Ile Val Glu Val Leu
 385 390 395 400
 Ser Pro Gly Gln Arg Pro Thr Lys Arg Gly Leu Ile Tyr Ala Ala Thr
 405 410 415
 Pro Ala Ser Asp Phe Val Cys Gly Thr Gln Gln Val Ala Ser Gly Ile
 420 425 430
 Thr Val Gln Val Phe Thr Thr Gly Arg Gly Thr Pro Tyr Gly Leu Met
 435 440 445
 Ala Val Pro Val Ile Lys Met Ala Thr Arg Thr Glu Leu Ala Asn Arg
 450 455 460
 Trp Tyr Asp Leu Met Asp Ile Asn Ala Gly Thr Ile Ala Thr Gly Glu
 465 470 475 480
 Glu Ser Ile Glu Glu Val Gly Trp Lys Leu Phe His Phe Ile Leu Asp
 485 490 495
 Val Ala Ser Gly Arg Lys Lys Thr Phe Ser Asp Gln Trp Gly Leu His
 500 505 510
 Asn Ser Leu Ala Val Phe Asn Pro Ala Pro Val Thr
 515 520 525

<210> 9735

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 9735

Met Pro Thr Pro Ser Glu Met Glu Arg Lys Val Lys His Leu Thr Glu
 1 5 10 15
 Met Val Glu Gln His Lys Arg Gly Asn Thr Asn Gly Ile Tyr Ala Val
 20 25 30
 Cys Ser Ala His Pro Leu Val Leu Glu Ala Ala Ile Arg Tyr Ala His
 35 40 45
 Ser Gln Gln Thr Pro Leu Leu Ile Glu Ala Thr Ser Asn Gln Val Asp
 50 55 60
 Gln Phe Gly Gly Tyr Thr Gly Met Thr Pro Ala Asp Phe Tyr Gly Phe
 65 70 75 80
 Val Cys Lys Leu Ala Gly Ser Leu Gly Phe Pro Thr Ser Gln Leu Ile
 85 90 95
 Leu Gly Gly Asp His Leu Gly Pro Asn Arg Trp Gln Asn Leu Pro Ala
 100 105 110
 Leu Gln Ala Met Ala Asn Ala Asp Asp Leu Ile Arg Ser Tyr Val Ala
 115 120 125

Ala Gly Phe Lys Lys Ile His Leu Asp Cys Ser Met Ser Cys Glu Asp
 130 135 140
 Asp Pro Val Pro Leu Thr Asp Ala Ile Val Ala Gly Arg Ala Ala Arg
 145 150 155 160
 Leu Ala Lys Ile Ala Glu Thr Thr Cys Leu Glu Gln Phe Gly Val Ala
 165 170 175
 Asp Leu Val Tyr Val Ile Gly Thr Glu Val Pro Val Pro Gly Gly Ala
 180 185 190
 His Glu Thr Leu Thr Glu Leu Glu Val Thr Thr Pro Glu Ala Ala Arg
 195 200 205
 Ala Thr Leu Glu Ala His Arg His Ala Phe Glu Lys Glu Gly Leu Ser
 210 215 220
 Asp Ile Trp Pro Arg Ile Ile Gly Leu Val Val Gln Pro Gly Val Glu
 225 230 235 240
 Phe Asp His Ala His Val Cys Asp Tyr Gln Pro His Lys Ala Val Ala
 245 250 255
 Leu Ser Lys Met Val Glu Ala Tyr Asp Thr Leu Val Phe Glu Ala His
 260 265 270
 Ser Thr Asp Tyr Gln Thr Pro Gln Ala Leu Arg Gln Leu Val Lys Asp
 275 280 285
 His Phe Ala Ile Leu Lys Val Gly Pro Ala Leu Thr Phe Ala Leu Arg
 290 295 300
 Glu Ala Leu Phe Ser Leu Ala Ala Ile Glu Glu Glu Leu Leu Pro Ala
 305 310 315 320
 Lys Ala Cys Ser Gly Leu Arg His Val Leu Glu Asn Val Met Leu Asp
 325 330 335
 Arg Pro Glu Tyr Trp Gln Ser His Tyr His Gly Asp Gly Asn Ala Arg
 340 345 350
 Arg Leu Ala Arg Gly Tyr Ser Tyr Ser Asp Arg Val Arg Tyr Tyr Trp
 355 360 365
 Pro Asp Ser Gln Ile Asp Asp Ala Phe Glu Arg Leu Val Arg Asn Leu
 370 375 380
 Ala Asp Glu Pro Ile Pro Leu Pro Leu Ile Ser Gln Tyr Leu Pro Leu
 385 390 395 400
 Gln Tyr Ser Lys Val Arg Asp Gly Ala Leu Ser Ser Thr Pro Arg Glu
 405 410 415
 Leu Ile Leu Asp His Ile Gln Asp Ile Leu His Gln Tyr His Ala Ala
 420 425 430
 Cys Glu Gly Val Thr Thr Gln His Ala
 435 440

<210> 9736

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 9736

Ser Thr Cys Cys Ala Asn Arg Leu Asn Pro Arg Arg Leu Arg Pro Arg
 1 5 10 15
 Lys Arg Asn Leu Lys Met Ala Ser Asn His Thr Thr Leu Pro Gly Val
 20 25 30
 Ser Glu Ser Glu Glu Thr Leu Leu Thr Gly Val Asn Glu Asn Val Tyr
 35 40 45
 Glu Asp Gln Ser Ile Gly Ala Glu Leu Thr Lys Lys Asp Ile Asn Arg
 50 55 60
 Val Ala Trp Arg Ser Met Leu Leu Gln Ala Ser Phe Asn Tyr Glu Arg
 65 70 75 80
 Met Gln Ala Ser Gly Trp Leu Tyr Gly Leu Leu Pro Ala Leu Lys Lys
 85 90 95
 Ile His Thr Asn Lys Arg Asp Leu Ala Arg Ala Met Lys Gly His Met
 100 105 110

Gly Phe Phe Asn Thr His Pro Phe Leu Val Thr Phe Val Ile Gly Ile
 115 120
 Ile Leu Ala Met Glu Arg Ser Lys Gln Asp Val Asn Ser Ile Gln Ser
 130 135
 Thr Lys Ile Ala Val Gly Ala Pro Leu Gly Gly Ile Gly Asp Ala Met
 145 150 155 160
 Phe Trp Leu Thr Leu Leu Pro Ile Cys Gly Gly Ile Gly Ala Ser Leu
 165 170 175
 Ala Leu Gln Gly Ser Ile Leu Gly Ala Val Phe Ile Val Leu Phe
 180 185 190
 Asn Val Val His Leu Gly Leu Arg Phe Gly Leu Ala His Tyr Ala Tyr
 195 200 205
 Arg Met Gly Val Ala Ala Ile Pro Leu Ile Lys Ala Asn Thr Lys Lys
 210 215 220
 Val Gly His Ala Ala Ser Ile Val Gly Met Thr Val Ile Gly Ala Leu
 225 230 235 240
 Val Ala Thr Tyr Val Arg Leu Asn Thr Thr Leu Glu Ile Lys Ala Gly
 245 250 255
 Asp Ala Val Val Lys Leu Gln Thr Asp Val Ile Asp Lys Leu Met Pro
 260 265 270
 Ala Phe Leu Pro Leu Val Tyr Thr Leu Ile Met Phe Trp Leu Val Arg
 275 280 285
 Arg Gly Trp Ser Pro Leu Arg Leu Ile Gly Ile Thr Val Val Leu Gly
 290 295 300
 Val Val Gly Lys Phe Cys His Phe Leu
 305 310

<210> 9737

<211> 350

<212> PRT

<213> *Enterobacter cloacae*

<400> 9737

Ser Val Leu Ser Arg Gly Ser His Phe His Val Ala Pro Ser Arg Thr
 1 5 10 15
 Tyr Asp Leu Asn Phe Tyr Lys Ser Ser Ile Met Ser Asp Lys Arg Thr
 20 25 30
 Ala Glu Glu Gly Arg Phe Ala Gly Leu Ala Glu Glu Glu Leu
 35 40 45
 Val Ala Arg Val Ala Trp Cys Tyr Tyr His Asp Gly Leu Thr Gln Asn
 50 55 60
 Asp Ile Gly Glu Arg Leu Gly Leu Pro Arg Leu Lys Ile Ser Arg Leu
 65 70 75 80
 Leu Glu Lys Gly Arg Gln Ser Gly Val Ile Arg Val Gln Ile Asn Ser
 85 90 95
 Arg Tyr Glu Gly Cys Leu Ala Leu Glu Thr Glu Leu Gln Gln Arg Phe
 100 105 110
 Gly Leu Lys Leu Val Arg Val Met Pro Ala Leu Asn Thr Pro Pro Met
 115 120 125
 Asn Val Arg Leu Gly Ile Gly Ala Ala Gln Ser Leu Met Gly Val Leu
 130 135 140
 Glu Pro Gly Gln Leu Leu Ala Val Gly Phe Gly Glu Thr Thr Met Ser
 145 150 155 160
 Ser Leu Gln His Leu Ser Gly Phe Ile Ser Ser Gln Gln Ile Arg Leu
 165 170 175
 Val Thr Leu Ser Gly Gly Val Gly Pro Tyr Met Thr Gly Ile Gly Gln
 180 185 190
 Leu Asp Ala Ala Cys Ser Val Ser Met Ile Pro Ala Pro Leu Arg Val
 195 200 205
 Ser Ser Ala Glu Val Ala Gly Ile Leu Lys Arg Glu Thr Ser Val Arg
 210 215 220

Asp Val Ile Leu Ala Ala Thr Ala Ala Asp Val Ala Val Val Gly Ile
 225 230 240
 Gly Ser Val Asn Gln Arg Arg Asp Ala Thr Ile Leu Arg Ser Gly Tyr
 245 250 255
 Ile Ser Glu Gly Glu Gln Leu Met Tyr Ala Arg Lys Gly Ala Val Gly
 260 265 270
 Asp Ile Leu Gly Tyr Phe Leu Asn Ala Glu Gly Glu Cys Val Glu Glu
 275 280 285
 Leu Glu Ile His Lys Glu Leu Leu Gly Val Thr Leu Asp Glu Leu Ala
 290 295 300
 Gln Leu Pro Thr Ile Val Gly Val Ala Gly Gly Glu Glu Lys Ala Asp
 305 310 315 320
 Ala Ile Tyr Ala Ala Leu Lys Gly Arg Arg Ile Asn Gly Leu Val Thr
 325 330 335
 Glu Glu Thr Thr Ala Arg Ala Val Leu Ala Leu Ala Gly 350
 340 345

<210> 9738

<211> 688

<212> PRT

<213> *Enterobacter cloacae*

<400> 9738

Leu Ile Arg Pro His Asn Asn Asn Phe Thr Leu Glu Glu Thr Met Ser
 1 5 10 15
 Arg Tyr Pro Ser Leu Phe Ala Pro Leu Asp Leu Gly Phe Thr Thr Leu
 20 25 30
 Lys Asn Arg Val Leu Met Gly Ser Met His Thr Gly Leu Glu Glu Arg
 35 40 45
 Pro Asp Gly Ala Glu Arg Leu Ala Ala Phe Tyr Ala Glu Arg Ala Arg
 50 55 60
 His Gly Val Ala Leu Ile Val Thr Gly Gly Val Ala Pro Ala Pro Ser
 65 70 75 80
 Gly Val Thr Met Glu Gly Gly Ala Val Leu Asn Asp Ala Ser Gln Leu
 85 90 95
 Ser His His Arg Ile Val Thr Asp Ala Val His Arg Glu Gly Gly Lys
 100 105 110
 Ile Ala Leu Gln Ile Leu His Thr Gly Arg Tyr Ser Tyr Gln Pro Asn
 115 120 125
 Leu Val Ala Pro Ser Ala Ile Gln Ala Pro Ile Asn Arg Phe Thr Pro
 130 135 140
 His Ala Leu Ser His Asp Glu Ile Leu Ala Leu Ile Asp Asp Phe Ala
 145 150 155 160
 Arg Cys Ala Ala Leu Ala Arg Glu Ala Gly Tyr Asp Gly Val Glu Val
 165 170 175
 Met Gly Ser Glu Gly Tyr Leu Ile Asn Glu Phe Leu Ala Ala Arg Thr
 180 185 190
 Asn Gln Arg Asp Asp Glu Trp Gly Gly Asp Tyr Ala Arg Arg Met Arg
 195 200 205
 Phe Ala Val Glu Val Val Arg Ala Val Arg Glu Arg Ala Gly Ala Asp
 210 215 220
 Phe Ile Ile Ile Phe Arg Leu Ser Met Leu Asp Leu Val Glu Gly Gly
 225 230 235 240
 Gly Thr Phe Asp Glu Thr Val Gln Leu Ala Gln Ala Ile Glu Ala Ala
 245 250 255
 Gly Ala Thr Ile Ile Asn Thr Gly Ile Gly Trp His Glu Ala Arg Ile
 260 265 270
 Pro Thr Ile Ala Thr Pro Val Pro Arg Ala Ala Phe Ser Trp Val Thr
 275 280 285
 Arg Lys Leu Lys Gly Lys Val Ser Val Pro Leu Val Thr Thr Asn Arg
 290 295 300

Ile Asn Asp Pro Gln Val Ala Asp Asp Val Ile Ser Arg Gly Asp Ala
 305 310 315 320
 Asp Met Val Ser Met Ala Arg Pro Phe Leu Ala Asp Ala Glu Leu Leu
 325 330 335
 Ser Lys Ala Gln Ser Gly Arg Ala Asp Glu Ile Asn Thr Cys Ile Gly
 340 345 350
 Cys Asn Gln Ala Cys Leu Asp Gln Ile Phe Ala Gly Lys Val Thr Ser
 355 360 365
 Cys Leu Val Asn Pro Arg Ala Cys His Glu Thr Lys Met Pro Val Val
 370 375 380
 Thr Thr Val Asn Lys Lys Arg Leu Ala Val Val Gly Ala Gly Pro Ala
 385 390 395 400
 Gly Leu Ala Phe Ala Val Asn Ala Ala Ser Arg Gly His Gly Val Thr
 405 410 415
 Leu Phe Asp Ala Gln Gly Glu Ile Gly Gly Gln Phe Asn Ile Ala Lys
 420 425 430
 Gln Ile Pro Gly Lys Asp Glu Phe Tyr Glu Thr Leu Arg Tyr Tyr Arg
 435 440 445
 Arg Met Ile Glu Val Thr Gly Val Asp Leu Arg Leu Asn Gln Phe Val
 450 455 460
 Ser Ala Ala Asp Leu Ile Gly Phe Asp Glu Val Ile Leu Ala Ser Gly
 465 470 475 480
 Ile Ala Pro Arg Thr Pro Ala Ile Glu Gly Ile Asp His Pro Lys Val
 485 490 495
 Leu Ser Tyr Leu Asp Val Leu Arg Asp Lys Ala Pro Val Gly Glu Lys
 500 505 510
 Val Ala Ile Ile Gly Cys Gly Gly Ile Gly Phe Asp Thr Ala Met Tyr
 515 520 525
 Leu Ser Gln Pro Gly Glu Ala Thr Ser Gln Asn Ile Ala Glu Phe Cys
 530 535 540
 Val Glu Trp Gly Ile Asp Thr Ser Leu Ser Gln Ser Gly Gly Leu Arg
 545 550 555 560
 Pro Glu Gly Pro Gln Leu Pro Lys Ser Pro Arg Gln Ile Val Met Leu
 565 570 575
 Gln Arg Lys Ala Ser Lys Pro Gly Glu Gly Leu Gly Lys Thr Thr Gly
 580 585 590
 Trp Ile His Arg Ala Thr Leu Leu Ser Arg Gly Val Lys Met Ile Pro
 595 600 605
 Ala Val Ser Tyr Gln Lys Ile Asp Asp Asp Gly Leu His Val Leu Ile
 610 615 620
 Gly Gly Glu Pro Gln Leu Leu Arg Val Asp His Val Ile Leu Cys Ala
 625 630 635 640
 Gly Gln Glu Pro Lys Arg Asp Leu Ala Asp Pro Leu Arg Glu Ala Gly
 645 650 655
 Lys Thr Val His Leu Ile Gly Gly Cys Asp Val Ala Met Glu Leu Asp
 660 665 670
 Ala Arg Arg Ala Ile Ala Gln Gly Thr Gln Leu Ala Leu Val Ile
 675 680 685

<210> 9739

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 9739

Asn Ala Gly Leu Tyr Glu Ile Arg Arg Pro Thr Asp Val Leu Pro Asp
 1 5 10 15
 Ala Ala Ala Arg Arg Ser Ala Gly Val Trp Pro Gly Arg Val Pro Gly
 20 25 30
 Arg Thr Val Glu Glu Glu Ile Arg Gly Gln Gly Leu Thr Met Val Ile
 35 40 45

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Ser Pro Leu Ala Leu Arg Arg Phe Ser Tyr Ala Ile Val Ala Leu Met
 50          55          60
Met Phe Ser Ala Leu Ile Leu Leu Trp Ser Ala Leu Gln His Gln Glu
 65          70          75
Ser Thr Leu Ala Ile Arg Pro Val Ser Gln Gly Thr Ser Val Pro Asp
      85          90          95
Gly Phe Ser Ile Trp His His Leu Asp Ala Asn Gly Ile Arg Phe Lys
      100          105          110
Ser Ile Thr Pro Gln Asn Asp Val Leu Leu Ile Lys Phe Asp Ser Ser
      115          120          125
Ala Gln Ser Ala Ala Ala Lys Ala Val Leu Asp Arg Thr Leu Pro Gln
      130          135          140
Gly Tyr Ile Ile Ala Gln Asp Asp Asp Ser His Val Ala Ser Trp
      145          150          155          160
Met Ser Arg Leu Arg Asp Thr Ser His Arg Phe Gly
      165          170

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<210> 9740

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 9740

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Ser Leu Asp Gly Cys Gly Tyr Trp Arg Arg Ser Gly Cys Gly Ala Gly
 1          5          10
Cys Pro Ala Asp Ala Ser Leu Ile Met Glu Asp Pro Arg His Ala Gln
      20          25          30
Gly Pro Ala Lys Asn Val Leu Gly Ile Gly Gln Arg Ile Leu Thr Thr
      35          40          45
Leu Val Gly Ile Ala Glu Thr Arg Val Arg Leu Ala Val Val Glu Leu
      50          55          60
Glu Glu Glu Lys Ala Asn Leu Phe Gln Met Leu Leu Met Leu Gly Leu
      65          70          75
Thr Met Leu Phe Ala Ala Phe Gly Leu Met Ser Leu Met Val Leu Ile
      85          90          95
Ile Trp Ala Ile Asp Pro Gln Tyr Arg Leu Asn Ala Met Ile Ala Thr
      100          105          110
Thr Val Val Leu Leu Val Ala Ala Leu Ile Gly Gly Ile Trp Thr Leu
      115          120          125
His Lys Ala Arg Thr Ser Thr Phe Leu Arg His Thr Arg Gln Glu Leu
      130          135          140
Ala Asn Asp Arg Ala Leu Leu Glu Asp Asp Lys Ser
      145          150          155

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<210> 9741

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 9741

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Cys Gly Ser Leu Glu Ser Lys Met Lys Lys Leu Glu Asp Val Gly Val
 1          5          10          15
Leu Val Ala Arg Ile Leu Met Pro Ile Leu Phe Ile Thr Ala Gly Trp
      20          25          30
Gly Lys Ile Thr Gly Tyr Ala Gly Thr Gln Gln Tyr Met Glu Ala Met
      35          40          45
Gly Val Pro Gly Phe Leu Leu Pro Leu Thr Ile Leu Leu Glu Phe Gly
      50          55          60
Gly Gly Leu Ala Val Leu Phe Gly Phe Leu Thr Arg Thr Thr Ala Leu
      65          70          75          80
Phe Thr Ala Gly Phe Thr Leu Leu Thr Ala Phe Ile Phe His Ser Asn

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[illegible]

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<210> 9742
<211> 353
<212> PRT
<213> Enterobacter cloacae
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Ala	Gly	Tyr	Thr	Asp	Tyr	Ile	Gln	Ser	Glu	Glu	Thr	Ser	Pro	Arg	Phe
1				5					10					15	
Cys	Tyr	Leu	Thr	Glu	Glu	Lys	Lys	Met	Gly	Gln	Leu	Val	Asp	Gly	Val
			20					25					30		
Trp	Gln	Asp	Val	Trp	Tyr	Asp	Thr	Lys	Ser	Thr	Gly	Gly	Arg	Phe	Lys
		35					40					45			
Arg	Ser	Val	Ser	Ala	Phe	Asn	Asn	Trp	Leu	Thr	Ala	Asp	Gly	Ala	Pro
	50					55					60				
Gly	Pro	Ser	Gly	Glu	Gly	Gly	Phe	Ala	Ala	Glu	Lys	Asp	Arg	Tyr	His
65					70					75				80	
Leu	Tyr	Val	Ser	Leu	Ala	Cys	Pro	Trp	Ala	His	Arg	Thr	Leu	Ile	Val
				85					90					95	
Arg	Lys	Leu	Lys	Gly	Leu	Glu	Ser	Leu	Ile	Pro	Val	Ser	Val	Val	Asn
			100					105					110		
Pro	Leu	Met	Leu	Glu	Asn	Gly	Trp	Thr	Phe	Asp	Ser	Asp	Phe	Pro	Ala
		115					120					125			
Ala	Thr	Gly	Asp	Glu	Leu	Tyr	His	His	Asp	Phe	Leu	Tyr	Gln	Leu	Tyr
	130					135					140				
Leu	Arg	Ala	Asp	Pro	His	Tyr	Thr	Gly	Arg	Val	Thr	Val	Pro	Val	Leu
145					150					155				160	
Trp	Asp	Lys	Lys	Asn	Gln	Thr	Ile	Val	Ser	Asn	Glu	Ser	Ala	Glu	Ile
				165					170					175	
Ile	Arg	Met	Phe	Asn	Thr	Ala	Phe	Asp	Ala	His	Gly	Ala	Arg	Ala	Gly
			180					185					190		
Asp	Tyr	Tyr	Pro	Val	Glu	Leu	Arg	Glu	Lys	Ile	Asp	Glu	Leu	Asn	Gly
		195					200					205			
Trp	Ile	Tyr	Asp	Asn	Val	Asn	Asn	Gly	Val	Tyr	Lys	Ala	Gly	Phe	Ala
	210					215					220				
Thr	Ser	Gln	Glu	Ala	Tyr	Asp	Glu	Ala	Val	Gly	Asn	Val	Phe	Gly	Ser
225					230					235				240	
Leu	Glu	Arg	Leu	Glu	Gln	Ile	Leu	Gly	Gln	His	Arg	Tyr	Leu	Thr	Gly
				245					250					255	
Asp	Arg	Leu	Thr	Glu	Ala	Asp	Ile	Arg	Leu	Trp	Thr	Thr	Leu	Ile	Arg
		260						265					270		
Phe	Asp	Pro	Val	Tyr	Val	Thr	His	Phe	Lys	Cys	Asp	Lys	His	Arg	Ile
		275					280					285			
Ser	Asp	Tyr	Leu	Asn	Leu	His	Gly	Phe	Leu	Arg	Asp	Ile	Tyr	Gln	Met
		290				295					300				
Pro	Gly	Ile	Ala	Glu	Thr	Val	Asn	Phe	Asp	His	Ile	Arg	Thr	His	Tyr
305					310					315				320	
Phe	Arg	Ser	His	Lys	Thr	Ile	Asn	Pro	Thr	Gly	Ile	Ile	Ser	Ile	Gly
				325					330					335	
Pro	Trp	Gln	Asp	Leu	Asp	Glu	Pro	His	Gly	Arg	Asp	Val	Arg	Phe	Gly
		340						345					350		

<210> 9743
 <211> 163
 <212> PRT
 <213> Enterobacter cloacae

<400> 9743
 Lys Glu Glu Asn Ala Met Pro Asn Ile Val Leu Cys Arg Ile Asp Glu
 1 5 10 15
 Arg Leu Ile His Gly Gln Val Gly Val Gln Trp Val Gly Phe Ala Gly
 20 25 30
 Ala Asn Leu Val Leu Val Ala Asn Asp Glu Val Ala Asp Asp Pro Val
 35 40 45
 Gln Gln Asn Leu Met Glu Met Val Leu Ala Glu Gly Ile Ala Val Arg
 50 55 60
 Phe Trp Ser Leu Gln Lys Val Ile Asp Asn Ile His Arg Ala Ala Asp
 65 70 75 80
 Arg Gln Lys Ile Leu Leu Val Cys Lys Thr Pro Ala Asp Phe Leu Thr
 85 90 95
 Leu Val Glu Gly Gly Val Pro Ile Thr Arg Ile Asn Val Gly Asn Met
 100 105 110
 His Tyr Ala Ser Gly Lys Gln Gln Ile Ala Lys Thr Val Ser Val Asp
 115 120 125
 Ala Asn Asp Ile Ala Ala Phe Asn Gly Leu Lys Ala Ala Gly Val Glu
 130 135 140
 Cys Phe Val Gln Gly Val Pro Thr Glu Thr Ala Leu Asp Leu Phe Lys
 145 150 155 160
 Leu Leu

<210> 9744
 <211> 392
 <212> PRT
 <213> Enterobacter cloacae

<400> 9744
 Thr Cys Thr Leu Ser Arg Gly Ser Ala Arg Arg Gly Arg Asp Met Ser
 1 5 10 15
 Gln Leu Leu Arg Ala Arg Arg Leu Leu Thr Gly Gln Gly Trp Leu Asp
 20 25 30
 Asp His Gln Leu Arg Met Asp Arg Gly Val Ile Thr Ala Ile Glu Pro
 35 40 45
 Ile Pro Ala Gly Val Asn Thr Arg Glu Ala Asp Leu Leu Cys Pro Ala
 50 55 60
 Tyr Ile Asp Ile His Phe His Gly Gly Ala Gly Val Asp Val Met Asp
 65 70 75 80
 Asp Ala Pro Asp Val Leu Asp Arg Leu Ala Leu His Lys Ala Arg Glu
 85 90 95
 Gly Val Gly Ala Phe Leu Pro Thr Thr Val Thr Ala Ser Leu Glu Ala
 100 105 110
 Ile His Gly Ala Leu Arg Arg Ile Ala Arg Arg Cys His Ala Gly Gly
 115 120 125
 Pro Gly Ala Gln Leu Leu Gly Ser Tyr Leu Glu Gly Pro Tyr Phe Thr
 130 135 140
 Pro Gln Asn Lys Gly Ala His Pro Pro Glu Leu Phe Arg Glu Leu Asp
 145 150 155 160
 Leu Ala Glu Leu Asp Glu Leu Ile Ala Val Ser Gln Asn Thr Leu Arg
 165 170 175
 Val Val Ala Leu Ala Pro Glu Lys Val Asp Ala Leu Lys Ala Ile His
 180 185 190
 His Leu Lys Gln Lys Gly Ile Arg Val Met Leu Gly His Ser Ala Ala
 195 200 205

Thr Tyr Ala Gln Thr Leu Ala Ala Phe Asp Ala Gly Ala Asp Gly Leu
 210 215 220
 Val His Cys Tyr Asn Gly Met Thr Gly Leu His His Arg Glu Pro Gly
 225 230 235
 Met Val Gly Ala Gly Leu Thr Asp Pro Arg Ala Trp Leu Glu Leu Ile
 245 250 255
 Ala Asp Gly His His Val His Pro Gly Ala Met Arg Leu Cys Cys Cys
 260 265 270
 Cys Ala Lys Asp Arg Thr Val Leu Ile Thr Asp Ala Met Gln Ala Ala
 275 280 285
 Gly Met Pro Asp Gly Gly Tyr Thr Leu Cys Gly Glu Ser Val Glu Met
 290 295 300
 Gln Gly Gly Val Val Arg Thr Ala Ser Gly Gly Leu Ala Gly Ser Thr
 305 310 315
 Leu Ala Leu Asp Ala Ala Val Arg Asn Met Val Glu His Thr Gly Val
 325 330 335
 Ala Pro Glu Asn Ala Ile His Met Ala Ser Leu His Pro Ala Arg Leu
 340 345 350
 Leu Gly Met Asp His Leu Leu Gly Ser Leu Ala Pro Gly Lys Arg Ala
 355 360 365
 Asn Ile Ile Ala Leu Asp Ala Gly Leu His Leu Arg Gln Ile Trp Ile
 370 375 380
 Gln Gly Gln Ala Leu Ser Leu
 385 390

<210> 9745

<211> 382

<212> PRT

<213> Enterobacter cloacae

<400> 9745

Val Met Pro Gln Thr Thr Thr Thr Thr Gly Thr Trp Thr Glu Lys Glu
 1 5 10 15
 Ile Arg Gln Gln Pro Ala Ser Trp Leu Arg Ser Leu Asn Asn Ile Asp
 20 25 30
 Asn Leu Arg Ala Ser Ile Asp Ser Phe Leu Thr Pro Leu Leu Arg Lys
 35 40 45
 Pro Asp Leu Arg Ile Val Leu Thr Gly Ala Gly Thr Ser Ala Phe Ile
 50 55 60
 Gly Asp Ile Ile Ala Pro Trp Leu Ala Ser His Thr Arg Lys Asn Ile
 65 70 75 80
 Thr Ala Ile Pro Thr Thr Asp Leu Val Thr Asn Pro Met Asp Tyr Phe
 85 90 95
 Ser Pro Ala His Pro Leu Leu Leu Val Ser Phe Ala Arg Ser Gly Asn
 100 105 110
 Ser Pro Glu Ser Val Ala Ala Val Glu Leu Ala Asn Gln Phe Val Pro
 115 120 125
 Glu Cys Tyr His Leu Ser Ile Thr Cys Asn Glu Ala Gly Ser Leu Tyr
 130 135 140
 Gln Asn Ala Val Asp Ser Asp Asn Ala Cys Ala Leu Leu Met Pro Ala
 145 150 155 160
 Glu Thr His Asp Arg Gly Phe Ala Met Thr Ser Ser Ile Thr Thr Met
 165 170 175
 Met Ala Ser Cys Leu Ala Val Phe Ala Pro Glu Thr Ile Asn Ser Lys
 180 185 190
 Thr Phe Arg Asp Val Ser Asp Arg Cys Gln Ala Ile Leu Thr Ser Leu
 195 200 205
 Gly Asp Phe Ser Pro Gly Val Phe Gly Asn Glu Pro Trp Lys Arg Ile
 210 215 220
 Val Tyr Leu Gly Ser Gly Gly Leu Gln Gly Ala Arg Glu Ser Ala
 225 230 235 240

Leu Lys Val Leu Glu Leu Thr Ala Gly Lys Leu Ala Ala Phe Tyr Asp
 245 250 255
 Ser Pro Thr Gly Phe Arg His Gly Pro Lys Ser Leu Val Asp Asn Glu
 260 265 270
 Thr Leu Val Val Val Phe Val Ser Ser His Pro Tyr Thr Arg Gln Tyr
 275 280 285
 Asp Leu Asp Leu Leu Ala Glu Leu Arg Arg Asp Arg Gln Ala Met Arg
 290 295 300
 Val Val Ala Ile Ala Ala Glu Thr Asp Pro Val Ile Glu Ala Gly Pro
 305 310 315 320
 His Ile Leu Leu Pro Ser Arg Ser Phe Asn Asp Met Glu Gln Ala
 325 330 335
 Phe Cys Phe Leu Met Tyr Ala Gln Val Phe Ala Leu Thr Gln Ser Leu
 340 345 350
 His Val Gly Asn Thr Pro Asp Thr Pro Ser Ala Ser Gly Thr Val Asn
 355 360 365
 Arg Val Val Gln Gly Val Val Ile His Pro Trp Gln Ala
 370 375 380

<210> 9746

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 9746

Glu Asp Arg Leu Met Ser Ile Ile Ser Thr Lys Tyr Leu Leu Gln Asp
 1 5 10 15
 Ala Gln Ala Lys Gly Phe Ala Val Pro Ala Phe Asn Ile His Asn Ala
 20 25 30
 Glu Thr Ile Gln Ala Ile Leu Glu Val Cys Ser Glu Met Arg Ser Pro
 35 40 45
 Val Ile Leu Ala Gly Thr Pro Gly Thr Phe Lys His Ile Ala Leu Glu
 50 55 60
 Glu Ile Tyr Ala Leu Cys Ser Ala Tyr Ser Leu Thr Tyr Asp Met Pro
 65 70 75 80
 Leu Ala Leu His Leu Asp His His Glu Ser Leu Asp Asp Ile Arg Arg
 85 90 95
 Lys Val His Ala Gly Val Arg Ser Ala Met Ile Asp Gly Ser His Tyr
 100 105 110
 Pro Phe Glu Gln Asn Val Lys Leu Val Lys Ser Val Val Asp Phe Cys
 115 120 125
 His Leu Asn Asp Cys Ser Val Glu Ala Glu Leu Gly Arg Leu Gly Gly
 130 135 140
 Val Glu Asp Asp Met Ser Val Asp Ala Glu Ser Ala Phe Leu Thr Asp
 145 150 155 160
 Pro Gln Glu Ala Lys Arg Phe Val Glu Leu Thr Gly Val Asp Ser Leu
 165 170 175
 Ala Val Ala Ile Gly Thr Ala His Gly Leu Tyr Thr Lys Arg Pro Lys
 180 185 190
 Ile Asp Phe Gln Arg Leu Ala Glu Ile Arg Glu Val Met Thr Val Pro
 195 200 205
 Leu Val Leu His Gly Ala Ser Asp Val Pro Asp Glu Asp Val Arg Arg
 210 215 220
 Thr Ile Glu Leu Gly Val Cys Lys Val Asn Val Ala Thr Glu Leu Lys
 225 230 235 240
 Ile Ala Phe Ser Asp Ala Val Lys Ala Trp Phe Ala Glu Asn Pro Gln
 245 250 255
 Gly Asn Asp Pro Arg Phe Tyr Met Arg Val Gly Met Asp Ala Met Lys
 260 265 270
 Glu Val Val Arg Ser Lys Ile Thr Val Cys Gly Ser Ala Asn Arg Leu
 275 280 285

Leu Leu Pro Ala Glu Ala
290 295

<210> 9747

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 9747

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Arg Arg Val Leu Lys Pro Asp Ser Ala Phe His Tyr Pro Lys Asn Pro
1      5      10      15
Arg Ser Pro Tyr Met Thr Gln Glu Lys Ser Phe Lys Ser Lys Ala Trp
      20      25      30
Glu Phe Phe Gln Ser Leu Gly Lys Thr Phe Met Phe Pro Val Ser Leu
      35      40      45
Leu Ala Phe Met Gly Leu Leu Leu Gly Ile Gly Ser Ser Val Thr Ser
      50      55      60
Pro Ser Thr Ile Lys Ser Phe Pro Phe Leu Gly Gly Glu Leu Thr Gln
65      70      75      80
Leu Thr Phe Gly Phe Ile Ala Met Val Gly Gly Phe Ala Phe Thr Tyr
      85      90      95
Leu Pro Leu Met Phe Ala Met Ala Ile Pro Met Gly Leu Ala Arg Arg
      100      105      110
Asn Lys Ala Val Gly Ala Phe Ala Gly Phe Val Gly Tyr Met Leu Met
      115      120      125
Asn Met Ser Ile Asn Tyr Tyr Leu Thr Ala Thr His Gln Leu Ala Asp
      130      135      140
Ala Ala Thr Met Arg Gln Val Gly Gln Ser Ile Val Leu Gly Ile Gln
145      150      155      160
Thr Leu Glu Met Gly Val Leu Gly Gly Ile Val Val Gly Val Ile Thr
      165      170      175
Tyr Phe Leu His Glu Asn
      180

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<210> 9748

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9748

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Val Tyr Pro Phe Ser His Tyr Phe Gly Val Leu Met Asn Gln Leu Thr
1      5      10      15
Tyr Leu Gln Gly Tyr Pro Glu His Leu Leu Ser Gln Val Arg Asp Leu
      20      25      30
Ile Ala Ala Gly Lys Leu Gly Ala Val Leu Glu Lys Arg Tyr Pro Gly
      35      40      45
Thr His Asp Phe Ala Thr Asp Lys Ala Leu Trp Gln Tyr Thr Gln Asp
      50      55      60
Leu Lys Asn Gln Tyr Leu Lys Ser Ala Pro Pro Ile Asn Lys Val Met
65      70      75      80
Tyr Asp Asn Lys Ile His Val Leu Lys Asn Ala Leu Gly Leu His Thr
      85      90      95
Ala Ile Ser Arg Val Gln Gly Gly Lys Leu Lys Ala Lys Ala Glu Ile
      100      105      110
Arg Val Ala Thr Val Phe Arg Asn Ala Pro Glu Ala Phe Leu Arg Met
      115      120      125
Ile Val Val His Glu Leu Ala His Leu Lys Glu Lys Glu His Asp Lys
130      135      140
Ala Phe Tyr Ser Leu Cys Cys His Met Glu Pro Gln Tyr His Gln Leu
145      150      155      160
Glu Phe Asp Thr Arg Leu Trp Leu Thr His Leu Ser Leu Lys Ser Asn

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Ala Gln 165 170 175

<210> 9749
 <211> 333
 <212> PRT
 <213> Enterobacter cloacae

<400> 9749
 Pro Phe Leu Phe Phe Met Cys Lys Glu Asn Ser Met His Ser Val Gly
 1 5 10 15
 Thr Pro Met Leu Trp Gly Gly Phe Ala Val Val Val Leu Ile Met Leu
 20 25 30
 Ala Ile Asp Leu Phe Leu Gln Gly Arg Arg Gly Glu His Gly Met Ser
 35 40 45
 Val Lys Gln Ala Ala Val Trp Ser Leu Val Trp Val Thr Leu Ser Leu
 50 55 60
 Leu Phe Cys Ala Ala Phe Trp Trp Tyr Leu Ala Ser Thr Glu Gly Arg
 65 70 75 80
 Ala Val Ala Asp Pro Gln Ala Leu Ala Phe Leu Thr Gly Tyr Leu Ile
 85 90 95
 Glu Lys Ala Leu Ala Val Asp Asn Val Phe Val Trp Leu Met Leu Phe
 100 105 110
 Ser Tyr Phe Ala Val Pro Ala Ala Leu Gln Arg Arg Val Leu Val Tyr
 115 120 125
 Gly Val Leu Gly Ala Ile Val Leu Arg Thr Ile Met Ile Phe Ala Gly
 130 135 140
 Ser Trp Leu Ile Thr Gln Phe Glu Trp Leu Leu Tyr Val Phe Gly Ala
 145 150 155 160
 Phe Leu Leu Phe Thr Gly Val Lys Met Ala Leu Ala Lys Glu Asp Asp
 165 170 175
 Thr Gly Ile Gly Asp Lys Pro Leu Val Lys Trp Phe Arg Gly His Leu
 180 185 190
 Arg Met Thr Asp Lys Ile Glu Ser Glu His Phe Phe Val Arg Lys Asn
 195 200 205
 Gly Leu Leu Phe Ala Thr Pro Leu Leu Leu Val Leu Ile Leu Val Glu
 210 215 220
 Leu Ser Asp Val Ile Phe Ala Val Asp Ser Ile Pro Ala Ile Phe Ala
 225 230 235 240
 Val Thr Thr Asp Pro Phe Ile Val Leu Thr Ser Asn Leu Phe Ala Ile
 245 250 255
 Leu Gly Leu Arg Ala Met Tyr Phe Leu Leu Ala Gly Ala Ala Glu Arg
 260 265 270
 Phe Ser Met Leu Lys Tyr Gly Leu Ser Val Ile Leu Val Phe Ile Gly
 275 280 285
 Ile Lys Met Leu Ile Val Asp Phe Tyr His Ile Pro Ile Ala Ile Ser
 290 295 300
 Leu Gly Val Val Phe Gly Ile Leu Leu Val Thr Leu Ile Ile Asn Thr
 305 310 315 320
 Trp Val Asn Arg Gln His Asp Lys Lys Gln Gln Val
 325 330

<210> 9750
 <211> 270
 <212> PRT
 <213> Enterobacter cloacae

<400> 9750
 Gln Ile Ile Arg Arg Thr Leu Pro Gly Ala His Met Glu Ile Thr Glu
 1 5 10 15

Ser Arg Arg Leu Tyr Gln Gln Leu Ala Ala Glu Leu Lys Asp Arg Ile
 20 25 30
 Glu Gln Gly Val Tyr Leu Val Gly Asp Lys Leu Pro Ala Glu Arg Phe
 35 40 45
 Ile Ala Asp Glu Lys Ser Val Ser Arg Thr Val Val Arg Glu Ala Ile
 50 55 60
 Ile Met Leu Glu Val Glu Gly Tyr Val Glu Val Arg Lys Gly Ser Gly
 65 70 75 80
 Ile His Val Ile Ser Ser Gln Ala Lys His Ser Pro Thr Pro Asp Glu
 85 90 95
 Ser Leu Glu Phe Ala Ser Tyr Gly Pro Phe Glu Leu Leu Gln Ala Arg
 100 105 110
 Gln Leu Ile Glu Ser Asn Ile Ala Glu Phe Ala Ala Thr Gln Val Thr
 115 120 125
 Lys Gln Asp Ile Met Lys Leu Met Glu Ile Gln Asp His Ala Arg Lys
 130 135 140
 Glu Lys Cys Phe Arg Asp Ser Glu Trp Asp Leu Gln Phe His Val Gln
 145 150 155 160
 Val Ala Leu Ala Thr Gln Asn Thr Ala Leu Ala Ala Ile Val Glu Lys
 165 170 175
 Met Trp Thr Gln Arg Val His Asn Pro Tyr Trp Lys Lys Leu His Asp
 180 185 190
 His Ile Asp Ser Arg Thr Val Asp Asn Trp Cys Asp Asp His Asp Gln
 195 200 205
 Ile Leu Lys Ala Leu Ile Arg Lys Asp Pro His Ala Ala Lys Leu Ala
 210 215 220
 Met Trp Gln His Leu Glu Asn Thr Lys Gln Met Leu Phe Asn Glu Thr
 225 230 235 240
 Ser Asp Asp Phe Glu Phe Asn Ala Asp Arg Tyr Leu Phe Ala Asp Asn
 245 250 255
 Pro Val Val His Leu Asp Thr Ala Thr Asn Leu Ala Lys
 260 265 270

<210> 9751

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 9751

Met Glu Leu Leu Thr Gln Leu Leu Asn Ala Leu Trp Ala Gln Asp Phe
 1 5 10 15
 Glu Thr Leu Ala Asn Pro Ser Met Ile Gly Met Leu Tyr Phe Val Leu
 20 25 30
 Phe Met Ile Leu Phe Leu Glu Asn Gly Leu Leu Pro Ala Ala Phe Leu
 35 40 45
 Pro Gly Asp Ser Leu Leu Val Leu Val Gly Val Leu Cys Ala Lys Gly
 50 55 60
 Ala Met Ala Phe Pro Gln Thr Val Leu Leu Leu Thr Ile Ala Ala Ser
 65 70 75 80
 Leu Gly Cys Trp Val Ser Tyr Ile Gln Gly Arg Trp Leu Gly Asn Thr
 85 90 95
 Arg Ile Val Gln Asn Trp Leu Ser His Leu Pro Ala His Tyr His Gln
 100 105 110
 Arg Ala His His Leu Phe His Lys His Gly Leu Ser Ala Leu Leu Ile
 115 120 125
 Gly Arg Phe Ile Ala Phe Val Arg Thr Leu Leu Pro Thr Ile Ala Gly
 130 135 140
 Leu Ser Gly Leu Ser Ser Thr Arg Phe Gln Phe Phe Asn Trp Met Ser
 145 150 155 160
 Gly Leu Leu Trp Val Leu Ile Leu Thr Thr Leu Gly Tyr Ala Leu Gly
 165 170 175

Lys Thr Pro Val Phe Met Lys Tyr Glu Asp Gln Leu Met Ser Cys Leu
 180 185 190
 Met Leu Leu Pro Val Val Leu Leu Val Phe Gly Leu Val Gly Ser Leu
 195 200 205
 Val Val Leu Trp Lys Lys Lys Tyr Gly Ala Arg Gly
 210 215 220

<210> 9752

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 9752

Arg Lys Ser Gln Gln Glu Arg Ile Met Ser Lys Asp Thr Thr Ser Glu
 1 5 10 15
 Asn Leu Arg Ala Glu Leu Lys Ser Leu Ala Asp Thr Leu Glu Glu Val
 20 25 30
 Leu Asn Ser Ser Ala Asp Lys Ser Lys Glu Glu Val Ser Lys Leu Arg
 35 40 45
 Ser Lys Ala Glu Gln Ala Leu Lys Glu Ser Arg Tyr Arg Leu Gly Glu
 50 55 60
 Thr Gly Asp Ala Leu Ala Lys Gln Thr Arg Glu Ala Ala Arg Ala
 65 70 75 80
 Asp Glu Tyr Val Arg Asp Asn Pro Trp Thr Gly Val Gly Ile Gly Ala
 85 90 95
 Ala Val Gly Val Val Leu Gly Val Leu Leu Thr Arg Arg
 100 105 110

<210> 9753

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 9753

Leu Ile Lys Arg Gln Gly Lys Met Asp Trp Tyr Leu Lys Val Leu Arg
 1 5 10 15
 Asn Tyr Phe Gly Phe Gly Gly Arg Ala Arg Arg Lys Glu Tyr Trp Met
 20 25 30
 Phe Val Leu Val Asn Phe Val Leu Ile Met Val Leu Gly Ile Val Asp
 35 40 45
 Lys Ile Leu Gly Trp Glu Arg Glu Gly Gly Glu Gly Ile Leu Thr Thr
 50 55 60
 Ile Tyr Gly Val Leu Val Leu Leu Pro Ser Trp Ala Val Leu Phe Arg
 65 70 75 80
 Arg Leu His Asp Thr Asp Arg Ser Ala Trp Trp Leu Leu Leu Leu
 85 90 95
 Ile Pro Leu Ile Gly Trp Ile Val Ile Leu Ile Phe Asn Cys Gln Ser
 100 105 110
 Gly Thr Pro Gly Glu Asn Arg Phe Gly Pro Asp Pro Lys Ala Ser Ala
 115 120 125

<210> 9754

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 9754

Arg Arg Pro Glu Trp Asn Ala Ser Phe Arg Ala Phe Gln Gln Arg Leu
 1 5 10 15

Leu Trp Ile Ser Leu Asn Cys Ser Glu Gly Phe Thr Met Glu Ile Ser
 20 25 30
 Leu Leu Gln Ala Phe Ala Leu Gly Leu Leu Ala Phe Ile Ala Gly Leu
 35 40 45
 Asp Met Phe Asn Gly Leu Thr His Met His Arg Pro Val Val Leu Gly
 50 55 60
 Pro Leu Val Gly Leu Ile Leu Gly Asp Leu His Thr Gly Ile Leu Thr
 65 70 75 80
 Gly Gly Thr Leu Glu Leu Val Trp Met Gly Leu Ala Pro Leu Ala Gly
 85 90 95
 Ala Gln Pro Pro Asn Val Ile Ile Gly Thr Ile Val Gly Thr Thr Phe
 100 105 110
 Ala Ile Thr Thr Gly Val Lys Pro Asp Val Ala Val Gly Val Ala Val
 115 120 125
 Pro Phe Ala Val Ala Val Gln Met Gly Ile Thr Phe Leu Phe Ser Val
 130 135 140
 Met Ser Gly Val Met Ser Arg Cys Asp Arg Met Ala Ala Asn Ala Asp
 145 150 155 160
 Thr Arg Gly Ile Glu Arg Val Asn Tyr Leu Ala Leu Leu Ala Leu Gly
 165 170 175
 Val Phe Tyr Phe Leu Cys Ala Phe Leu Pro Ile Tyr Phe Gly Ala Glu
 180 185 190
 His Ala Lys Thr Ala Ile Asp Val Leu Pro Glu Arg Leu Ile Asp Gly
 195 200 205
 Leu Gly Val Ala Gly Gly Ile Met Pro Ala Ile Gly Phe Ala Val Leu
 210 215 220
 Leu Lys Ile Met Met Lys Asn Val Tyr Ile Pro Tyr Phe Ile Ile Gly
 225 230 235 240
 Phe Val Ala Ala Ala Trp Leu Lys Leu Pro Val Leu Ala Ile Ala Ala
 245 250 255
 Ala Ala Leu Ala Met Ala Leu Ile Asp Leu Leu Arg Lys Ser Pro Glu
 260 265 270
 Pro Thr Ala Pro Ala Ala Gln Lys Glu Glu Phe Glu Asp Gly Ile
 275 280 285

<210> 9755

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 9755

Ile Leu Ser Leu Pro Val Lys Ser Lys Glu Val Ala Met Leu Gly Ile
 1 5 10 15
 Ile Leu Thr Gly His Gly Gly Phe Ala Ser Gly Leu Gln Gln Ala Met
 20 25 30
 Lys Gln Ile Leu Gly Glu Gln Pro Gln Phe Ile Ala Ile Asp Phe Pro
 35 40 45
 Glu Ser Ser Thr Thr Ala Arg Leu Thr Ala Gln Leu Glu Gln Ala Val
 50 55 60
 Asn Glu Leu Asp Ala Glu His Asp Ile Val Phe Leu Thr Asp Leu Leu
 65 70 75 80
 Gly Gly Thr Pro Phe Arg Val Ala Ser Thr Leu Ala Met Gln Arg Pro
 85 90 95
 Gly Ser Glu Val Ile Thr Gly Thr Asn Leu Gln Leu Leu Leu Glu Met
 100 105 110
 Val Leu Glu Arg Asp Gly Leu Ser Ser Glu Ala Phe Arg Leu Gln Ala
 115 120 125
 Leu Glu Cys Gly His Arg Gly Leu Thr Ser Leu Val Asp Glu Leu Ala
 130 135 140
 Arg Cys Arg Glu Glu Ala Pro Ala Glu Glu Gly Ile
 145 150 155

<210> 9756
 <211> 614
 <212> PRT
 <213> Enterobacter cloacae

<400> 9756

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Arg Glu Ala Arg Leu Asn Ser His His Gly Pro Phe Ala Met Val Asn
1      5      10
Asn Met Thr Asp Leu Thr Ala Gln Glu Ala Ala Trp Gln Thr Arg Asp
20      25      30
His Leu Asp Asp Pro Val Ile Gly Glu Leu Arg Asn Arg Phe Gly Pro
35      40      45
Asp Ala Phe Thr Val Gln Ala Thr Arg Thr Gly Val Pro Val Val Trp
50      55      60
Val Lys Arg Glu Gln Leu Leu Glu Val Val Asp Phe Leu Lys Lys Leu
65      70      75
Pro Lys Pro Tyr Val Met Leu Phe Asp Leu His Gly Met Asp Glu Arg
85      90      95
Leu Arg Thr His Arg Gln Gly Leu Pro Ala Ala Asp Phe Ser Val Phe
100     105     110
Tyr His Leu Ile Ser Ile Asp Arg Asn Thr Asp Ile Met Leu Lys Val
115     120     125
Ala Leu Ser Glu Asn Asp Met His Leu Pro Thr Ile Thr Lys Leu Phe
130     135     140
Pro Asn Ala Asn Trp Tyr Glu Arg Glu Thr Trp Glu Met Phe Gly Met
145     150     155
Thr Phe Asp Gly His Pro His Leu Thr Arg Ile Met Met Pro Gln Thr
165     170     175
Trp Thr Gly His Pro Leu Arg Lys Asp Tyr Pro Ala Arg Ala Thr Glu
180     185     190
Phe Asp Pro Phe Glu Leu Thr Lys Ala Lys Gln Asp Leu Glu Met Glu
195     200     205
Ala Leu Thr Phe Lys Pro Glu Asp Trp Gly Met Lys Arg Gly Thr Glu
210     215     220
Asn Glu Asp Phe Met Phe Leu Asn Leu Gly Pro Asn His Pro Ser Ala
225     230     235
His Gly Ala Phe Arg Ile Ile Leu Gln Leu Asp Gly Glu Glu Ile Val
245     250     255
Asp Cys Val Pro Asp Ile Gly Tyr His His Arg Gly Ala Glu Lys Met
260     265     270
Gly Glu Arg Gln Ser Trp His Ser Tyr Ile Pro Tyr Thr Asp Arg Ile
275     280     285
Glu Tyr Leu Gly Gly Cys Val Asn Glu Met Pro Tyr Val Leu Ala Val
290     295     300
Glu Lys Leu Ala Gly Ile Thr Val Pro Asp Arg Val Asn Val Ile Arg
305     310     315
Val Met Leu Ser Glu Leu Phe Arg Ile Asn Ser His Leu Leu Tyr Ile
325     330     335
Ser Thr Phe Ile Gln Asp Val Gly Ala Met Thr Pro Val Phe Phe Ala
340     345     350
Phe Thr Asp Arg Gln Lys Ile Tyr Asp Leu Val Glu Ala Ile Thr Gly
355     360     365
Phe Arg Met His Pro Ala Trp Phe Arg Ile Gly Gly Val Ala His Asp
370     375     380
Leu Pro Arg Gly Trp Asp Arg Leu Leu Arg Glu Phe Leu Asp Trp Met
385     390     395
Pro Lys Arg Leu Ala Ser Tyr Glu Lys Ala Ala Leu Arg Asn Ser Ile
405     410     415
Leu Lys Gly Arg Ser Gln Gly Val Ala Ala Tyr Gly Ala Lys Glu Ala
420     425     430

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Leu Glu Trp Gly Thr Thr Gly Ala Gly Leu Arg Ala Thr Gly Ile Asp
 435 440 445
 Phe Asp Val Arg Lys Ala Arg Pro Tyr Ser Gly Tyr Glu Asn Phe Asp
 450 455 460
 Phe Glu Val Pro Val Gly Gly Gly Val Ser Asp Cys Tyr Thr Arg Val
 465 470 475
 Met Leu Lys Val Glu Glu Leu Arg Gln Ser Leu Arg Ile Leu Glu Gln
 485 490 495
 Cys Leu Asn Asn Met Pro Glu Gly Pro Phe Lys Ala Asp His Pro Leu
 500 505 510
 Thr Thr Pro Pro Lys Glu Arg Thr Leu Gln His Ile Glu Thr Leu
 515 520 525
 Ile Thr His Phe Leu Gln Val Ser Trp Gly Pro Val Met Pro Ala Gln
 530 535 540
 Glu Ser Phe Gln Met Ile Glu Ala Thr Lys Gly Ile Asn Ser Tyr Tyr
 545 550 555 560
 Leu Thr Ser Asp Gly Ser Thr Met Ser Tyr Arg Thr Arg Val Arg Thr
 565 570 575
 Pro Ser Phe Ala His Leu Gln Gln Ile Pro Ala Ala Ile Arg Gly Ser
 580 585 590
 Leu Val Ser Asp Leu Ile Val Tyr Leu Gly Ser Ile Asp Phe Val Met
 595 600 605
 Ser Asp Val Asp Arg
 610

<210> 9757

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 9757

Pro Ser Gly Gly Lys Ser Met Ser Trp Leu Thr Pro Asp Leu Ile Asp
 1 5 10 15
 Ile Leu Leu Ser Ile Leu Lys Ala Val Val Ile Leu Leu Val Val Val
 20 25 30
 Thr Cys Gly Ala Phe Met Ser Phe Gly Glu Arg Arg Leu Leu Gly Leu
 35 40 45
 Phe Gln Asn Arg Tyr Gly Pro Asn Arg Val Gly Trp Gly Gly Ser Leu
 50 55 60
 Gln Leu Val Ala Asp Met Ile Lys Met Phe Phe Lys Glu Asp Trp Val
 65 70 75 80
 Pro Arg Phe Ser Asp Arg Val Ile Phe Thr Leu Ala Pro Met Ile Ala
 85 90 95
 Phe Thr Ser Leu Leu Leu Ala Phe Ala Ile Val Pro Val Ser Pro Thr
 100 105 110
 Trp Val Val Ala Asp Leu Asn Ile Gly Ile Leu Phe Phe Leu Met Met
 115 120 125
 Ala Gly Leu Ala Val Tyr Ala Val Leu Phe Ala Gly Trp Ser Ser Asn
 130 135 140
 Asn Lys Tyr Ser Leu Leu Gly Ala Met Arg Ala Ser Ala Gln Thr Leu
 145 150 155 160
 Ser Tyr Glu Val Phe Leu Gly Leu Ser Leu Met Gly Val Val Ala Gln
 165 170 175
 Ala Gly Ser Phe Asn Met Thr Asp Ile Val Asn Asn Gln Ala Asp Ile
 180 185 190
 Trp Asn Val Ile Pro Gln Phe Phe Gly Phe Ile Thr Phe Ala Ile Ala
 195 200 205
 Gly Val Ala Val Cys His Arg His Pro Phe Asp Gln Pro Glu Ala Glu
 210 215 220
 Gln Glu Leu Ala Asp Gly Tyr His Ile Glu Tyr Ser Gly Met Lys Phe
 225 230 235 240

Gly Leu Phe Phe Val Gly Glu Tyr Ile Gly Ile Val Thr Ile Ser Ala
 245 250 255
 Leu Met Val Thr Leu Phe Phe Gly Gly Trp His Gly Pro Phe Leu Pro
 260 265 270
 Pro Phe Ile Trp Phe Ala Leu Lys Thr Ala Phe Phe Met Met Met Phe
 275 280 285
 Ile Leu Ile Arg Ala Ala Leu Pro Arg Pro Arg Tyr Asp Gln Val Met
 290 295 300
 Ser Phe Gly Trp Lys Val Cys Leu Pro Leu Thr Leu Val Asn Leu Leu
 305 310 315 320
 Val Thr Ala Ala Val Ile Leu Trp Gln Gln Pro
 325 330

<210> 9758

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 9758

Phe Pro Val Arg Ala Asn Thr Arg Asn Ile Thr Ser Thr Gly Trp Arg
 1 5 10 15
 Val Trp Gln Ser Thr Ala Lys Ile Arg Ala Lys Gln Arg Thr Lys Pro
 20 25 30
 Ser Leu Ser Thr Ser Arg Ala Cys Tyr Arg Lys Glu Arg Ala Met Glu
 35 40 45
 Phe Ala Phe Tyr Ile Cys Gly Leu Ile Ala Ile Leu Ala Thr Leu Arg
 50 55 60
 Val Ile Thr His Thr Asn Pro Val His Ala Leu Leu Tyr Leu Ile Ile
 65 70 75 80
 Ser Leu Leu Ala Ile Ser Gly Val Phe Phe Ala Leu Gly Ala His Phe
 85 90 95
 Ala Gly Ala Leu Glu Ile Ile Val Tyr Ala Gly Ala Ile Met Val Leu
 100 105 110
 Phe Val Phe Val Val Met Met Leu Asn Leu Gly Gly Ser Glu Ile Glu
 115 120 125
 Gln Glu Arg Gln Trp Leu Lys Pro Gln Val Trp Ile Gly Pro Ala Ile
 130 135 140
 Leu Ser Ala Ile Met Leu Ala Val Ile Val Tyr Ala Ile Leu Gly Val
 145 150 155 160
 Asn Asp Gln Gly Ile Asp Gly Thr Pro Ile Ser Ala Lys Ala Val Gly
 165 170 175
 Ile Thr Leu Phe Gly Pro Tyr Val Leu Ala Val Glu Leu Ala Ser Met
 180 185 190
 Leu Leu Leu Ala Gly Leu Val Val Ala Phe His Val Gly Arg Glu Glu
 195 200 205
 Arg Val Gly Glu Val Leu Ser Asn Arg Thr Asp Asp Arg Ala Lys Arg
 210 215 220
 Lys Thr Glu Glu Arg Ala
 225 230

<210> 9759

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 9759

Gln Gly Glu Val Arg Val His Ser Ile Phe Leu Ala Leu Gln Ser Leu
 1 5 10 15
 Arg Thr Gln Leu Ala Gln Ala Leu Pro Ala Ile Pro Gly Leu Arg His
 20 25 30
 Phe Asp Val Ser Phe Pro Leu Asn Asp Ala Phe Asp Pro Leu Ala Trp

35 40 45
 Leu Gly Val Gln Arg Cys Tyr Pro Gln Phe Tyr Trp Gln Gln Arg Ser
 50 55 60
 Gly Asp Glu Glu Leu Ala Ala Leu Gly Ser Leu Ala Gln Phe Asp Ser
 65 70 75 80
 Leu Ala Ser Ala Ser Arg Phe Leu His Ala His Asp Val Ala Asn Asp
 85 90 95
 Thr Arg Ile Cys Gly Leu Asn Ala Phe Asn Pro Ala Gln Gly Lys Leu
 100 105 110
 Phe Leu Pro Arg Leu Leu Trp Arg Arg Ser Gly Gly Val Ala Thr Leu
 115 120 125
 Arg Leu Gln Leu Trp Ser Glu Thr Ser Leu Arg Glu Asp Ala Arg Glu
 130 135 140
 Ala Leu Asn Phe Val Asp Asn Leu Arg Asp Ala Ala Pro Ile Arg Pro
 145 150 155 160
 Leu Ser Val Gln Ile Val Gln Glu Thr His His Pro Glu Lys Pro Asp
 165 170 175
 Trp Leu Ala Leu Ile Arg Gln Ala Thr Asp Thr Leu Ala Arg Gly Asp
 180 185 190
 Phe Glu Lys Val Val Leu Ala Arg Ala Thr Asp Val Gln Cys Gln Gln
 195 200 205
 Pro Val Asn Ala Ile Ala Leu Met Ala Ala Ser Arg Ala Leu Asn Leu
 210 215 220
 Asn Cys Tyr His Phe Cys Met Val Phe Asp Ala Ser Asn Ala Phe Leu
 225 230 235 240
 Gly Ser Thr Pro Glu Arg Leu Trp Arg Arg Gly Thr Leu Leu Arg
 245 250 255
 Thr Glu Ala Leu Ala Gly Thr Val Ala Ser His Ser Asp Asp Lys Gln
 260 265 270
 Ala Gln Arg Leu Gly Asp Trp Leu Met Asn Asp Asp Lys Asn Gln Arg
 275 280 285
 Glu Asn Met Leu Val Val Glu Asp Ile Cys Gln Arg Leu Gln His His
 290 295 300
 Thr Arg Thr Leu Glu Ile Leu Pro Ala Gln Val Leu Arg Leu Arg Lys
 305 310 315 320
 Val Gln His Leu Arg Arg Cys Ile Trp Thr Glu Leu Lys Gln Pro Asp
 325 330 335
 Asp Glu Gln Cys Leu His Ile Leu Gln Pro Thr Ala Ala Val Ala Gly
 340 345 350
 Leu Pro Arg Gln Ala Ala Arg Glu Phe Ile Ala Lys Val Glu Pro Phe
 355 360 365
 Asp Arg Glu Trp Tyr Ala Gly Ser Ala Gly Tyr Leu Ser Arg Asp Gln
 370 375 380
 Ser Glu Phe Cys Val Ala Leu Arg Ser Ala Arg Val His Asn Ala Ala
 385 390 395 400
 Leu Arg Leu Tyr Ala Gly Ala Gly Ile Val Ser Gly Ser Asp Pro Glu
 405 410 415
 Gln Glu Trp Gln Glu Ile Glu Asn Lys Ala Ala Gly Leu Arg Ser Leu
 420 425 430
 Leu Leu Arg Asp
 435

<210> 9760

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 9760

Arg Arg Ala Glu Ala Ala Thr Ser Ala Cys Ala Gly Glu Ser Pro Val
 1 5 10 15
 Ile Leu Ala Gly Val Ser Gln Pro Gly Asn Pro Gly Tyr Pro Trp Leu

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<210> 9761
<211> 539
<212> PRT
<213> Enterobacter cloacae
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1	Asn	Ala	Asp	5	Gln	Pro	Arg	Gln	Gly	10	Ala	Arg	Ala	Gly	Cys	Gly
Gly	Pro	Cys	Arg	20	Ala	Asp	Gly	Gly	Asp	25	Gln	Phe	Ile	His	Arg	Ile
Gln	Pro	Arg	Pro	35	Asp	Ala	Ala	Gly	Ala	40	His	Arg	Cys	Met	Val	Asn
Gly	His	Arg	Ser	50	Arg	Ser	Arg	Tyr	Ala	55	Lys	Pro	Asp	Ala	Gly	Pro
Asp	Ser	Pro	Val	65	Ala	Trp	Gln	His	Leu	70	Ala	Val	Pro	Arg	Arg	Gly
Ala	Gly	Ala	Ile	85	Ala	Met	Ser	Phe	Thr	90	Asp	Trp	Pro	Trp	Arg	His
Arg	Thr	Arg	Arg	100	Ala	Asp	Lys	Pro	Ala	105	Leu	Arg	Leu	Asp	Asp	Val
Leu	Ser	Trp	Trp	115	Gln	Leu	Gly	Lys	Arg	120	Ile	Asp	Arg	Leu	Ala	Gly
Phe	Gln	Ser	Gln	130	Gly	Val	Ala	Asp	Gly	135	Asp	Gly	Val	Met	Leu	Ala
His	Asn	His	Pro	145	Gln	Thr	Leu	Leu	Ala	150	Trp	Leu	Ala	Leu	Leu	Gln
Gly	Ala	Arg	Ile	160	Leu	Pro	Val	Asn	Pro	165	Gln	Leu	Pro	Arg	Pro	Leu


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165                               170                               175
Asp Val Leu Leu Pro Gln Met Thr Leu Arg Phe Ala Leu Val Leu Asn
180                               185                               190
Gly Glu Tyr Asp Gly Leu Pro Ala Leu Ala Leu Arg Glu Gly Glu Gly
195                               200                               205
Gln Gly Gly Val Thr Trp Arg Ala Glu Arg Leu Ala Ser Met Thr Leu
210                               215                               220
Thr Ser Gly Ser Thr Gly Leu Pro Lys Ala Ala Val His Thr Cys Ala
225                               230                               235
Ala His Leu Ala Ser Ala Lys Gly Val Leu Ala Leu Met Pro Tyr Gly
245                               250                               255
Asp Ser Asp Asp Trp Leu Leu Ser Leu Pro Leu Phe His Val Ser Gly
260                               265                               270
Gln Gly Ile Leu Trp Arg Trp Leu Gln Gly Gly Gly Arg Leu Thr Val
275                               280                               285
Arg Glu Lys Gln Pro Leu Glu Gln Ala Leu Gln Gly Cys Thr His Ala
290                               295                               300
Ser Leu Val Pro Thr Gln Leu Trp Arg Leu Leu Asn Ser His His Pro
305                               310                               315
Val Ala Leu Lys Ala Val Leu Leu Gly Gly Ala Glu Ile Pro Val Ala
325                               330                               335
Leu Thr Glu Gln Ala Arg Glu Gln Arg Ile Arg Thr Phe Cys Gly Tyr
340                               345                               350
Gly Leu Thr Glu Phe Ala Ser Thr Val Cys Ala Lys Glu Ala Asp Gly
355                               360                               365
Ala Pro Asp Val Gly Ser Ala Leu Pro Gly Arg Asp Val Gln Val Val
370                               375                               380
Asn Gly Glu Val Trp Ile Arg Ala Glu Ser Met Ala Ala Gly Tyr Trp
385                               390                               395
Arg Asp Gly Ala Leu Leu Pro Leu Val Asn Ala Gln Gly Trp Phe Ala
405                               410                               415
Thr Arg Asp Arg Gly Glu Trp His Asp Gly Arg Leu Thr Ile Leu Gly
420                               425                               430
Arg Met Asp Asn Leu Phe Phe Ser Gly Gly Glu Gly Ile Gln Pro Glu
435                               440                               445
Ala Leu Glu Arg Val Ile Ala Thr His Pro Gln Val Ser Gln Ala Phe
450                               455                               460
Val Val Pro Leu Asp Asp Ala Glu Tyr Gly Gln Arg Pro Val Ala Val
465                               470                               475
Val Glu Cys Glu Pro Gly Thr Asp Ile Thr Leu Leu Pro Glu Trp Val
485                               490                               495
Gln Gly Arg Leu Ala Arg Phe Glu Gln Pro Val His Trp Leu Thr Leu
500                               505                               510
Pro Ser Glu Leu Lys Asn Gly Gly Ile Lys Ile Ser Arg Gln Ala Leu
515                               520                               525
Lys Gln Trp Val Asn Ala Leu Leu Arg Gly
530                               535

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<210> 9762

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 9762

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Asp Arg Glu Gln Thr Asn His His Asp Asp Lys Leu His Ala Val Gly
1      5      10      15
Glu Met Asn Ala Val Glu Gly Lys Thr Ile Asn Pro Gly Val Gly Ile
20     25     30
His Ala Asp Gly Gly Gln Thr Glu Ala Asn Gln Arg Arg Gln Lys Arg
35     40     45
Leu Gln Arg Ile Leu Arg His His Ala Ala Glu Thr Gly Asp Gly Glu

```

50		55		60
His	His	Gln	Gly	Lys
65		70	Leu	Gly
Gly	Gln	Arg	Arg	Gly
		85	Glu	Glu
Ala	Lys	Glu	Arg	Ala
		100	Asp	Gly
Ser	Leu	Leu	Arg	His
		115	His	Trp
Gly	Ile	Ala	Gly	His
		130	Val	Lys
Phe	Ala	Ala	Asp	Ile
145		150	Asn	Arg
Arg	Gln	Val	Gln	Arg
		165	Gly	Gln
			170	Gln

<210> 9763

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 9763

Asn	Asn	Asn	Leu	Ser	Phe	Pro	Phe	His	Cys	Asp	Thr	Asn	Phe	Thr	Gly
1			5						10					15	
Cys	Asp	Met	Arg	Leu	Leu	Leu	Ala	Glu	Asp	Asn	Arg	Glu	Leu	Ala	His
			20					25						30	
Trp	Leu	Glu	Lys	Ala	Leu	Val	Gln	Asn	Gly	Phe	Ala	Val	Asp	Cys	Val
		35				40						45			
Asn	Asp	Gly	Arg	Ala	Ala	Asp	His	Leu	Leu	Gln	Gly	Glu	Asn	Tyr	Ala
		50				55					60				
Val	Ala	Ile	Leu	Asp	Ile	Gly	Met	Pro	Gly	Phe	Asp	Gly	Leu	Glu	Val
65					70					75				80	
Val	His	Arg	Leu	Arg	Lys	Arg	Gly	Gln	Thr	Leu	Pro	Val	Leu	Phe	Leu
			85						90					95	
Thr	Ala	Arg	Ser	Asn	Val	Ala	Asp	Arg	Val	Lys	Gly	Leu	Asn	Ala	Gly
			100						105					110	
Ala	Asp	Asp	Tyr	Leu	Pro	Lys	Pro	Phe	Glu	Leu	Glu	Glu	Leu	Asp	Ala
			115				120							125	
Arg	Leu	Arg	Ala	Leu	Leu	Arg	Arg	Ser	Glu	Gly	Arg	Thr	Gln	Glu	Arg
		130				135						140			
Gln	Arg	Leu	Gly	Glu	Leu	Glu	Tyr	Asp	Asp	Glu	Gly	Phe	Phe	Leu	Leu
145					150					155				160	
Arg	Asp	Glu	Pro	Leu	Ser	Leu	Thr	Pro	Arg	Glu	Leu	Ser	Leu	Leu	Lys
				165					170					175	
Val	Leu	Met	His	Arg	Arg	Thr	Arg	Pro	Val	Ser	Arg	Gln	Gln	Leu	Phe
			180						185					190	
Asp	Gln	Val	Phe	Ser	Leu	Asn	Asp	Asp	Val	Ser	Pro	Glu	Ser	Ile	Asp
			195				200					205			
Leu	Tyr	Ile	His	Arg	Leu	Arg	Lys	Lys	Leu	Thr	Gly	Ser	Gly	Val	Arg
		210					215				220				
Ile	Thr	Thr	Leu	Arg	Gly	Leu	Gly	Tyr	Val	Leu	Glu	Cys	Gly	Asp	Glu
225					230					235				240	
Val	Gly														

<210> 9764

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 9764

Arg Arg Lys Gln Pro Val Met Ile Glu Gly Asp Asp Val Leu Leu Gly
 1 5 10 15
 Glu Leu Cys Ala Asn Leu Leu Glu Asn Ala Ile Lys Tyr Thr Pro Glu
 20 25 30
 Gln Gly Ile Val Thr Val Tyr Leu Arg Thr Ala Asn Asp Ala Val Glu
 35 40 45
 Leu Ser Val Glu Asp Ser Gly Pro Gly Ile Ala Glu Asp Gln Ile Ser
 50 55 60
 Gln Ala Met Leu Pro Phe His Arg Leu Glu Asn Val Gly Asp Ala Ala
 65 70 75 80
 Gly Ser Gly Ile Gly Leu Ala Leu Ala Asn Asp Ile Ala Arg Leu His
 85 90 95
 Arg Ser His Leu Gln Leu Met Pro Ser Glu Asn Leu Gly Gly Leu Ser
 100 105 110
 Val Lys Met Arg Phe Leu Met Leu Ile
 115 120

<210> 9765

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 9765

Met Pro Ile Leu Ser Asn Arg Tyr Lys Leu Ile Ala Cys Arg Thr Trp
 1 5 10 15
 Ser Pro Leu Ile Thr Gln Ala Gly Arg Leu Lys Ser Arg Gly Phe Trp
 20 25 30
 Thr Ser Leu Asn Lys Leu Cys Gly Ile Thr Thr Met Lys Lys Val Ala
 35 40 45
 Leu Met Gly Leu Ser Gly Leu Met Phe Val Ser Ala Ala Asn Ala
 50 55 60
 Ile Ser Phe Asn Gly Ser Ala Gly Gln Asp Tyr Thr His Leu Gly Phe
 65 70 75 80
 Gly Leu Gly Thr Asp Ser Ala Gly Leu Ala Met Thr Gly Gly Trp Thr
 85 90 95
 His Asn Asp Asp Asp Gly Asp Ala Ala Ser Leu Gly Leu Gly Phe Asn
 100 105 110
 Val Pro Leu Gly Pro Phe Leu Ala Thr Val Gly Gly Lys Gly Ile Tyr
 115 120 125
 Thr Asn Pro Asn Asp Gly Asp Glu Gly Tyr Ala Ala Val Gly Gly
 130 135 140
 Gly Leu Gln Trp Lys Ile Gly Asp Ser Phe Gly Leu Phe Gly Glu Tyr
 145 150 155 160
 Tyr Tyr Ser Pro Asp Ser Leu Ser Ser Gly Ile Asp Ser Tyr Gln Glu
 165 170 175
 Ala Asn Ala Gly Ala Arg Trp Thr Ile Met Arg Pro Ile Thr Ile Glu
 180 185 190
 Ala Gly Tyr Arg Tyr Leu Asn Leu Ala Gly Lys Asp Gly Asn Arg Asp
 195 200 205
 Asn Ala Leu Ala Asp Gly Pro Tyr Val Gly Val Ser Ala Gly Phe
 210 215 220

<210> 9766

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 9766

Lys Ala Thr Glu Ala Val Met Leu Ser Ile Phe Lys Pro Ala Pro His
 1 5 10 15
 Arg Ala Arg Leu Pro Glu Ala Glu Ile Asp Pro Leu Tyr Arg Arg Leu

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<210> 9767
<211> 148
<212> PRT
<213> Enterobacter cloacae
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<400> 9767

Ala Met Ser Met Ser Thr Ser Thr Glu Val Ile Ala His His Trp Ala
 1 5 10 15
 Phe Ala Ile Phe Leu Ile Val Ala Ile Gly Leu Cys Cys Leu Met Leu
 20 25 30
 Val Gly Gly Trp Phe Leu Gly Gly Arg Ala Arg Ala Arg His Lys Asn
 35 40 45
 Thr Pro Phe Glu Ser Gly Ile Asp Ser Val Gly Thr Ala Arg Leu Arg
 50 55 60
 Leu Ser Ala Lys Phe Tyr Leu Val Ala Met Phe Phe Val Ile Phe Asp
 65 70 75 80
 Val Glu Ala Leu Tyr Leu Phe Ala Trp Ser Thr Ser Ile Arg Glu Ser
 85 90 95
 Gly Trp Val Gly Phe Val Glu Ala Ala Ile Phe Ile Leu Val Leu Leu
 100 105 110
 Ala Gly Leu Val Tyr Leu Val Arg Ile Gly Ala Leu Asp Trp Thr Pro
 115 120 125
 Val Arg Ser Arg Arg Glu His Ile Asn Pro Glu Asn Ser Ile Ser Asn
 130 135 140
 Arg Gln Gln
 145

<210> 9768

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 9768

Gln Arg Gly Asn Lys Met Asp Tyr Thr Leu Thr Arg Ile Asp Pro Asn
 1 5 10 15
 Gly Glu Asn Asp Arg Tyr Pro Leu Gln Lys Gln Glu Ile Val Thr Asp
 20 25 30
 Pro Leu Glu Gln Glu Val Asn Lys Ser Val Tyr Met Gly Lys Leu Glu
 35 40 45
 His Ala Met His Asp Met Val Asn Trp Gly Arg Lys Asn Ser Ile Trp
 50 55 60
 Pro Tyr Asn Phe Gly Leu Ser Cys Cys Tyr Val Glu Met Val Thr Ser
 65 70 75 80
 Phe Thr Ala Val His Asp Val Ala Arg Phe Gly Ala Glu Val Leu Arg
 85 90 95
 Ala Ser Pro Arg Gln Ala Asp Leu Met Val Val Ala Gly Thr Cys Phe
 100 105 110
 Thr Lys Met Ala Pro Val Ile Gln Arg Leu Tyr Asp Gln Met Leu Glu
 115 120 125
 Pro Lys Trp Val Ile Ser Met Gly Ala Cys Ala Asn Ser Gly Gly Met
 130 135 140
 Tyr Asp Ile Tyr Ser Val Val Gln Gly Val Asp Lys Phe Ile Pro Val
 145 150 155 160
 Asp Val Tyr Ile Pro Gly Cys Pro Pro Arg Pro Glu Ala Tyr Met Gln
 165 170 175
 Ala Leu Met Leu Leu Gln Glu Ser Ile Gly Lys Glu Arg Arg Pro Leu
 180 185 190
 Ser Trp Val Val Gly Asp Gln Gly Val Tyr Arg Ala Asn Met Gln Ser
 195 200 205
 Glu Arg Glu Arg Lys Arg Gly Glu Arg Ile Ala Val Thr Asn Leu Arg
 210 215 220
 Thr Pro Asp Glu Ile
 225 230

<210> 9769

<211> 452

<212> PRT

<213> *Enterobacter cloacae*

<400> 9769

Pro Ala Gly Ala Val Gln Met Lys Thr Val Ile Arg Thr Ala Glu Thr
 1 5 10 15
 His Pro Leu Thr Trp Arg Leu Arg Asp Asp Lys Gln Pro Val Trp Leu
 20 25 30
 Asp Glu Tyr Gln Ser Lys Asn Gly Tyr Ala Gly Ala Arg Lys Ala Leu
 35 40 45
 Gly Gly Met Ala Pro Asp Asp Ile Val Asn Ala Val Lys Glu Ser Gly
 50 55 60
 Leu Lys Gly Arg Gly Gly Ala Gly Phe Ser Thr Gly Leu Lys Trp Ser
 65 70 75 80
 Leu Met Pro Lys Asp Glu Ser Met Asn Ile Arg Tyr Leu Leu Cys Asn
 85 90 95
 Ala Asp Glu Met Glu Pro Gly Thr Tyr Lys Asp Arg Leu Leu Met Glu
 100 105 110
 Gln Leu Pro His Leu Leu Val Glu Gly Met Leu Ile Ser Ala Phe Ala
 115 120 125
 Leu Lys Ala Tyr Arg Gly Tyr Ile Phe Leu Arg Gly Glu Tyr Ile Glu
 130 135 140
 Ala Ala Glu Asn Leu Arg Arg Ala Ile Ala Glu Ala Thr Glu Ala Gly
 145 150 155 160
 Leu Leu Gly Lys Asn Ile Leu Gly Thr Gly Phe Asp Phe Glu Leu Phe
 165 170 175
 Val His Thr Gly Ala Gly Arg Tyr Ile Cys Gly Glu Glu Thr Ala Leu
 180 185 190
 Ile Asn Ser Leu Glu Gly Arg Arg Ala Asn Pro Arg Ser Lys Pro Pro
 195 200 205
 Phe Pro Ala Ser Ser Gly Val Trp Gly Lys Pro Thr Cys Val Asn Asn
 210 215 220
 Val Glu Thr Leu Cys Asn Val Pro Ala Ile Leu Ala Asn Gly Val Glu
 225 230 235 240
 Trp Tyr Gln Gly Ile Ser Ser Ser Lys Asp Ala Gly Thr Lys Leu Met
 245 250 255
 Gly Phe Ser Gly Arg Val Lys Asn Pro Gly Val Trp Glu Leu Pro Phe
 260 265 270
 Gly Thr Thr Ala Arg Glu Ile Leu Glu Asp Tyr Ala Gly Gly Met Arg
 275 280 285
 Asp Gly Leu Lys Phe Lys Ala Trp Gln Pro Gly Gly Ala Gly Thr Asp
 290 295 300
 Phe Leu Thr Glu Ala His Leu Asp Leu Pro Met Glu Phe Glu Ser Ile
 305 310 315 320
 Gly Lys Ala Gly Ser Arg Leu Gly Thr Ala Leu Ala Met Ala Val Asp
 325 330 335
 His Glu Ile Gly Met Val Ser Leu Val Arg Asn Leu Glu Glu Phe Phe
 340 345 350
 Ala Arg Glu Ser Cys Gly Trp Cys Thr Pro Cys Arg Asp Gly Leu Pro
 355 360 365
 Trp Ser Val Lys Ile Leu Arg Ala Ile Glu Arg Gly Glu Gly Gln Pro
 370 375 380
 Gly Asp Ile Glu Thr Leu Glu Gln Leu Cys Arg Phe Leu Gly Pro Gly
 385 390 395 400
 Lys Thr Phe Cys Ala His Ala Pro Gly Ala Val Glu Pro Leu Gln Ser
 405 410 415
 Ala Ile Lys Tyr Phe Arg Asp Glu Phe Glu Ala Gly Ile Lys Gln Pro
 420 425 430
 Phe Ser Asn Thr His Ser Ile Asn Gly Ile Gln Pro Asn Leu Leu Lys
 435 440 445
 Ala Arg Trp

450

<210> 9770

<211> 920

<212> PRT

<213> Enterobacter cloacae

<400> 9770

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Arg Ser Val Ser Ala Glu Pro Thr Gly Ser Met Leu Met Ala Thr Ile
1          5          10          15
His Val Asp Gly Lys Glu Tyr Glu Val Asn Gly Ala Asp Asn Leu Leu
20         25         30
Glu Ala Cys Leu Ser Leu Gly Leu Asp Ile Pro Tyr Phe Cys Trp His
35         40         45
Pro Ala Leu Gly Ser Val Gly Ala Cys Arg Gln Cys Ala Val Lys Gln
50         55         60
Tyr Gln Asn Ala Glu Asp Thr Arg Gly Arg Leu Val Met Ser Cys Met
65         70         75         80
Thr Pro Ala Ala Glu Gly Thr Phe Ile Ser Ile Asp Asp Glu Glu Ala
85         90         95
Lys Gln Phe Arg Glu Ser Val Val Glu Trp Leu Met Thr Asn His Pro
100        105        110
His Asp Cys Pro Val Cys Glu Glu Gly Gly Asn Cys His Leu Gln Asp
115        120        125
Met Thr Val Met Thr Gly His Ser Phe Arg Arg Tyr Arg Phe Thr Lys
130        135        140
Arg Thr His Arg Asn Gln Asp Leu Gly Pro Phe Ile Ser His Glu Met
145        150        155        160
Asn Arg Cys Ile Ala Cys Tyr Arg Cys Val Arg Tyr Tyr Lys Asp Tyr
165        170        175
Ala Asp Gly Gln Asp Leu Gly Val Tyr Gly Ala His Asp Asn Val Tyr
180        185        190
Phe Gly Arg Pro Glu Asp Gly Thr Leu Glu Ser Glu Phe Ser Gly Asn
195        200        205
Leu Val Glu Ile Cys Pro Thr Gly Val Phe Thr Asp Lys Thr His Ser
210        215        220
Glu Arg Tyr Asn Arg Lys Trp Asp Met Gln Phe Ala Pro Ser Ile Cys
225        230        235        240
Gln Gln Cys Ser Leu Gly Cys Asn Thr Ser Pro Gly Glu Arg Tyr Gly
245        250        255
Glu Leu Arg Arg Ile Glu Asn Arg Tyr Asn Gly Thr Val Asn His Tyr
260        265        270
Phe Leu Cys Asp Arg Gly Arg Phe Gly Tyr Gly Tyr Val Asn Leu Lys
275        280        285
Asp Arg Pro Arg Gln Pro Val Gln Arg Arg Gly Asp Asp Val Ile Thr
290        295        300
Leu Asn Ala Glu Gln Ala Met Gln Gly Ala Ala Asp Ile Leu Arg Gln
305        310        315        320
Ser Lys Lys Val Ile Gly Ile Gly Ser Pro Arg Ala Ser Ile Glu Ser
325        330        335
Asn Phe Ala Leu Arg Glu Leu Val Gly Ala Glu Asn Phe Tyr Thr Gly
340        345        350
Ile Ala Gln Gly Glu Gln Glu Arg Leu Gln Leu Val Leu Lys Val Leu
355        360        365
Arg Glu Gly Gly Val His Thr Pro Ala Leu Arg Glu Ile Glu Ser Tyr
370        375        380
Asp Ala Val Leu Val Leu Gly Glu Asp Leu Thr Gln Thr Gly Ala Arg
385        390        395        400
Ala Ala Leu Ala Val Arg Gln Ala Val Lys Gly Lys Ala Arg Glu Met
405        410        415
Ala Ala Ala Gln Lys Val Ala Asp Trp Gln Ile Ala Ala Ile Leu Asn

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[illegible]

Asn Leu Gln Glu Ala Lys Ala
915 920

<210> 9771

<211> 617

<212> PRT

<213> *Enterobacter cloacae*

<400> 9771

Val Ala Trp Met Asn Met Leu Ala Leu Thr Ile Ile Phe Pro Leu Ile
1 5 10 15
Gly Phe Val Leu Leu Ala Phe Ser Arg Gly Arg Trp Ser Glu Asn Leu
20 25 30
Ser Ala Thr Val Gly Ile Gly Ser Ile Gly Leu Ala Ala Leu Val Thr
35 40 45
Ala Tyr Ala Gly Ile Asp Phe Phe Asn Asn Gly Arg Gln Ala Tyr Ser
50 55 60
Val Pro Leu Trp Asn Trp Met Ser Val Gly Asn Phe Asn Ile Gly Phe
65 70 75 80
Asn Leu Val Leu Asp Gly Leu Ser Leu Thr Met Leu Ser Val Val Thr
85 90 95
Gly Val Gly Phe Leu Ile His Met Phe Ala Ser Trp Tyr Met Arg Gly
100 105 110
Glu Glu Gly Tyr Ser Arg Phe Phe Ala Tyr Thr Asn Leu Phe Ile Ala
115 120 125
Ser Met Val Val Leu Val Leu Ala Asp Asn Leu Leu Leu Met Tyr Leu
130 135 140
Gly Trp Glu Gly Val Gly Leu Cys Ser Tyr Leu Leu Ile Gly Phe Tyr
145 150 155 160
Tyr Thr Asp Pro Lys Asn Gly Ala Ala Met Lys Ala Phe Val Val
165 170 175
Thr Arg Val Gly Asp Val Phe Leu Ala Phe Ala Leu Phe Ile Leu Tyr
180 185 190
Asn Glu Leu Gly Thr Leu Asn Phe Arg Glu Met Val Glu Leu Ala Pro
195 200 205
Ala His Phe Glu Ala Gly Asn Asn Met Leu Trp Trp Ala Thr Leu Met
210 215 220
Leu Leu Gly Gly Ala Val Gly Lys Ser Ala Gln Leu Pro Leu Gln Thr
225 230 235 240
Trp Leu Ala Asp Ala Met Ala Gly Pro Thr Pro Val Ser Ala Leu Ile
245 250 255
His Ala Ala Thr Met Val Thr Ala Gly Val Tyr Leu Ile Ala Arg Thr
260 265 270
His Gly Leu Phe Leu Met Thr Pro Glu Ile Leu His Leu Val Gly Ile
275 280 285
Val Gly Ala Val Thr Leu Val Leu Ala Gly Phe Ala Ala Leu Val Gln
290 295 300
Thr Asp Ile Lys Arg Val Leu Ala Tyr Ser Thr Met Ser Gln Ile Gly
305 310 315 320
Tyr Met Phe Leu Ala Leu Gly Val Gln Ala Trp Asp Ala Ala Ile Phe
325 330 335
His Leu Met Thr His Ala Phe Phe Lys Ala Leu Leu Phe Leu Ser Ser
340 345 350
Gly Ser Val Ile Leu Ala Cys His His Glu Gln Asn Ile Phe Lys Met
355 360 365
Gly Gly Leu Arg Lys Ser Ile Pro Leu Val Tyr Val Cys Phe Leu Val
370 375 380
Gly Gly Ala Ala Leu Ala Ala Leu Pro Leu Ile Thr Ala Gly Phe Phe
385 390 395 400
Ser Lys Asp Glu Ile Leu Ala Gly Ala Met Ala Asn Gly His Ile Asn
405 410 415

Leu Met Val Ala Gly Leu Val Gly Ala Phe Met Thr Ser Leu Tyr Thr
 420 425 430
 Phe Arg Met Ile Phe Ile Val Phe His Gly Lys Glu Gln Ile His Ala
 435 440 445
 His Ala Gly Lys Gly Ile Thr His His Leu Pro Leu Ile Val Leu Leu
 450 455 460
 Val Leu Ser Thr Phe Val Gly Ala Met Ile Val Pro Pro Leu Gln Gly
 465 470 475 480
 Val Leu Pro Ala Thr Thr Glu Leu Glu His Gly Arg Val Leu Thr Leu
 485 490 495
 Glu Ile Thr Ser Gly Val Val Ala Ile Ala Gly Ile Leu Ile Ala Ala
 500 505 510
 Trp Leu Trp Ser Leu Gly Lys Arg Thr Leu Val Thr Ala Val Ala Asn Ser
 515 520 525
 Ala Pro Gly Arg Leu Leu Gly Thr Trp Trp Tyr Asn Ala Trp Gly Phe
 530 535 540
 Asp Trp Leu Tyr Asp Met Ile Phe Val Lys Pro Phe Leu Gly Ile Ala
 545 550 555 560
 Trp Leu Leu Lys Arg Asp Pro Leu Asn Ser Leu Met Asn Ile Pro Ala
 565 570 575
 Ile Leu Ser Arg Phe Ala Gly Lys Gly Leu Leu Phe Ser Glu Asn Gly
 580 585 590
 Tyr Leu Arg Trp Tyr Val Ala Ser Met Ser Ile Gly Ala Val Val Val
 595 600 605
 Leu Ala Leu Leu Met Val Leu Arg
 610 615

<210> 9772

<211> 512

<212> PRT

<213> *Enterobacter cloacae*

<400> 9772

Ile Ala Met Leu Leu Pro Trp Leu Ile Leu Ile Pro Phe Ile Gly Gly
 1 5 10 15
 Phe Leu Cys Trp Gln Thr Glu Arg Phe Gly Val Lys Met Pro Arg Trp
 20 25 30
 Ile Ala Leu Ile Thr Met Gly Leu Thr Leu Ala Leu Gly Leu Gln Leu
 35 40 45
 Trp Leu Gln Gly Gly Tyr Ser Leu Thr Gln Ser Ala Gly Leu Pro Gln
 50 55 60
 Trp Gln Ser Glu Phe Ile Leu Pro Trp Ile Pro Arg Phe Gly Ile Thr
 65 70 75 80
 Ile His Leu Ala Ile Asp Gly Leu Ser Leu Leu Met Val Val Leu Thr
 85 90 95
 Gly Leu Leu Gly Val Leu Ala Val Leu Cys Ser Trp Arg Glu Ile Glu
 100 105 110
 Lys Tyr Gln Gly Phe Phe His Leu Asn Leu Met Trp Ile Leu Gly Gly
 115 120 125
 Val Ile Gly Val Phe Leu Ala Ile Asp Met Phe Leu Phe Phe Phe Phe
 130 135 140
 Trp Glu Met Met Leu Val Pro Met Tyr Phe Leu Ile Ala Leu Trp Gly
 145 150 155 160
 His Lys Ala Ser Asp Gly Lys Thr Arg Ile Thr Ala Ala Thr Lys Phe
 165 170 175
 Phe Ile Tyr Thr Gln Ala Ser Gly Leu Val Met Leu Ile Ala Ile Leu
 180 185 190
 Ala Leu Val Phe Val His Tyr Asn Ala Thr Gly Val Trp Thr Phe Asn
 195 200 205
 Tyr Glu Asp Leu Leu Lys Thr Pro Met Ser His Gly Val Glu Tyr Leu
 210 215 220

Leu Met Leu Gly Phe Phe Ile Ala Phe Ala Val Lys Met Pro Val Val
 225 230 235 240
 Pro Leu His Gly Trp Leu Pro Asp Ala His Ser Gln Ala Pro Thr Ala
 245 250 255
 Gly Ser Val Asp Leu Ala Gly Ile Leu Leu Lys Thr Ala Ala Tyr Gly
 260 265 270
 Leu Leu Arg Phe Ser Leu Pro Leu Phe Pro Asn Ala Ser Ala Glu Phe
 275 280 285
 Ala Pro Ile Ala Met Trp Leu Gly Val Ile Gly Ile Phe Tyr Gly Ala
 290 295 300
 Trp Met Ala Phe Thr Gln Tyr Asp Ile Lys Arg Leu Ile Ala Tyr Thr
 305 310 315 320
 Ser Val Ser His Met Gly Phe Val Leu Ile Ala Ile Tyr Thr Gly Ser
 325 330 335
 Gln Leu Ala Tyr Gln Gly Ala Val Ile Gln Met Ile Ala His Gly Leu
 340 345 350
 Ser Ala Ala Gly Leu Phe Ile Leu Cys Gly Gln Leu Tyr Glu Arg Leu
 355 360 365
 His Thr Arg Asp Met Arg Met Met Gly Gly Leu Trp Gly Lys Met Lys
 370 375 380
 Trp Leu Pro Ala Leu Ser Met Phe Phe Ala Val Ala Thr Leu Gly Met
 385 390 395 400
 Pro Gly Thr Gly Asn Phe Val Gly Glu Phe Met Ile Leu Phe Gly Ser
 405 410 415
 Phe Asn Val Val Pro Thr Ile Thr Val Ile Ser Thr Phe Gly Leu Val
 420 425 430
 Phe Ala Ser Val Tyr Ser Leu Ala Met Leu His Arg Ala Tyr Phe Gly
 435 440 445
 Lys Ala Lys Ser Glu Ile Ala Ala Gln Glu Leu Pro Gly Met Ser Leu
 450 455 460
 Arg Glu Leu Phe Ile Ile Leu Leu Val Val Leu Leu Val Leu Leu
 465 470 475 480
 Gly Phe Tyr Pro Gln Pro Ile Leu Asp Thr Ser His Ser Ala Met Gly
 485 490 495
 Asn Ile Gln Gln Trp Phe Val Asn Ser Ala Ser Thr Thr Arg Pro
 500 505 510

<210> 9773

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 9773

Phe Ala Met Thr Ile Thr Pro Gln Gln Leu Ile Ala Leu Leu Pro Leu
 1 5 10 15
 Leu Ile Val Gly Leu Thr Val Val Val Val Met Leu Ser Ile Ala Trp
 20 25 30
 Arg Arg Asn His Phe Leu Asn Ala Thr Leu Ser Val Leu Gly Leu Asn
 35 40 45
 Ala Ala Leu Val Ser Leu Trp Phe Val Gly Gln Ala Gly Ala Met Asp
 50 55 60
 Val Thr Pro Leu Met Arg Val Asp Gly Tyr Ala Met Leu Tyr Thr Gly
 65 70 75 80
 Leu Val Leu Leu Ala Ser Leu Ala Thr Cys Thr Phe Ala Tyr Pro Trp
 85 90 95
 Leu Glu Gly Tyr Asn Asp Asn Lys Glu Glu Phe Tyr Leu Leu Val Leu
 100 105 110
 Ile Ala Ala Leu Gly Gly Ile Leu Leu Ala Asn Ala Asn His Met Ala
 115 120 125
 Ala Leu Phe Leu Gly Ile Glu Leu Ile Ser Leu Pro Leu Phe Gly Leu
 130 135 140

Ile Gly Tyr Ala Phe Arg Gln Lys Arg Ser Leu Glu Ala Ala Ile Lys
 145 150 155 160
 Tyr Thr Ile Leu Ser Ala Ala Ala Ser Ser Phe Leu Leu Phe Gly Ile
 165 170 175
 Ala Leu Leu Tyr Ala Gln Thr Gly Asn Leu Ser Phe Leu Ala Ile Gly
 180 185 190
 Lys Ser Leu Gly Asp Gly Met Met His Glu Pro Leu Leu Ala Gly
 195 200 205
 Leu Gly Met Met Ile Val Gly Leu Gly Phe Lys Leu Ser Leu Val Pro
 210 215 220
 Phe His Leu Trp Thr Pro Asp Val Tyr Gln Gly Ala Pro Ala Pro Val
 225 230 235 240
 Ser Thr Phe Leu Ala Thr Ala Ser Lys Ile Ala Ile Phe Gly Val Val
 245 250 255
 Met Arg Leu Phe Leu Tyr Ala Pro Val Gly Asp Ser Glu Ala Val Arg
 260 265 270
 Val Val Leu Gly Ile Ile Ala Phe Val Ser Ile Ile Phe Gly Asn Leu
 275 280 285
 Met Ala Leu Ser Gln Thr Asn Ile Lys Arg Leu Leu Gly Tyr Ser Ser
 290 295 300
 Ile Ser His Leu Gly Tyr Leu Leu Val Ala Leu Ile Ala Leu Gln Ser
 305 310 315 320
 Gly Glu Met Ser Met Glu Thr Val Gly Val Tyr Leu Ala Gly Tyr Leu
 325 330 335
 Phe Ser Ser Leu Gly Ala Phe Gly Val Val Ser Leu Met Ser Ser Pro
 340 345 350
 Tyr Arg Gly Pro Asp Ala Asp Ser Leu Phe Ser Tyr Arg Gly Leu Phe
 355 360 365
 Trp His Arg Pro Ile Leu Ser Ala Val Met Thr Val Met Met Leu Ser
 370 375 380
 Leu Ala Gly Ile Pro Met Thr Leu Gly Phe Ile Gly Lys Phe Tyr Val
 385 390 395 400
 Leu Ala Val Gly Val Gln Ala Gly Leu Trp Trp Leu Thr Ala Gly Val
 405 410 415
 Val Ile Gly Ser Ala Ile Gly Leu Tyr Tyr Tyr Leu Arg Val Ala Val
 420 425 430
 Ser Leu Tyr Leu Ser Ala Pro Gln Gln Leu Asn Arg Asp Ala Pro Ser
 435 440 445
 Asn Trp Gln Tyr Ser Ala Gly Gly Ile Val Val Leu Ile Ser Ala Leu
 450 455 460
 Leu Val Leu Ile Phe Gly Ile Tyr Pro Gln Pro Leu Ile Asp Ile Val
 465 470 475 480
 Gln Arg Ala Met Pro Leu Met
 485

<210> 9774

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 9774

Leu Pro Asp Trp Cys Thr Asn Met Glu Lys Asn Met Ser Phe Gln Ser
 1 5 10 15
 Trp Asp Thr Arg Val Asp Asp Asp Leu Thr Leu Leu Ser Glu Thr Leu
 20 25 30
 Glu Glu Val Leu Arg Ser Ser Gly Asp Pro Ala Asp Gln Lys Tyr Ile
 35 40 45
 Glu Leu Lys Ala Arg Ala Glu Gln Ala Leu His Asp Val Lys Asn Arg
 50 55 60
 Val Ser Asn Ala Ser Asp Asn Tyr Tyr Tyr Arg Ala Lys Gln Ala Val
 65 70 75 80

Tyr Arg Ala Asp Asp Tyr Val His Glu Lys Pro Trp Gln Gly Ile Gly
 85 90 95
 Val Gly Ala Ala Val Gly Leu Val Leu Gly Leu Leu Ala Arg Arg
 100 105 110

<210> 9775

<211> 589

<212> PRT

<213> *Enterobacter cloacae*

<400> 9775

Gly Ile Asn Thr Asp Ser Cys Asn Pro Asp Ser Tyr Gln Asn Ser Asp
 1 5 10 15
 Phe Phe Tyr Tyr Leu Tyr Cys Val Ala Phe Leu Ile Leu Asp Asn Leu
 20 25 30
 Met Ser Val Ser Ser Phe Asn Arg Arg Trp Ala Ala Val Ile Leu Glu
 35 40 45
 Ala Leu Thr Arg His Gly Val Arg His Val Cys Ile Ala Pro Gly Ser
 50 55 60
 Arg Ser Thr Pro Leu Thr Leu Ala Ala Ala Glu Asn Arg Ala Phe Ile
 65 70 75 80
 His His Thr His Phe Asp Glu Arg Gly Leu Gly His Leu Ala Leu Gly
 85 90 95
 Leu Ala Lys Val Ser Lys Ala Pro Val Ala Val Ile Val Thr Ser Gly
 100 105 110
 Thr Ala Val Ala Asn Leu Tyr Pro Ala Leu Ile Glu Ala Gly Leu Thr
 115 120 125
 Gly Glu Lys Leu Ile Leu Leu Thr Ala Asp Arg Pro Pro Glu Leu Ile
 130 135 140
 Asp Cys Gly Ala Asn Gln Ala Ile Arg Gln Pro Gly Ile Phe Ala Ser
 145 150 155 160
 His Pro Ser Gln Thr Val Ser Leu Pro Arg Pro Thr Gln Asp Ile Pro
 165 170 175
 Ala Ser Trp Leu Val Ser Thr Leu Asp His Ala Met Asn Ala Leu Arg
 180 185 190
 Ser Gly Gly Leu His Ile Asn Cys Pro Phe Ala Glu Pro Leu Tyr Gly
 195 200 205
 Glu Met Asn Asp Thr Gly Leu Val Trp Gln Gln Gln Leu Gly Asp Trp
 210 215 220
 Trp Glu Ser Glu Lys Pro Trp Leu Arg Glu Gln Thr His Leu Glu Ser
 225 230 235 240
 Ala Lys Gln Arg Asp Trp Phe Phe Trp Arg Gln Lys Arg Gly Val Val
 245 250 255
 Ile Ala Gly Arg Met Ser Ala Ala Glu Gly Lys Leu Ala Ala Glu Trp
 260 265 270
 Ala Gln Thr Leu Gly Trp Pro Leu Ile Gly Asp Val Leu Ser Gln Thr
 275 280 285
 Gly Gln Pro Leu Pro Cys Ala Asp Leu Trp Leu Gly Asn Ala Lys Ala
 290 295 300
 Val Thr Glu Leu Ala Gln Ala Gln Ile Val Val Gln Leu Gly Ser Ser
 305 310 315 320
 Leu Thr Gly Lys Arg Leu Leu Gln Trp Gln Ala Thr Cys Thr Pro Glu
 325 330 335
 Glu Tyr Trp Leu Val Asp Pro Leu Glu Gly Arg Leu Asp Pro Ala His
 340 345 350
 His Arg Gly Arg Arg Leu Val Ser Asp Ile Asn Ser Trp Leu Glu Leu
 355 360 365
 His Pro Ala Glu Lys Arg Lys Pro Trp Ala Val Glu Ile Pro Ala Leu
 370 375 380

Ser Arg Gln Ala Trp Glu Leu Thr Lys Ala Gln Cys Glu Ala Phe Ser
 385 390 395 400
 Glu Ala Gly Leu Ala His Arg Ile Arg Lys Tyr Leu Pro Glu Gln Gly
 405 410 415
 Gln Leu Phe Val Gly Asn Ser Leu Val Val Arg Leu Ile Asp Ala Phe
 420 425 430
 Ser Gln Leu Pro Ala Gly Tyr Pro Val Tyr Ser Asn Arg Gly Ala Ser
 435 440 445
 Gly Ile Asp Gly Leu Ile Ser Thr Ala Ala Gly Val Gln Arg Ala Ser
 450 455 460
 Ala Lys Ser Thr Leu Ala Ile Val Gly Asp Leu Ser Ala Leu Tyr Asp
 465 470 475 480
 Leu Asn Ala Leu Ala Leu Leu Arg Gln Ala Ser Ala Pro Phe Val Leu
 485 490 495
 Ile Ile Val Asn Asn Asn Gly Gly Gln Ile Phe Ser Leu Leu Pro Thr
 500 505 510
 Pro Gln Ser Glu Arg Glu Arg Phe Tyr Leu Met Pro Gln Asn Val Gln
 515 520 525
 Phe Glu His Ala Ala Ala Met Phe Ser Leu Lys Tyr His Arg Pro Glu
 530 535 540
 Asn Trp Asp Ala Leu Glu Thr Ala Leu Asn Thr Ala Trp Arg Gln Pro
 545 550 555 560
 Gly Ala Thr Leu Ile Glu Leu Val Val Asn Asp Ala Asp Gly Ala Gln
 565 570 575
 Lys Leu Gln His Leu Leu Ala Gln Val Ser His Leu
 580 585

<210> 9776

<211> 356

<212> PRT

<213> *Enterobacter cloacae*

<400> 9776

Arg His His Ala Val Leu Tyr Asp Arg Arg Gly Ser Gly Arg Ala Gln
 1 5 10 15
 Arg Val Gln Arg Lys Thr Pro Ala Arg Leu Gln Gln Ile Gln Thr Glu
 20 25 30
 Pro Val Met Arg Arg Val Gln Val Tyr Arg Trp Gln Ile Pro Met Asp
 35 40 45
 Ala Gly Val Val Leu Arg Glu Arg Arg Leu Lys Thr Arg Asp Gly Phe
 50 55 60
 Phe Val His Leu Arg Glu Gly Glu Arg Glu Gly Trp Gly Glu Ile Ala
 65 70 75 80
 Pro Leu Pro Gly Phe Ser Leu Glu Thr Leu Asp Glu Ala Gln Ala Ala
 85 90 95
 Leu Met Ala Trp Thr His Ala Trp Arg Glu Gly Glu Asp Pro Ala Leu
 100 105 110
 Pro Asp Val Pro Ser Val Ala Phe Gly Ile Ser Cys Ala Leu Ala Glu
 115 120 125
 Leu Asp Gly Ser Leu Pro Glu Ala Ala Asn Tyr Arg Ala Ala Pro Leu
 130 135 140
 Cys Thr Gly Asp Pro Asp Glu Leu Phe Ala Leu Leu Ser Ala Met Pro
 145 150 155 160
 Gly Glu Lys Val Ala Lys Ile Lys Val Gly Leu Tyr Glu Ala Val Arg
 165 170 175
 Asp Gly Met Val Val Asn Leu Leu Leu Glu Ala Ile Pro Asp Leu His
 180 185 190
 Leu Arg Leu Asp Ala Asn Arg Ala Trp Thr Pro Leu Arg Ala Gln Gln
 195 200 205
 Phe Ala Lys Tyr Val Asn Pro Ala Tyr Arg Ser Arg Ile Ala Phe Leu
 210 215 220

Glu Glu Pro Cys Lys Thr Arg Asp Asp Ser Arg Ala Phe Ala Arg Glu
 225 230 235 240
 Thr Gly Ile Ala Ile Ala Trp Asp Glu Ser Leu Arg Glu Ala Asp Phe
 245 250 255
 Ala Phe Ala Ala Glu Pro Gly Val Arg Ala Val Val Ile Lys Pro Thr
 260 265 270
 Leu Thr Gly Ser Leu Asp Lys Val Arg Glu Gln Val Ala Ala His
 275 280 285
 Ala Ala Gly Leu Thr Ala Val Ile Ser Ser Ser Ile Glu Ser Ser Leu
 290 295 300
 Gly Leu Thr Gln Leu Ala Arg Ile Ala Ala Trp Leu Thr Pro Asp Thr
 305 310 315 320
 Val Pro Gly Leu Asp Thr Leu Asn Leu Met Gln Ala Gln Leu Ile Arg
 325 330 335
 Gln Trp Pro Gly Ser Thr Leu Pro Cys Leu Asp Val Gly Ala Leu Glu
 340 345 350
 Pro Leu Arg
 355

<210> 9777

<211> 374

<212> PRT

<213> *Enterobacter cloacae*

<400> 9777

Pro Ala Ala Ala Cys Gly Ser Pro Pro Ser Gly Gly Trp Ala Thr Cys
 1 5 10 15
 Trp Ser Ala Ala Met Lys Trp Val Lys Pro Gln Ser Leu Trp Leu Gln
 20 25 30
 Leu Leu Leu Phe Leu Gly Leu Pro Leu Leu Leu Trp Gly Leu Ser
 35 40 45
 Ala Phe Asn Ser Tyr Val Ser Ala Leu Gln Ala Ala Thr Gln Ala Tyr
 50 55 60
 Asp Arg Thr Leu Leu Ser Ser Ala Arg Thr Val Ser Glu Arg Leu Val
 65 70 75 80
 Val His Asn Gly Lys Leu Gln Val Asn Val Pro Trp Val Val Leu Asp
 85 90 95
 Ser Phe Glu Leu Asn Met Asn Asp Arg Leu Tyr Tyr Lys Val Val Asp
 100 105 110
 Pro Asp Gly Arg Thr Ile Ser Gly Tyr Asp Asp Leu Pro Asn Met Pro
 115 120 125
 Pro Ser Thr Ser Arg Thr Ser His Tyr Pro Ala Leu Ala Trp Phe Tyr
 130 135 140
 His Thr Glu Tyr Arg Gly Gln Ala Ile Arg Val Ala Lys Leu Leu Gln
 145 150 155 160
 Pro Val Asn Glu Asp Ser Val Phe Gly Met Ala Glu Ile Tyr Val Ala
 165 170 175
 Glu Thr Leu Gln Ser Arg Arg Tyr Leu Ala Thr Gln Leu Leu Phe Ser
 180 185 190
 Ser Leu Val Ser Gln Gly Leu Leu Val Leu Leu Thr Leu Val Leu Thr
 195 200 205
 Ala Trp Leu Leu Arg Arg Val Leu Arg Pro Met Arg Gln Leu Ser Ser
 210 215 220
 Leu Met Val Arg Arg Glu Pro Gly Leu Leu Ala Pro Leu Pro Glu Leu
 225 230 235 240
 Leu Pro Trp Ser Glu Thr Arg Leu Leu Ile Val Ala Phe Asn Arg Tyr
 245 250 255
 Ile Asp Arg Leu Arg Gly Val Leu Ser Arg Gln Ala Arg Phe Asn Ala
 260 265 270
 Asp Ala Ser His Gln Leu Lys Thr Pro Leu Ala Val Leu Lys Thr Gln
 275 280 285

Val Ser Val Ala Leu Thr Arg Asn Asp Pro Ala Leu Trp Gln Glu Ser
 290 295 300
 Leu Arg Ala Met Asn Val Thr Leu Asp Asn Thr Ile Val Leu Thr Glu
 305 310 315 320
 Arg Leu Leu Gln Leu Ser Ala Val Lys Arg Lys Glu Gln Gly Glu Arg
 325 330 335
 Gln Phe Ala Pro Val Asp Leu Val Gln Val Val Gln Asn Cys Cys Phe
 340 345 350
 Ser Arg Leu Ala Gln Ala Arg Ser Lys Gly Ile Asp Leu Gly Tyr Asp
 355 360 365
 Gly Val Ser Ser Arg
 370

<210> 9778

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 9778

Pro Leu Lys Trp Glu Asn Thr Met Ile Asn Val Glu Met Leu Ser Thr
 1 5 10 15
 Gly Asp Glu Val Leu His Gly Gln Ile Ile Asp Thr Asn Ala Ala Trp
 20 25 30
 Leu Ala Asp Leu Phe Phe Glu Gln Gly Leu Pro Leu Thr Arg Arg Asn
 35 40 45
 Thr Val Gly Asp Asn Leu Glu Ser Leu Val Asn Val Leu Arg Glu Arg
 50 55 60
 Ser Glu Arg Cys Asp Val Leu Ile Val Asn Gly Gly Leu Gly Pro Thr
 65 70 75 80
 Ser Asp Asp Leu Ser Ala Leu Ala Ala Thr Ala Lys Gly Glu Gly
 85 90 95
 Leu Val Leu His Glu Ala Trp Leu Ala Gln Met Glu Arg Phe Phe Ser
 100 105 110
 Glu Arg Gly Arg Val Met Ala Pro Ser Asn Arg Lys Gln Ala Glu Ile
 115 120 125
 Pro Ala Ser Ala Glu Leu Ile Asp Asn Pro Val Gly Thr Ala Cys Gly
 130 135 140
 Phe Ala Val Gln Leu Asn Arg Cys Leu Met Phe Phe Thr Pro Gly Val
 145 150 155 160
 Pro Ser Glu Phe Lys Val Met Val Glu Gln Gln Ile Leu Pro Arg Leu
 165 170 175
 Arg Ala Arg Phe Thr Leu Pro Glu Pro Pro Leu Cys Leu Arg Leu Thr
 180 185 190
 Thr Phe Gly Arg Ser Glu Ser Asp Leu Ala Gln Ser Leu Asp His Leu
 195 200 205
 Gln Leu Pro Pro Gly Val Ser Met Gly Tyr Arg Ser Ser Met Pro Ile
 210 215 220
 Ile Glu Leu Lys Leu Thr Gly Pro Ala Ser Glu Lys Ala Ala Met Leu
 225 230 235 240
 Ala Leu Trp Pro Glu Val Arg Arg Val Ala Gly Glu Ser Leu Ile Phe
 245 250 255
 Glu Gly Thr Lys Gly Leu Pro Ala Gln Ile Ala Ala His Leu Gln Ser
 260 265 270
 Arg Gln Leu Ser Val Thr Leu Ser Glu Gln Phe Thr Gly Gly Leu Leu
 275 280 285
 Ala Leu Gln Leu Thr Arg Ala Gly Ala Pro Leu Leu Ala Ser Glu Val
 290 295 300
 Val Pro Phe Gln Gln Glu Thr Leu Ala Gln Thr Ala Arg Trp Ala Ser
 305 310 315 320
 Glu Arg Arg Val Lys His Phe Ala Gly Leu Ala Leu Phe Val Gly Gly
 325 330 335

Leu Asp Glu Glu His Leu Asn Phe Ala Leu Ala Thr Pro Glu Gly Thr
 340 345 350
 His Ala Leu Arg Val Arg Met Ser Ile Thr Arg His Ser Leu Ala Val
 355 360 365
 Arg Gln Glu Val Cys Ala Met Met Ala Leu Asn Met Leu Arg Arg Trp
 370 375 380
 Leu Asn Gly Lys Glu Val Ala Ser Glu His Gly Trp Ile Asn Val Val
 385 390 395 400
 Glu Ser Leu Phe Val Glu
 405

<210> 9779

<211> 879

<212> PRT

<213> Enterobacter cloacae

<400> 9779

Met Ser Asp Leu Ala Arg Glu Ile Thr Pro Val Asn Ile Glu Glu Glu
 1 5 10 15
 Leu Lys Ser Ser Tyr Leu Asp Tyr Ala Met Ser Val Ile Val Gly Arg
 20 25 30
 Ala Leu Pro Asp Val Arg Asp Gly Leu Lys Pro Val His Arg Arg Val
 35 40 45
 Leu Tyr Ala Met Asn Val Leu Gly Asn Asp Trp Asn Lys Ala Tyr Lys
 50 55 60
 Lys Ser Ala Arg Val Val Gly Asp Val Ile Gly Lys Tyr His Pro His
 65 70 75 80
 Gly Asp Ile Ala Val Tyr Gly Thr Ile Val Arg Met Ala Gln Pro Phe
 85 90 95
 Ser Leu Arg Tyr Met Leu Val Asp Gly Gln Gly Asn Phe Gly Ser Ile
 100 105 110
 Asp Gly Asp Ser Ala Ala Ala Met Arg Tyr Thr Glu Ile Arg Leu Ala
 115 120 125
 Lys Ile Ala His Glu Leu Met Ala Asp Leu Glu Lys Glu Thr Val Asp
 130 135 140
 Phe Val Asp Asn Tyr Asp Gly Thr Glu Lys Ile Pro Asp Val Met Pro
 145 150 155 160
 Thr Lys Ile Pro Asn Leu Leu Val Asn Gly Ser Ser Gly Ile Ala Val
 165 170 175
 Gly Met Ala Thr Asn Ile Pro Pro His Asn Ile Thr Glu Val Ile Asn
 180 185 190
 Gly Cys Leu Ala Tyr Ile Asp Asp Glu Asp Ile Ser Ile Glu Gly Leu
 195 200 205
 Met Glu His Ile Pro Gly Pro Asp Phe Pro Thr Ala Ala Ile Ile Asn
 210 215 220
 Gly Arg Arg Gly Ile Glu Glu Ala Tyr Arg Thr Gly Arg Gly Lys Ile
 225 230 235 240
 Tyr Ile Arg Ala Arg Ala Glu Val Glu Ala Asp Ala Lys Thr Gly Arg
 245 250 255
 Glu Thr Ile Ile Val His Glu Ile Pro Tyr Gln Val Asn Lys Ala Arg
 260 265 270
 Leu Ile Glu Lys Ile Ala Glu Leu Val Lys Glu Lys Arg Val Glu Gly
 275 280 285
 Ile Ser Ala Leu Arg Asp Glu Ser Asp Lys Asp Gly Met Arg Ile Val
 290 295 300
 Ile Glu Ile Lys Arg Asp Ala Val Gly Glu Val Val Leu Asn Asn Leu
 305 310 315 320
 Tyr Ser Gln Thr Gln Leu Gln Val Ser Phe Gly Ile Asn Met Val Ala
 325 330 335
 Leu His His Gly Gln Pro Lys Ile Met Asn Leu Lys Glu Ile Leu Ser
 340 345 350

Ala Phe Val Arg His Arg Arg Glu Val Val Thr Arg Arg Thr Ile Phe
 355 360
 Glu Leu Arg Lys Ala Arg Asp Arg Ala His Ile Leu Glu Ala Leu Ala
 370 375 380
 Val Ala Leu Ala Asn Ile Asp Pro Ile Ile Glu Leu Ile Arg Arg Ala
 385 390 400
 Pro Thr Pro Ala Glu Ala Lys Ala Ser Leu Val Ala Arg Ser Trp Asp
 405 410 415
 Leu Gly Asn Val Ala Ala Met Leu Glu Arg Ala Gly Asp Asp Ala Ala
 420 425 430
 Arg Pro Glu Trp Leu Glu Pro Glu Phe Gly Val Arg Asp Gly Gln Tyr
 435 440 445
 Tyr Leu Thr Glu Gln Gln Ala Gln Ala Ile Leu Asp Leu Arg Leu Gln
 450 455 460
 Lys Leu Thr Gly Leu Glu His Glu Lys Leu Leu Asp Glu Tyr Lys Glu
 465 470 475 480
 Leu Leu Glu Gln Ile Ala Glu Leu Leu His Ile Leu Gly Ser Ala Glu
 485 490 495
 Arg Leu Met Glu Val Ile Arg Glu Glu Leu Glu Leu Val Arg Asp Gln
 500 505 510
 Phe Gly Asp Glu Arg Arg Thr Glu Ile Thr Ala Asn Ser Ser Asp Ile
 515 520 525
 Asn Ile Glu Asp Leu Ile Asn Arg Glu Asp Val Val Val Thr Leu Ser
 530 535 540
 His Gln Gly Tyr Val Lys Tyr Gln Pro Leu Thr Asp Tyr Glu Ala Gln
 545 550 555 560
 Arg Arg Gly Gly Lys Gly Lys Ser Ala Ala Arg Ile Lys Glu Glu Asp
 565 570 575
 Phe Ile Asp Arg Leu Leu Val Ala Asn Thr His Asp Thr Ile Leu Cys
 580 585 590
 Phe Ser Ser Arg Gly Arg Leu Tyr Trp Met Lys Val Tyr Gln Leu Pro
 595 600 605
 Glu Ala Ser Arg Gly Ala Arg Gly Arg Pro Ile Val Asn Leu Leu Pro
 610 615 620
 Leu Glu Ala Asn Glu Arg Ile Thr Ala Ile Leu Pro Val Arg Glu Tyr
 625 630 635 640
 Glu Glu Gly Val Asn Val Phe Met Ala Thr Ala Ser Gly Thr Val Lys
 645 650 655
 Lys Thr Ala Leu Thr Glu Phe Ser Arg Pro Arg Ser Ala Gly Ile Ile
 660 665 670
 Ala Val Asn Leu Asn Glu Gly Asp Glu Leu Ile Gly Val Asp Leu Thr
 675 680 685
 Ser Gly Ser Asp Glu Val Met Leu Phe Ser Ala Ala Gly Lys Val Val
 690 695 700
 Arg Phe Lys Glu Asn Ala Val Arg Ala Met Gly Arg Thr Ala Thr Gly
 705 710 715 720
 Val Arg Gly Ile Lys Leu Ala Gly Glu Asp Ser Val Val Ser Leu Ile
 725 730 735
 Val Pro Arg Gly Glu Gly Ala Ile Leu Thr Val Thr Gln Asn Gly Tyr
 740 745 750
 Gly Lys Arg Thr Ala Glu Ser Glu Tyr Pro Thr Lys Ser Arg Gly Thr
 755 760 765
 Gln Gly Val Ile Ser Ile Lys Val Thr Glu Arg Asn Gly Ser Val Val
 770 775 780
 Gly Ala Val Gln Val Asp Asp Ala Asp Gln Ile Met Met Ile Thr Asp
 785 790 795 800
 Ala Gly Thr Leu Val Arg Thr Arg Val Ser Glu Ile Ser Val Val Gly
 805 810 815
 Arg Asn Thr Gln Gly Val Ile Leu Ile Arg Thr Ala Glu Asp Glu Asn
 820 825 830
 Val Val Gly Leu Gln Arg Val Ala Glu Pro Val Asp Asp Glu Glu Leu

835 840 845
 Asp Ser Ile Asp Gly Ser Val Ala Glu Gly Asp Asp Glu Ile Ala Pro
 850 855 860
 Glu Ala Asp Ile Asp Asp Glu Ala Ala Asp Asp Ala Asp Glu
 865 870 875

<210> 9780

<211> 957

<212> PRT

<213> Enterobacter cloacae

<400> 9780

Pro Arg Arg Arg Ser Leu Ala Pro Leu Lys Tyr Leu Val Ser Phe Arg
 1 5 10
 Thr Thr Leu Lys Val Ser Arg Tyr Leu Phe Arg Ala Leu Ala Leu Leu
 20 25 30
 Leu Trp Leu Leu Val Ala Leu Leu Ser Val Phe Tyr Ile Val Asn Ala
 35 40 45
 Leu His Gln Lys Glu Ala Glu Ile Arg Gln Glu Phe Asn Leu Ser Ser
 50 55 60
 Asp Gln Ala Gln Arg Tyr Ile Gln Arg Thr Ser Asp Val Met Lys Glu
 65 70 75 80
 Leu Lys Tyr Ile Ala Glu Asn Arg Leu Thr Ala Glu Asn Gly Ile Leu
 85 90 95
 Ala Ile Arg Gly Arg Asp Glu Lys Thr Glu Val Pro Asp Phe Glu Pro
 100 105 110
 Leu Phe Pro Asp Ser Asp Cys Ser Ala Met Gly Lys Ala Trp Arg Gly
 115 120 125
 Ser Leu Glu Ser Leu Ser Trp Phe Met Arg Tyr Trp Arg Asp Asn Phe
 130 135 140
 Ser Ala Ala Tyr Asp Leu Asn Arg Val Tyr Leu Ile Ser Asn Glu Asn
 145 150 155 160
 Leu Cys Met Ala Asp Phe Gly Leu Arg Asp Met Pro Val Glu Arg Glu
 165 170 175
 Asp Ala Leu Lys Ser Leu His Glu Arg Ile Val Lys Tyr Arg Asn Ala
 180 185 190
 Pro Gln Glu Glu Arg Gly Asn Asn Ile Phe Trp Ile Ser Gln Gly Pro
 195 200 205
 Arg Met Gly Val Gly Tyr Phe Tyr Ala Leu Thr Pro Val Tyr Leu Gly
 210 215 220
 Asn Arg Leu Gln Ala Leu Leu Gly Ile Glu Gln Thr Ile Arg Met Glu
 225 230 235 240
 Asn Phe Phe Thr Pro Gly Ser Leu Pro Met Gly Val Thr Ile Leu Asp
 245 250 255
 Glu Asn Gly His Pro Leu Ile Ser Leu Thr Gly Pro Glu Asn Arg Leu
 260 265 270
 Lys Val Glu Pro Ser Trp Met Gln Glu Arg Ser Trp Phe Gly Tyr Thr
 275 280 285
 Ser Gly Phe Arg Glu Leu Val Leu Lys Lys Ser Leu Pro Pro Ser Ser
 290 295 300
 Leu Ser Ile Val Tyr Ser Leu Pro Val Asp Lys Val Leu Glu Arg Ile
 305 310 315 320
 Arg Ile Leu Ile Leu Asn Ala Ile Leu Leu Asn Ile Ala Val Gly Val
 325 330 335
 Ala Leu Phe Met Leu Ala Arg Met Tyr Glu Arg Arg Ile Phe Ile Pro
 340 345 350
 Ala Glu Ala Asp Ala Gln Arg Leu Glu Glu His Glu Gln Phe Asn Arg
 355 360 365
 Lys Ile Val Ala Ser Ala Pro Val Gly Ile Cys Ile Leu Arg Thr Gln
 370 375 380
 Asp Gly Thr Asn Ile Leu Ser Asn Glu Leu Ala His Asn Tyr Leu Asn

385					390					395					400
Met	Leu	Thr	His	Glu	Asp	Arg	Gln	Arg	Leu	Thr	Gln	Ile	Ile	Cys	Gly
				405					410					415	
Gln	Gln	Val	Asn	Phe	Val	Asp	Val	Leu	Thr	Ser	Thr	His	Thr	Asn	Leu
				420				425					430		
Gln	Ile	Ser	Phe	Val	His	Ser	Arg	Tyr	Arg	Asn	Glu	Asn	Val	Ala	Ile
				435				440					445		
Cys	Val	Leu	Val	Asp	Val	Ser	Ala	Arg	Val	Lys	Met	Glu	Glu	Ser	Leu
				450				455					460		
Gln	Asp	Met	Ala	Gln	Ala	Ala	Glu	Gln	Ala	Ser	Gln	Ser	Lys	Ser	Met
				470						475				480	
Phe	Leu	Ala	Thr	Val	Ser	His	Glu	Leu	Arg	Thr	Pro	Leu	Tyr	Gly	Ile
				485					490					495	
Ile	Gly	Asn	Leu	Asp	Leu	Leu	Gln	Thr	Lys	Glu	Leu	Pro	Lys	Gly	Val
				500				505					510		
Asp	Arg	Leu	Val	Thr	Ala	Met	Asn	Asn	Ser	Ser	Ser	Leu	Leu	Leu	Lys
				515				520					525		
Ile	Ile	Ser	Asp	Ile	Leu	Asp	Phe	Ser	Lys	Ile	Glu	Ser	Glu	Gln	Leu
				530			535				540				
Lys	Ile	Glu	Pro	Arg	Glu	Phe	Ser	Pro	Arg	Glu	Val	Met	Asn	His	Ile
				545			550			555				560	
Cys	Ala	Asn	Tyr	Leu	Pro	Leu	Val	Val	Arg	Lys	Gln	Leu	Gly	Leu	Tyr
				565				570						575	
Cys	Phe	Ile	Glu	Pro	Asp	Val	Pro	Leu	Thr	Leu	His	Gly	Asp	Pro	Met
				580				585					590		
Arg	Leu	Gln	Gln	Val	Ile	Ser	Asn	Leu	Leu	Ser	Asn	Ala	Ile	Lys	Phe
				595			600					605			
Thr	Asp	Ile	Gly	Cys	Ile	Val	Leu	His	Val	Cys	Arg	Ala	Gly	Glu	Tyr
				610			615				620				
Leu	Thr	Ile	Arg	Val	Arg	Asp	Thr	Gly	Val	Gly	Ile	Pro	Ala	Lys	Glu
				625			630			635				640	
Val	Val	Arg	Leu	Phe	Asp	Pro	Phe	Phe	Gln	Val	Gly	Thr	Gly	Val	Gln
				645				650						655	
Arg	Asn	Phe	Gln	Gly	Thr	Gly	Leu	Gly	Leu	Ala	Ile	Cys	Glu	Lys	Leu
				660				665					670		
Ile	Ser	Met	Met	Asp	Gly	Asp	Ile	Ser	Val	Asp	Thr	Glu	Pro	Gly	Met
				675			680					685			
Gly	Ser	Gln	Phe	Thr	Ile	Arg	Ile	Pro	Leu	Tyr	Ser	Ala	His	Tyr	Pro
				690			695				700				
Ala	Lys	Thr	Thr	Val	Asp	Gly	Leu	Ser	Asp	Lys	His	Cys	Trp	Leu	Ala
				705			710			715				720	
Val	His	Asn	Ala	Ser	Leu	His	Asp	Phe	Leu	Thr	Ser	Met	Leu	Thr	Ser
				725				730						735	
Ser	Gly	Val	Arg	Val	Ser	Arg	Tyr	Glu	Gly	Gln	Thr	Pro	Gly	Ala	Asp
				740											

Leu Ser Asp Val Asn Met Pro Asn Met Asp Gly Tyr Arg Leu Thr Gln
 885 890
 Arg Ile Arg Gln Leu Gly Leu Thr Leu Pro Val Val Gly Val Thr Ala
 900 905 910
 Asn Ala Leu Ala Glu Glu Lys Gln Arg Cys Leu Glu Ser Gly Met Asp
 915 920 925
 Ser Cys Leu Ser Lys Pro Val Thr Leu Asp Val Leu Lys Gln Thr Leu
 930 935 940
 Ser Val Tyr Ala Glu Arg Val Arg Lys Ala Arg Gln
 945 950 955

<210> 9781

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9781

Tyr Arg Phe Cys Tyr Val Arg Cys Gly Pro Leu Ile Met His Glu Asn
 1 5 10 15
 Gln Gln Pro Gln Thr Glu Ala Phe Glu Leu Ser Glu Ala Glu Arg Ala
 20 25 30
 Ala Ile Glu His Glu Met His His Tyr Glu Asp Pro Arg Ala Ala Ser
 35 40 45
 Ile Glu Ala Leu Lys Ile Val Gln Lys Gln Arg Gly Trp Val Pro Asp
 50 55 60
 Gly Ala Ile Tyr Ala Ile Ala Glu Val Leu Gly Ile Pro Ala Ser Asp
 65 70 75 80
 Val Glu Gly Val Ala Thr Phe Tyr Ser Gln Ile Phe Arg Gln Pro Val
 85 90 95
 Gly Arg His Val Ile Arg Tyr Cys Asp Ser Val Val Cys His Ile Thr
 100 105 110
 Gly Tyr Gln Gly Ile Gln Ala Ala Ile Glu Lys Lys Leu Asn Ile Lys
 115 120 125
 Pro Gly Gln Thr Thr Phe Asp Gly Arg Phe Thr Leu Leu Pro Thr Cys
 130 135 140
 Cys Leu Gly Asn Cys Asp Lys Gly Pro Thr Met Met Ile Asp Glu Asp
 145 150 155 160
 Thr His Ser His Leu Thr Pro Glu Ala Ile Pro Asp Leu Leu Glu Gln
 165 170 175
 Tyr Lys

<210> 9782

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 9782

Cys Trp Lys Ala Gly Ala Gly Cys Thr Leu Cys Thr Ala Pro Cys Arg
 1 5 10 15
 Ala Val Lys Trp Thr Gly Arg Ser Ser Thr Thr Leu Ser Thr Arg Leu
 20 25 30
 Leu Arg Asn Cys Leu Ser Trp Arg Val Leu Lys Met Pro Arg Arg Thr
 35 40 45
 Gln Ala Ser Ala Phe Ala Ala Arg Asn Trp Arg Val Ser Arg Thr Ala
 50 55 60
 Thr Ala Val Val Pro Arg Cys Ala Pro Thr Ser Ala Cys Thr Asn Arg
 65 70 75 80
 Val Ser Arg Arg Ile Lys Thr Pro Cys Ser Pro Ser Arg Trp Lys Gly
 85 90 95
 Thr Thr Ser Arg Leu Arg Arg Val Arg Lys Ser Arg Leu His Gly His

100 105 110
 Arg Ala Gly Thr Pro Arg Arg His Gly Thr Asn Ser Arg Leu Lys Trp
 115 120 125
 Ala Val Thr Cys Ala Thr Ala Ile Gln Ala Cys Val
 130 135 140

<210> 9783
 <211> 217
 <212> PRT
 <213> Enterobacter cloacae

<400> 9783
 Pro Gly Asn Val Leu Arg Leu Glu Ser Val Pro Ala Ala Asp Ala Arg
 1 5 10 15
 Gln Leu Val Gly Asn Gly Gly Cys His Ser Leu Ala Ala Ile Arg
 20 25 30
 Gly Phe Glu Ile Met Thr Leu Lys Glu Leu Leu Val Gly Phe Gly Thr
 35 40 45
 Gln Val Arg Ser Ile Trp Met Ile Gly Leu His Ala Phe Ala Lys Arg
 50 55 60
 Glu Thr Arg Met Tyr Pro Glu Glu Pro Val Tyr Leu Pro Pro Arg Tyr
 65 70 75 80
 Arg Gly Arg Ile Val Leu Thr Arg Asp Pro Asp Gly Ser Glu Arg Cys
 85 90 95
 Val Ala Cys Asn Leu Cys Ala Val Ala Cys Pro Val Gly Cys Ile Ser
 100 105 110
 Leu Gln Lys Ala Glu Thr Val Asp Gly Arg Trp Tyr Pro Glu Phe Phe
 115 120 125
 Arg Ile Asn Phe Ser Arg Cys Ile Phe Cys Gly Leu Cys Glu Glu Ala
 130 135 140
 Cys Pro Thr Thr Ala Ile Gln Leu Thr Pro Asp Phe Glu Leu Gly Glu
 145 150 155 160
 Tyr Lys Arg Gln Asp Leu Val Tyr Glu Lys Glu Asp Leu Leu Ile Ser
 165 170 175
 Gly Pro Gly Lys Tyr Pro Glu Tyr Asn Phe Tyr Arg Met Ala Gly Met
 180 185 190
 Ala Ile Asp Gly Lys Asp Lys Gly Glu Ala Glu Asn Glu Ala Lys Pro
 195 200 205
 Ile Asp Val Lys Ser Leu Leu Pro
 210 215

<210> 9784
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 9784
 Arg Pro Arg Glu Lys Lys Asn Gly Gly Thr Arg Met Ile Pro Leu Thr
 1 5 10 15
 His Gly Leu Ile Leu Ala Ala Ile Leu Phe Val Leu Gly Leu Thr Gly
 20 25 30
 Leu Val Ile Arg Arg Asn Leu Leu Phe Met Leu Ile Gly Leu Glu Ile
 35 40 45
 Met Ile Asn Ala Ser Ala Leu Ala Phe Val Val Ala Gly Ser Tyr Trp
 50 55 60
 Gly Gln Thr Asp Gly Gln Val Met Tyr Ile Leu Ala Ile Ser Leu Ala
 65 70 75 80
 Ala Ala Glu Ala Ser Ile Gly Leu Ala Leu Leu Gln Leu His Arg
 85 90 95
 Arg Arg Gln Asn Leu Asn Ile Asp Ser Val Ser Glu Leu Arg Gly
 100 105 110

<210> 9785

<211> 166

<212> PRT

<213> *Enterobacter cloacae*

<400> 9785

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Tyr Asn Val Met Asn Pro Arg Lys Glu Lys His Met Ile Gln Trp Gln
1          5          10          15
Asp Leu His His Ser Glu Leu Thr Val Gln Ser Leu Tyr Ala Leu Leu
          20          25          30
Lys Leu Arg Cys Glu Val Phe Val Val Glu Gln Thr Cys Pro Tyr Gln
          35          40          45
Asp Ile Asp Gly Asp Asp Leu Val Gly Glu Asn Arg His Ile Leu Gly
          50          55          60
Trp Arg Asp Asn Glu Leu Val Ala Tyr Ala Arg Ile Leu Lys Ser Glu
          65          70          75          80
Glu Glu Phe Asp Pro Val Val Ile Gly Arg Val Ile Ile Ser Gly Arg
          85          90          95
Ala Arg Gly Glu Lys Leu Gly Tyr Gln Leu Met Glu Lys Thr Leu Asp
          100          105          110
Ala Cys Gln Lys Gln Trp Pro Asp Lys Ala Leu Tyr Leu Gly Ala Gln
          115          120          125
Ala His Leu Gln Ser Phe Tyr Gly His Phe Gly Phe Thr Pro Val Thr
          130          135          140
Asp Ile Tyr Asp Glu Asp Gly Ile Pro His Ile Gly Met Ala Arg Glu
          145          150          155          160
Ala Lys Gln Ala Gln
          165

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<210> 9786

<211> 69

<212> PRT

<213> *Enterobacter cloacae*

<400> 9786

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Ala Ile Leu Thr Ala Gly Trp Asn Cys Ile Arg Arg Lys Asn Ala Asn
1          5          10          15
Pro Gly Arg Trp Arg Ser Arg Arg Cys His Val Arg Arg Gly Asn Ser
          20          25          30
Pro Lys Arg Ser Ala Arg Arg Ser Val Lys Pro Gly Trp Arg Thr Val
          35          40          45
Ser Ala Asn Ile Phe Pro Ser Arg Asp Asn Phe Leu Ser Val Thr Ala
          50          55          60
Trp Trp Cys Ala
65

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<210> 9787

<211> 323

<212> PRT

<213> *Enterobacter cloacae*

<400> 9787

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Arg His Ala Ser Cys Tyr Pro Ser Arg Arg Thr Gln Arg Pro Pro Gly
1          5          10          15
Gln Pro Gly Ser Cys Cys Arg Glu Ser Gly Ser Asp Thr Ala Leu Ser
          20          25          30
Asn Lys Gly His Ala Met Ile Tyr Pro Asp Glu His Met Leu Tyr Ala
          35          40          45
Pro Val Glu Trp Gln Asp Cys Ser Glu Gly Tyr Thr Asp Ile Arg Tyr
          50          55          60

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His Lys Ser Ala Asp Gly Ile Ala Lys Ile Thr Ile Asn Arg Pro Gln
 65 70 75 80
 Val Arg Asn Ala Phe Arg Pro Leu Thr Val Lys Glu Met Ile Gln Ala
 85 90 95
 Leu Ala Asp Ala Arg Tyr Asp Asp Thr Val Gly Val Ile Ile Leu Thr
 100 105 110
 Gly Glu Gly Glu Lys Ala Phe Cys Ser Gly Gly Asp Gln Lys Val Arg
 115 120 125
 Gly Asp Tyr Gly Gly Tyr Gln Asp Asp Ala Gly Thr His His Leu Asn
 130 135 140
 Val Leu Asp Phe Gln Arg Gln Ile Arg Thr Cys Pro Lys Pro Val Val
 145 150 155 160
 Ala Met Val Ala Gly Tyr Ser Ile Gly Gly His Val Leu His Met
 165 170 175
 Met Cys Asp Leu Thr Ile Ala Ala Glu Asn Ala Ile Phe Gly Gln Thr
 180 185 190
 Gly Pro Lys Val Gly Ser Phe Asp Gly Gly Trp Gly Ala Ser Tyr Met
 195 200 205
 Ala Arg Ile Val Gly Gln Lys Lys Ala Arg Glu Ile Trp Phe Leu Cys
 210 215 220
 Arg Gln Tyr Asn Ala Gln Glu Ala Leu Asp Met Gly Leu Val Asn Thr
 225 230 235 240
 Val Val Pro Ile Ala Asp Leu Glu Lys Glu Thr Val Arg Trp Cys Arg
 245 250 255
 Glu Met Leu Gln Asn Ser Pro Met Ala Leu Arg Cys Leu Lys Ala Ala
 260 265 270
 Leu Asn Ala Asp Cys Asp Gly Gln Ala Gly Leu Gln Glu Leu Ala Gly
 275 280 285
 Asn Ala Thr Met Leu Phe Tyr Met Thr Glu Glu Gly Gln Glu Gly Arg
 290 295 300
 Asn Ala Phe Asn Glu Lys Arg Gln Pro Asp Phe Ser Lys Tyr Lys Arg
 305 310 315 320
 Asn Pro

<210> 9788

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 9788

Leu Leu Arg Leu Gly Arg Arg Leu Tyr Gly Asp Asp Arg Arg Gln Arg
 1 5 10 15
 Ala Gly Gly Ser Ala Ala Gly Cys Cys Asp Asp Arg Arg Glu Thr Ser
 20 25 30
 Pro Arg Gly Ser Ala Gly Ala Ser Ser Ile Arg Ser Ile Ala Met Lys
 35 40 45
 Leu Thr Pro Leu Thr Thr Gly Leu Leu Leu Ala Gly Leu Met Thr Gly
 50 55 60
 Ser Ala Leu Ala Ala Asp Lys Ile Val Ile Ala His Arg Gly Ala Ser
 65 70 75 80
 Gly Tyr Leu Pro Glu His Thr Leu Pro Ala Lys Ala Met Ala Tyr Ala
 85 90 95
 Gln Gly Ala Asp Tyr Leu Glu Gln Asp Leu Val Met Thr Lys Asp Asp
 100 105 110
 Gln Leu Val Val Leu His Asp His Tyr Leu Asp Arg Val Thr Asp Val
 115 120 125
 Ala Glu Arg Phe Pro Asp Arg Ala Arg Lys Asp Gly Arg Tyr Tyr Ala
 130 135 140
 Ile Asp Phe Thr Leu Asp Glu Ile Arg Ser Leu Lys Phe Thr Glu Gly
 145 150 155 160

Phe Glu Ile Glu Asn Gly Lys Lys Val Gln Val Tyr Pro Gly Arg Phe
 165 170 175
 Pro Met Gly Lys Ser Asp Phe Arg Ile His Thr Phe Gln Glu Glu Ile
 180 185 190
 Glu Phe Val Gln Gly Leu Asn His Ser Thr Gly Lys Asn Ile Gly Ile
 195 200 205
 Tyr Pro Glu Ile Lys Ala Pro Trp Phe His His Gln Glu Gly Lys Asp
 210 215 220
 Ile Ala Ala Lys Thr Leu Glu Val Leu Lys Gln Tyr Gly Tyr Thr Ser
 225 230 235 240
 Lys Lys Asp Lys Val Tyr Leu Gln Cys Phe Asp Ala Ala Glu Leu Lys
 245 250 255
 Arg Ile Lys Thr Glu Leu Glu Pro Lys Met Gly Met Asp Leu Asn Leu
 260 265 270
 Val Gln Leu Ile Ala Tyr Thr Asp Trp Asn Glu Thr Gln Glu Lys Gln
 275 280 285
 Pro Asp Gly Lys Trp Val Asn Tyr Ser Tyr Asp Trp Met Phe Lys Pro
 290 295 300
 Gly Ala Met Lys Gln Ile Ala Gln Tyr Ala Asp Gly Ile Gly Pro Asp
 305 310 315 320
 Tyr His Met Leu Val Ala Glu Gly Ser Thr Pro Gly His Val Lys Leu
 325 330 335
 Thr Ala Met Val Lys Glu Ala His Ala Ser Lys Met Gln Val His Pro
 340 345 350
 Tyr Thr Val Arg Ala Asp Gln Leu Pro Pro Tyr Ala Thr Asp Val Asn
 355 360 365
 Gln Leu Tyr Glu Val Leu Tyr Lys Gln Ala Asp Val Asp Gly Leu Phe
 370 375 380
 Thr Asp Phe Pro Asp Lys Ala Val Thr Phe Leu Lys
 385 390 395

<210> 9789

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 9789

Phe Val Arg Lys Met Pro Leu Ala Leu Lys Asn Thr Ser Ala Thr Leu
 1 5 10 15
 Thr Leu Thr Ser Arg Ala Cys Cys Ser Lys Val Ala Leu Tyr Met Asn
 20 25 30
 Asn Met Asn Val Ile Ile Ala Asp Asp His Pro Ile Val Leu Phe Gly
 35 40 45
 Ile Arg Lys Ser Leu Glu Gln Ile Glu Trp Val Asn Val Val Gly Glu
 50 55 60
 Phe Glu Asp Ser Thr Ala Leu Ile Asn Asn Leu Pro Lys Leu Asp Ala
 65 70 75 80
 His Val Leu Ile Thr Asp Leu Ser Met Pro Gly Asp Lys Tyr Gly Asp
 85 90 95
 Gly Ile Thr Leu Ile Lys Tyr Ile Lys Arg His Phe Pro Asp Ile Ser
 100 105 110
 Ile Ile Val Leu Thr Met Asn Asn Asn Pro Ala Ile Leu Ser Ala Val
 115 120 125
 Leu Asp Leu Asp Ile Glu Gly Ile Val Leu Lys Gln Gly Ala Pro Thr
 130 135 140
 Asp Leu Pro Lys Ala Leu Ala Ala Leu Gln Lys Gly Lys Lys Phe Thr
 145 150 155 160
 Pro Glu Ser Val Ser Arg Leu Leu Glu Lys Ile Ser Ala Gly Gly Tyr
 165 170 175
 Gly Asp Lys Arg Leu Ser Pro Lys Glu Ser Glu Val Leu Arg Leu Phe
 180 185 190

Ala Glu Gly Phe Leu Val Thr Glu Ile Ala Lys Lys Leu Asn Arg Ser
 195 200 205
 Ile Lys Thr Ile Ser Ser Gln Lys Lys Ser Ala Met Met Lys Leu Gly
 210 215 220
 Val Asp Asn Asp Ile Ala Leu Leu Asn Tyr Leu Ser Ser Val Thr Leu
 225 230 235 240
 Ser Ala Thr Asp Lys Asp
 245

<210> 9790

<211> 776

<212> PRT

<213> *Enterobacter cloacae*

<400> 9790

Gly Gly Gly Tyr Phe Leu Phe His Gly Gln Val Lys Thr His Met Asn
 1 5 10 15
 Gln Ser Leu Leu Val Thr Lys Arg Asp Gly Thr Thr Glu Arg Ile Asn
 20 25 30
 Leu Asp Lys Ile His Arg Val Leu Asp Trp Ala Ala Glu Gly Leu Asn
 35 40 45
 Asn Val Ser Ile Ser Gln Val Glu Leu Arg Ser His Ile Gln Phe Tyr
 50 55 60
 Asp Gly Ile Lys Thr Ser Asp Ile His Glu Thr Ile Ile Lys Ala Ala
 65 70 75 80
 Ala Asp Leu Ile Ser Arg Asp Ala Pro Asp Tyr Gln Tyr Leu Ala Ala
 85 90 95
 Arg Leu Ala Ile Phe His Leu Arg Lys Lys Ala Tyr Gly Gln Phe Glu
 100 105 110
 Pro Pro Lys Leu Tyr Asp His Val Val Lys Met Val Glu Leu Gly Lys
 115 120 125
 Tyr Asp Thr His Leu Leu Glu Asp Tyr Thr Glu Glu Glu Phe Glu Gln
 130 135 140
 Met Asn Gly Phe Ile Asp His Trp Arg Asp Met Asn Phe Ser Tyr Ala
 145 150 155 160
 Ala Val Lys Gln Leu Glu Gly Lys Tyr Leu Val Gln Asn Arg Val Thr
 165 170 175
 Gly Glu Ile Tyr Glu Ser Ala Gln Phe Leu Tyr Ile Leu Val Ala Ala
 180 185 190
 Cys Leu Phe Ser Asn Tyr Pro Arg Glu Thr Arg Leu Asp Tyr Val Lys
 195 200 205
 Arg Phe Tyr Asp Ala Val Ser Thr Phe Lys Ile Ser Leu Pro Thr Pro
 210 215 220
 Ile Met Ser Gly Val Arg Thr Pro Thr Arg Gln Phe Ser Ser Cys Val
 225 230 235 240
 Leu Ile Glu Cys Gly Asp Ser Leu Asp Ser Ile Asn Ala Thr Ser Ser
 245 250 255
 Ala Ile Val Lys Tyr Val Ser Gln Arg Ala Gly Ile Gly Ile Asn Ala
 260 265 270
 Gly Arg Ile Arg Ala Leu Gly Ser Pro Ile Arg Gly Gly Glu Ala Phe
 275 280 285
 His Thr Gly Cys Ile Pro Phe Tyr Lys His Phe Gln Thr Ala Val Lys
 290 295 300
 Ser Cys Ser Gln Gly Gly Val Arg Gly Gly Ala Ala Thr Leu Phe Tyr
 305 310 315 320
 Pro Met Trp His Leu Glu Val Glu Ser Leu Leu Val Leu Lys Asn Asn
 325 330 335
 Arg Gly Val Glu Gly Asn Arg Val Arg His Met Asp Tyr Gly Val Gln
 340 345 350
 Ile Asn Lys Leu Met Tyr Thr Arg Leu Leu Lys Gly Glu Asp Ile Thr
 355 360 365

Leu Phe Ser Pro Ser Asp Val Pro Gly Leu Tyr Asp Ala Phe Phe Ala
 370 375 380
 Asp Gln Asp Glu Phe Glu Arg Leu Tyr Thr Lys Tyr Glu Lys Asp Asp
 385 390 395
 Ser Ile Arg Lys Gln Arg Val Lys Ala Val Asp Leu Phe Ser Leu Met
 400 405 410 415
 Met Gln Glu Arg Ala Ser Thr Gly Arg Ile Tyr Ile Gln Asn Val Asp
 420 425 430
 His Cys Asn Thr His Ser Pro Phe Asp Pro Val Val Ala Pro Val Arg
 435 440 445
 Gln Ser Asn Leu Cys Leu Glu Ile Ala Leu Pro Thr Lys Pro Leu Asp
 450 455 460
 Asp Val Asn Asp Glu Asn Gly Glu Ile Ala Leu Cys Thr Leu Ser Ala
 465 470 475 480
 Phe Asn Leu Gly Ala Ile Lys Ser Leu Asp Glu Leu Glu Glu Leu Ala
 485 490 495
 Val Leu Ala Val Arg Ala Leu Asp Ala Leu Leu Asp Tyr Gln Asp Tyr
 500 505 510
 Pro Ile Pro Ala Ala Lys Arg Gly Ala Met Gly Arg Arg Thr Leu Gly
 515 520 525
 Ile Gly Val Ile Asn Phe Ala Tyr Trp Leu Ala Lys Asn Gly Lys Arg
 530 535 540
 Tyr Ser Asp Gly Ser Ala Asn Asn Leu Thr His Gln Thr Phe Glu Ala
 545 550 555 560
 Ile Gln Tyr Tyr Leu Met Lys Ala Ser Asn Glu Leu Ala Lys Glu Gln
 565 570 575
 Gly Ala Cys Pro Trp Phe Asn Glu Thr Thr Tyr Ala Lys Gly Ile Leu
 580 585 590
 Pro Ile Asp Thr Tyr Lys Lys Asp Leu Asp Ala Ile Val Ser Glu Pro
 595 600 605
 Leu His Leu Asp Trp Glu Gly Leu Arg Glu Ser Ile Lys Thr His Gly
 610 615 620
 Leu Arg Asn Ser Thr Leu Ser Ala Leu Met Pro Ser Glu Thr Ser Ser
 625 630 635 640
 Gln Ile Ser Asn Ala Thr Asn Gly Ile Glu Pro Pro Arg Gly His Val
 645 650 655
 Ser Ile Lys Ala Ser Lys Asp Gly Val Leu Arg Gln Val Val Pro Asp
 660 665 670
 Tyr Glu Thr Leu Gly Asp Asn Tyr Glu Leu Leu Trp Glu Met Pro Asn
 675 680 685
 Asn Asp Gly Tyr Leu Gln Leu Val Gly Ile Met Gln Lys Phe Ile Asp
 690 695 700
 Gln Ser Ile Ser Ala Asn Thr Asn Tyr Asp Pro Thr Arg Phe Pro Ser
 705 710 715 720
 Gly Lys Val Pro Met Gln Gln Leu Leu Lys Asp Leu Leu Thr Ala Tyr
 725 730 735
 Lys Phe Gly Val Lys Thr Leu Tyr Tyr His Asn Thr Arg Asp Gly Ala
 740 745 750
 Glu Asp Ala Gln Asp Asp Leu Ala Pro Ser Ile Gln Asp Asp Gly Cys
 755 760 765
 Glu Ser Gly Ala Cys Lys Ile
 770 775

<210> 9791

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 9791

Pro Ser Pro Thr Gly Arg Gly Asn Ser Phe Pro Leu Ser Leu Trp Glu
 1 5 10 15

Arg Ala Gly Val Arg Gly Asn Asn Thr Thr Gly Leu Thr Ala Met Ala
 20 25 30
 Tyr Thr Thr Phe Ser Gln Thr Lys Asn Asp Gln Leu Lys Glu Pro Met
 35 40 45
 Phe Phe Gly Gln Pro Val Asn Val Ala Arg Tyr Asp Gln Gln Lys Tyr
 50 55 60
 Asp Ile Phe Glu Lys Leu Ile Glu Lys Gln Leu Ser Phe Phe Trp Arg
 65 70 75 80
 Pro Glu Glu Val Asp Val Ser Arg Asp Arg Ile Asp Phe Gln Ala Leu
 85 90 95
 Pro Glu His Glu Lys His Ile Phe Leu Ser Asn Leu Lys Tyr Gln Thr
 100 105 110
 Leu Leu Asp Ser Ile Gln Gly Arg Ser Pro Asn Val Ala Leu Leu Pro
 115 120 125
 Leu Ile Ser Ile Pro Glu Leu Glu Thr Trp Val Glu Thr Trp Ala Phe
 130 135 140
 Ser Glu Thr Ile His Ser Arg Ser Tyr Thr His Ile Ile Arg Asn Ile
 145 150 155 160
 Val Asn Asp Pro Ala Val Val Phe Asp Asp Ile Val Thr Asn Glu Gln
 165 170 175
 Ile Gln Lys Arg Ala Glu Gly Ile Ala His Tyr Tyr Asp Glu Leu Ile
 180 185 190
 Glu Met Thr Ser Tyr Trp His Leu Leu Gly Glu Gly Thr His Asn Val
 195 200 205
 Asn Gly Lys Thr Val Thr Val Asn Leu Arg Ala Leu Lys Lys Gln Leu
 210 215 220
 Tyr Leu Cys Leu Met Ser Val Asn Ala Leu Glu Ala Ile Arg Phe Tyr
 225 230 235 240
 Val Ser Phe Ala Cys Ser Phe Ala Phe Ala Glu Arg Lys Leu Met Glu
 245 250 255
 Gly Asn Ala Lys Ile Ile Arg Leu Ile Ala Arg Asp Glu Ala Leu His
 260 265 270
 Leu Thr Gly Thr Gln His Met Leu Asn Leu Leu Arg Ser Gly Ala Asp
 275 280 285
 Asp Pro Glu Met Ala Glu Ile Ala Glu Glu Cys Lys Gln Glu Cys Tyr
 290 295 300
 Asp Leu Phe Leu Gln Ala Ala Gln Gln Glu Lys Glu Trp Ala Asp Tyr
 305 310 315 320
 Leu Phe Arg Asp Gly Ser Met Ile Gly Leu Asn Lys Asp Ile Leu Cys
 325 330 335
 Gln Tyr Val Glu Tyr Ile Thr Asn Ile Arg Met Gln Ala Val Gly Leu
 340 345 350
 Asp Leu Pro Phe Gln Thr Arg Ser Asn Pro Ile Pro Trp Ile Asn Thr
 355 360 365
 Trp Leu Val Ser Asp Asn Val Gln Val Ala Pro Gln Glu Val Glu Val
 370 375 380
 Ser Ser Tyr Leu Val Gly Gln Ile Asp Ser Glu Val Asn Thr Asp Asp
 385 390 395 400
 Leu Ser Asp Phe Gln Leu
 405

<210> 9792

<211> 510

<212> PRT

<213> Enterobacter cloacae

<400> 9792

Leu Thr Glu His Ala Met Asp Thr Trp Ile Tyr Leu Ser Gln Gly Phe
 1 5 10 15
 Ala Val Ala Met Thr Pro Glu Asn Leu Val Ile Ala Leu Ile Gly Cys
 20 25 30

Phe Val Gly Thr Ile Val Gly Leu Leu Pro Gly Leu Gly Pro Ile Asn
 35 40 45
 Gly Val Ala Ile Leu Leu Pro Leu Ala Phe Ala Leu His Leu Pro Ala
 50 55 60
 Glu Ser Ala Leu Ile Leu Leu Ala Thr Val Tyr Ile Gly Cys Glu Tyr
 65 70 75 80
 Gly Gly Arg Ile Ser Ser Ile Leu Leu Asn Val Pro Gly Asp Ala Ala
 85 90 95
 Ala Ile Met Thr Thr Ala Leu Asp Gly Tyr Pro Met Ala Gln Gln Gly Arg
 100 105 110
 Gly Gly Val Ala Leu Ser Ile Ser Ala Val Ser Ser Phe Phe Gly Ser
 115 120 125
 Leu Ile Ala Ile Gly Gly Ile Ile Leu Phe Ala Pro Ala Leu Ala Gln
 130 135 140
 Trp Ser Leu Ala Phe Gly Pro Ala Glu Tyr Phe Ala Leu Met Val Phe
 145 150 155 160
 Ala Ile Ala Cys Leu Gly Ser Met Met Ala Gln Asn Pro Leu Lys Ser
 165 170 175
 Phe Leu Ser Ala Leu Ile Gly Leu Ser Leu Ala Thr Val Gly Val Asp
 180 185 190
 Ala Asn Thr Gly Val Tyr Arg Phe Thr Phe Asp Ser Val His Leu Ser
 195 200 205
 Asp Gly Val Gln Phe Ile Val Val Val Ile Gly Leu Phe Ser Val Ser
 210 215 220
 Glu Ile Leu Leu Met Leu Glu His Thr Ser Ser Gly Gln Thr Leu Val
 225 230 235 240
 Arg Lys Thr Gly Arg Met Leu Phe Asn Ala Lys Glu Gly Ala Gln Cys
 245 250 255
 Val Gly Ala Thr Leu Arg Ser Ser Val Ile Gly Phe Phe Val Gly Ile
 260 265 270
 Leu Pro Gly Ala Gly Ala Thr Ile Ala Ser Ala Ile Thr Tyr Met Thr
 275 280 285
 Glu Lys Lys Leu Ser Gly Asn Ser Asp Ser Phe Gly Lys Gly Asp Ile
 290 295 300
 Arg Gly Val Ala Ala Pro Glu Ala Ala Asn Asn Ala Ser Ala Cys Gly
 305 310 315 320
 Ser Phe Ile Pro Met Leu Thr Leu Gly Val Pro Gly Ser Gly Thr Thr
 325 330 335
 Ala Val Met Met Gly Ala Leu Thr Leu Tyr Asn Ile Thr Pro Gly Pro
 340 345 350
 Ala Met Phe Thr Glu Gln Pro Asp Ile Val Trp Gly Leu Ile Ala Ala
 355 360 365
 Leu Leu Ile Ala Asn Val Met Leu Leu Val Met Asn Ile Pro Leu Ile
 370 375 380
 Gly Leu Phe Thr Arg Met Leu Thr Ile Pro Leu Trp Phe Leu Val Pro
 385 390 395 400
 Ala Ile Ala Ala Val Ser Ala Val Gly Val Tyr Ala Val His Ser Thr
 405 410 415
 Thr Phe Asp Leu Val Leu Met Val Leu Leu Gly Val Leu Gly Tyr Ile
 420 425 430
 Leu Arg Lys Met His Phe Pro Met Ser Pro Leu Ile Leu Gly Phe Val
 435 440 445
 Leu Gly Glu Met Leu Glu Gln Asn Leu Arg Arg Ala Leu Ser Ile Ser
 450 455 460
 Asn Gly Asn Met Gly Ile Leu Trp Glu Ser Ser Val Thr Lys Ile Leu
 465 470 475 480
 Leu Ala Met Ala Ile Met Val Ile Val Val Pro Pro Val Leu Arg Trp
 485 490 495
 Ile Arg Arg Arg Gln His Lys Pro Gln Pro Asp Ile Gly
 500 505 510

<210> 9793

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 9793

Ala Gly Arg Arg Val Thr Ala Arg Ser Val Arg Cys Gly Val Asp Leu
 1 5 10 15
 Ala Thr Gly Ser Cys Val Ser Pro Ser Trp Gly Ser Ser Arg Tyr Thr
 20 25 30
 Lys Pro Leu Pro Ile Arg Gln Arg Ala Asp Cys Val Met Glu Leu Ile
 35 40 45
 Phe Leu Gly Thr Ser Ala Gly Val Pro Thr Arg Ser Arg Asn Val Thr
 50 55 60
 Ala Ile Leu Leu Asp Leu Lys His Pro Thr Arg Gly Gly Leu Trp Leu
 65 70 75 80
 Phe Asp Cys Gly Glu Gly Thr Gln His Gln Met Leu His Thr Ser Tyr
 85 90 95
 His Pro Gly Lys Val Asp Lys Ile Phe Ile Thr His Leu His Gly Asp
 100 105 110
 His Leu Phe Gly Leu Pro Gly Leu Leu Cys Ser Arg Ser Met Ala Gly
 115 120 125
 Asn Ala Asn Pro Leu Thr Ile Tyr Gly Pro Ala Gly Ile Gln Glu Phe
 130 135 140
 Val Glu Thr Thr Leu Arg Leu Ser Gly Ser Trp Thr Asp Tyr Pro Leu
 145 150 155 160
 Glu Val Val Glu Ile Gly Glu Gly Leu Val Phe Asp Asp Gly Asp Tyr
 165 170 175
 Gln Val Arg Ala Tyr Pro Leu Asn His Pro Val Glu Cys Tyr Gly Tyr
 180 185 190
 Arg Val Glu Glu His Asp Lys Pro Gly Ala Leu Asn Ala Ala Leu
 195 200 205
 Gln Ala Asp Gly Val Lys Pro Gly Pro Leu Phe Gln Arg Leu Lys His
 210 215 220
 Gly Glu Thr Val Thr Leu Glu Asp Gly Arg Val Ile Asn Gly Gln Asp
 225 230 235 240
 Tyr Leu Ala Pro Pro Gln Pro Gly Lys Lys Leu Ala Ile Phe Gly Asp
 245 250 255
 Thr Ala Pro Cys Pro Ser Ala Leu Arg Leu Ala Gly Gly Val Asp Val
 260 265 270
 Met Val His Glu Ala Thr Leu Glu Ala Ala Met Glu Glu Lys Ala Asn
 275 280 285
 Ser Arg Gly His Ser Ser Thr Arg Gln Ala Ala Gln Leu Ala Arg Glu
 290 295 300
 Ala Gly Val Arg Lys Leu Ile Val Thr His Val Ser Ser Arg Tyr Asp
 305 310 315 320
 Val Arg Gly Ala Glu Ser Leu Leu Ala Glu Cys Arg Glu Val Phe Pro
 325 330 335
 Ala Cys Glu Leu Ala Glu Asp Phe Ala Gln Val Ser Val
 340 345 350

<210> 9794

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 9794

Gly Val Lys Ala Pro Met Asn Ala Glu Lys Ser Pro Val Ala His Asn
 1 5 10 15
 Val Asp His Glu Glu Ile Ala Lys Phe Glu Ala Val Ala Ser Arg Trp
 20 25 30

Trp Asp Leu Glu Gly Glu Phe Lys Pro Leu His Arg Ile Asn Pro Leu
 35 40 45
 Arg Leu Gly Tyr Ile Ala Glu Arg Ser Gly Gly Leu Phe Gly Lys Lys
 50 55 60
 Val Leu Asp Val Gly Cys Gly Gly Ile Leu Ala Glu Ser Met Ala
 65 70 75 80
 Arg Glu Gly Ala Thr Val Thr Gly Leu Asp Met Gly Phe Glu Pro Leu
 85 90 95
 Gln Val Ala Arg Leu His Ala Leu Glu Ser Gly Ile Gln Val Glu Tyr
 100 105 110
 Val Gln Glu Thr Val Glu Glu His Ala Lys His Ala His Gln Tyr
 115 120 125
 Asp Val Val Thr Cys Met Glu Met Leu Glu His Val Pro Asp Pro Gln
 130 135 140
 Ser Val Val Ser Ala Cys Ala Asn Leu Val Lys Pro Gly Gly Gln Val
 145 150 155 160
 Phe Phe Ser Thr Ile Asn Arg Asn Gly Lys Ala Trp Leu Met Ala Val
 165 170 175
 Val Gly Ala Glu Tyr Val Leu Arg Met Val Pro Lys Gly Thr His Asp
 180 185 190
 Val Lys Lys Phe Ile Lys Pro Ala Glu Leu Leu Gly Trp Val Asp Gln
 195 200 205
 Thr Trp Leu Lys Glu Gln His Met Thr Gly Leu His Tyr Asn Pro Leu
 210 215 220
 Thr Asp Lys Phe Lys Leu Ala Pro Gly Val Asp Val Asn Tyr Met Leu
 225 230 235 240
 His Thr Thr Ala Lys Asn Asp
 245

<210> 9795

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 9795

Lys Pro Leu Thr Ser Trp Arg Lys Ser Lys Ala Arg Ala Arg Gly Ser
 1 5 10 15
 Thr Lys Pro Leu Thr Arg Lys Ala Phe Cys Arg Ser Thr Pro Ile Lys
 20 25 30
 Lys Thr Trp Met Arg Ser Ser Ala Ser Arg Cys Thr Ser Thr Gly Lys
 35 40 45
 Ala Cys Ala Ser Pro Leu Lys Leu Thr Ala Cys Val Thr Pro Arg Ser
 50 55 60
 Leu Pro
 65

<210> 9796

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 9796

Cys Arg Pro Arg Pro Leu Arg Arg Ser Pro Thr Pro Leu Thr Val Leu
 1 5 10 15
 Ser His Arg Ala Gly Thr Ser Ala Leu Lys Arg Arg Lys Thr Ala Cys
 20 25 30
 Cys Val Arg Trp Tyr Arg Ile Thr Lys Arg Trp Val Thr Thr Ser
 35 40 45
 Cys Cys Gly Lys Cys Gln Thr Thr Thr Ala Thr Ser Asn Trp Trp Val
 50 55 60
 Ser Cys Arg Ser Leu Ser Thr Ser Arg Ser Leu Pro Ile Leu Thr Thr

65 70 75 80
 Thr Arg Arg Ala Ser Arg Pro Ala Arg Tyr Arg Cys Ser Ser Cys
 85 90 95

<210> 9797

<211> 553

<212> PRT

<213> Enterobacter cloacae

<400> 9797

Met Leu Lys Asn Glu His Arg Gly Lys Ala Met Thr Ile His Asp Pro
 1 5 10 15
 Arg Tyr Ser Asp Val Ile Ile Ile Gly Gly Ala Thr Gly Ala Gly
 20 25 30
 Ile Ala Arg Asp Cys Ala Leu Arg Gly Leu Ser Val Thr Leu Leu Glu
 35 40 45
 Arg His Asp Ile Ala Thr Gly Ala Thr Gly Arg Asn His Gly Leu Leu
 50 55 60
 His Ser Gly Ala Arg Tyr Ala Val Thr Asp Gly Glu Ser Ala Arg Glu
 65 70 75 80
 Cys Ile Ala Glu Asn Gln Ile Leu Lys Arg Ile Ala Arg His Cys Ile
 85 90 95
 Glu Pro Thr Asp Gly Leu Phe Ile Thr Leu Pro Glu Asp Asp Leu Ala
 100 105 110
 Phe Gln Ser Thr Phe Ile Thr Ala Cys Thr Ala Ala Gly Ile Gln Ala
 115 120 125
 Glu Ala Met Asp Pro Ala Leu Ala Arg Arg Leu Glu Pro Ser Val Asn
 130 135 140
 Pro Thr Leu Ile Gly Ala Val Lys Val Pro Asp Gly Thr Val Asp Pro
 145 150 155 160
 Phe Arg Leu Thr Ala Ala Asn Met Leu Asp Ala Arg Glu His Gly Ala
 165 170 175
 Gln Ile Leu Thr Gly His His Val Thr Gly Leu Ile Arg Glu Gly Asn
 180 185 190
 Thr Val Arg Gly Val Arg Val Phe Asp Ala Gln Tyr Asn Glu His Arg
 195 200 205
 Glu Leu Tyr Ala Ala Val Val Val Asn Ala Ala Gly Ile Trp Gly Gln
 210 215 220
 Arg Ile Ala Glu Tyr Ala Asp Leu Ser Val Arg Met Phe Pro Ala Lys
 225 230 235 240
 Gly Ser Leu Leu Ile Leu Asp His Arg Ile Asn Asn His Val Ile Asn
 245 250 255
 Arg Cys Arg Lys Pro Ser Asp Ala Asp Ile Leu Val Pro Gly Asp Thr
 260 265 270
 Ile Ser Leu Ile Gly Thr Thr Ser Met His Val Asp Tyr Ser Glu Ile
 275 280 285
 Asp Tyr Asn Arg Val Thr Ala Glu Glu Val Asp Ile Leu Leu Arg Glu
 290 295 300
 Gly Glu Lys Leu Ala Pro Val Met Ala Gln Thr Arg Ile Leu Arg Ala
 305 310 315 320
 Tyr Ala Gly Val Arg Pro Leu Val Ala Ser Asp Asn Asp Pro Ser Gly
 325 330 335
 Arg Asn Val Ser Arg Gly Ile Val Leu Leu Asp His Ala Glu Arg Asp
 340 345 350
 Gly Met Asp Gly Phe Ile Thr Ile Thr Gly Gly Lys Leu Met Thr Tyr
 355 360 365
 Arg Leu Met Ala Gln Trp Ala Thr Asp Ala Val Cys Arg Lys Leu Gly
 370 375 380
 Asn Thr Ala Pro Cys Val Thr Ala Glu Gln Ala Leu Pro Gly Ser Gln
 385 390 395 400
 Gln Ser Thr Glu Lys Thr Leu His Lys Ile Ile Ser Leu Pro Ala Pro

405 410 415
 Leu Arg Gly Ser Ala Ile Tyr Arg His Gly Asp Arg Thr Pro Thr Trp
 420 425 430
 Leu Gly Glu Gly Arg Leu Ser Arg Ser Leu Val Cys Glu Cys Glu Ala
 435 440 445
 Val Thr Ala Gly Glu Val Gln Tyr Ala Val Glu Asn Leu Thr Val Asn
 450 455 460
 Asn Leu Leu Asp Leu Arg Arg Arg Thr Arg Val Gly Met Gly Thr Cys
 465 470 475 480
 Gln Gly Glu Leu Cys Ala Cys Arg Ala Ala Gly Leu Leu Gln Arg Phe
 485 490 495
 His Ala Thr Thr Ser Thr Gln Ser Leu Ala Gln Leu Ser Asp Phe Leu
 500 505 510
 Asn Glu Arg Trp Lys Gly Ile Gln Pro Val Ala Trp Gly Asp Ala Leu
 515 520 525
 Arg Glu Ser Glu Phe Thr Arg Trp Val Tyr Gln Gly Leu Cys Gly Leu
 530 535 540
 Glu Lys Glu His Asn His Glu Ile
 545 550

<210> 9798

<211> 440

<212> PRT

<213> Enterobacter cloacae

<400> 9798

Lys Ser Leu Arg His Arg Leu Gly Ser Gly Arg Val Arg Ser Arg Gly
 1 5 10 15
 Ala Gly Leu Arg Trp Arg Arg Leu Arg Arg His Arg Ala Ala Cys Arg
 20 25 30
 Gly Ala Asp Tyr Pro Ala Gln Gly Glu Ser Thr Met Asn Asp Thr Arg
 35 40 45
 Phe Glu Ser Cys Ile Lys Cys Thr Val Cys Thr Thr Val Cys Pro Val
 50 55 60
 Ser Gly Val Asp Pro Arg Tyr Pro Gly Pro Lys Gln Ala Gly Pro Asp
 65 70 75 80
 Gly Glu Arg Leu Arg Leu Lys Asp Gly Ala Leu Tyr Asp Glu Ala Leu
 85 90 95
 Lys Tyr Cys Ile Asn Cys Lys Arg Cys Glu Val Ala Cys Pro Ser Asp
 100 105 110
 Val Lys Ile Gly Asp Ile Ile Gln Arg Ala Arg Ala Arg Tyr Ser Thr
 115 120 125
 Gln Lys Pro Thr Leu Arg Asp Ala Ile Leu Ser His Thr Asp Leu Met
 130 135 140
 Gly Ser Leu Ser Thr Pro Phe Ala Pro Val Val Asn Ala Ala Thr Ala
 145 150 155 160
 Leu Lys Pro Val Arg Arg Leu Leu Asp Ala Thr Leu Lys Ile Asp His
 165 170 175
 His Arg Ser Leu Pro Lys Tyr Ser His Gly Thr Phe Arg Arg Trp Tyr
 180 185 190
 Lys Ser Val Ala Ala Glu Gln Ala Gln Phe Ala Glu Gln Val Ala Phe
 195 200 205
 Phe His Gly Cys Tyr Val Asn Tyr Asn His Pro Gln Leu Gly Lys Asp
 210 215 220
 Leu Leu Lys Val Leu Asn Ala Met Gly Thr Gly Val Gln Leu Leu Ser
 225 230 235 240
 Lys Glu Lys Cys Cys Gly Val Pro Leu Ile Ala Asn Gly Phe Ile Asp
 245 250 255
 Lys Ala Arg Lys Gln Ala Ser Ser Asn Val Thr Ser Leu Arg Glu Ala
 260 265 270
 Ile Val Asp Lys Gly Ile Pro Val Leu Ala Thr Ser Ser Thr Cys Thr

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      275              280              285
Phe Thr Leu Arg Asp Glu Tyr Pro His Leu Leu Asp Val Asp Asn Thr
290              295              300
Gly Leu Arg Glu His Ile Glu Leu Ala Thr Arg Phe Leu Trp Arg Lys
305              310              315              320
Leu Asp Ser Gly Gln Thr Leu Pro Leu Gly Lys Leu Pro Leu Lys Val
              325              330              335
Val Tyr His Thr Pro Cys His Met Glu Lys Met Gly Trp Ser Ile Tyr
              340              345              350
Thr Leu Glu Leu Leu Arg Leu Ile Pro Gly Leu Glu Leu Thr Val Leu
355              360              365
Asp Ser Arg Cys Cys Gly Ile Ala Gly Thr Tyr Gly Phe Lys Arg Glu
370              375              380
Asn Tyr Pro Thr Ser Gln Ala Ile Gly Ala Pro Leu Phe Arg Gln Ile
385              390              395              400
Glu Glu Ser Gly Ala Asp Ile Val Val Thr Asp Cys Glu Thr Cys Lys
              405              410              415
Trp Gln Ile Glu Met Ser Thr Ser Lys Arg Cys Glu His Pro Ile Thr
              420              425              430
Leu Leu Ala Lys Ala Leu Ala
435              440

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<210> 9799

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 9799

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Lys Ala Ser Ile Ser Leu Glu Gly Arg Met Asp Asn Phe Gln Lys Asp
1              5              10              15
Ile Asp Asp Arg Ala Asn Leu Thr Leu Ser Asn Arg Phe Glu Leu Leu
20              25              30
Leu Phe Arg Leu Gly Thr Ser Leu Asn Glu Asn Lys Ser Glu Leu Phe
35              40              45
Gly Ile Asn Val Phe Lys Leu Arg Glu Ile Val Pro Met Pro Thr Phe
50              55              60
Thr Lys Pro Ala Gly Met Lys Ser Pro Leu Met Gly Met Val Asn Ile
65              70              75              80
Arg Asp Gln Val Ile Pro Val Ile Asp Leu Ala Ala Val Ala Gly Cys
85              90              95
Lys Pro Ala Thr Gly Leu Asn Ile Leu Leu Ile Thr Glu Tyr Ala Arg
100              105              110
Ser Val Gln Ala Phe Ala Val Glu Ser Val Glu Asn Ile Met Arg Leu
115              120              125
Asp Trp Lys Gln Val His Ala Ala Glu Thr Ala Val Ser Gly Arg Tyr
130              135              140
Ile Thr Ser Ile Ala Cys Leu Asp Glu Lys Thr Asp Thr Asn Asp Leu
145              150              155              160
Ala Met Val Leu Asp Val Glu Gln Ile Leu Tyr Asp Ile Thr Pro Ala
165              170              175
Asn His Asp Leu His Ala Thr His Leu Glu Thr Thr Lys Phe Asn Ile
180              185              190
Lys Pro Gly Ser Val Ala Ile Val Ala Glu Asp Ser Lys Val Ala Arg
195              200              205
Ser Met Leu Glu Lys Gly Leu Gln Ala Met Glu Ile Pro Ala Gln Leu
210              215              220
His Ile Thr Gly Lys Asp Ala Trp Glu Lys Ile Thr Gln Leu Ala Ala
225              230              235              240
Gln Ala Gln Ala Glu Gly Val Pro Val Thr Asp Lys Ile Ala Leu Val
245              250              255
Leu Thr Asp Leu Glu Met Pro Glu Met Asp Gly Phe Thr Leu Thr Arg

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260 265 270
 Lys Ile Lys Thr Asp Pro Val Leu Lys Asp Ile Pro Val Val Ile His
 275 280 285
 Ser Ser Leu Ser Gly Asn Ala Asn Glu Asp His Ile Arg Lys Val Lys
 290 295 300
 Ala Asp Gly Tyr Val Ala Lys Phe Glu Leu Asn Glu Leu Ser Ser Val
 305 310 315 320
 Ile Glu Glu Val Leu Asp Arg Ser Met Lys Lys Ile Glu Gly Pro Leu
 325 330 335
 Ile Ser Arg Lys Gln Leu Ala
 340

<210> 9800

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 9800

Tyr Val Ser Trp Asn Asn Trp Gly Ala Ser Cys Ile Thr Pro Asp Glu
 1 5 10 15
 Arg Phe Ala Ser Gln Glu Phe Asp Leu Phe Leu Thr Asp Asn Pro Ser
 20 25 30
 Asn Leu Thr Ala Ser Gly Leu Leu Ser Asp Asp Glu Pro Gly Val
 35 40 45
 Arg Lys Ile Gly Pro Gly Gln Leu Arg Val Asn Phe Asn Met Ser Asn
 50 55 60
 Ala Met Gln Glu Ala Val Leu Gln Leu Ile Glu Glu Asn Leu Ala Gln
 65 70 75 80
 Glu Glu Ile Leu Glu Ser Pro Leu Gly Gly Asp Glu Asn Ala Glu Leu
 85 90 95
 His Ala Ser Gly Tyr Tyr Ser Leu Phe Val Asp Thr Val Pro Asp Asp
 100 105 110
 Val Lys Arg Leu Tyr Thr Glu Ser Ala Ala Gln Asp Phe Ala Ala Leu
 115 120 125
 Ala Gln Thr Ala His Arg Leu Lys Gly Val Phe Ala Met Leu Asn Leu
 130 135 140
 Val Pro Gly Lys Gln Leu Cys Glu Thr Leu Glu His Leu Ile Arg Glu
 145 150 155 160
 Lys Asp Ala Ser Gly Ile Glu Lys Tyr Ile Ser Asp Ile Asp Ala Tyr
 165 170 175
 Val Lys Ser Leu Leu
 180

<210> 9801

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 9801

Leu Gly Trp Val Phe Thr Phe Arg Arg Thr Phe Thr Val Ala Val Leu
 1 5 10 15
 Gly Asp Gly Gln Asp Cys Ala Phe Ala Thr Arg Asn Asp Gln Gly Asn
 20 25 30
 Asn Gly Val Phe Thr Arg Gln Leu Asp Thr Thr His Ala Gly Arg Arg
 35 40 45
 Thr Thr His Cys Ala His Gly Val Leu Phe Lys Ala His His Phe Thr
 50 55 60
 Gly Gly Arg Glu Glu His His Phe Ile Arg Thr Gly Arg Gln Ile His
 65 70 75 80
 Ala Asp Gln Phe Val Ala Phe Val Gln Val His Arg Asp Asn Pro Gly
 85 90 95

Arg Thr Trp Thr Ala Glu Leu Gly Gln Cys Gly Phe Leu His Gly Thr
 100 105 110
 Ala Arg Gly Arg His Lys Asp Val His Ala Leu Phe Val Leu Ala Tyr
 115 120 125
 Arg Gln Tyr Gly Gly Asp Thr Phe Val Arg Phe Gln Arg Gln Gln Val
 130 135 140
 Asp Asp Trp Thr Ser Thr Arg Ala Thr Ala Cys Phe Arg Gln Leu Ile
 145 150 155 160
 Asp Phe His Pro Val Gln Thr Ala Pro Ala Gly Glu Ala Glu Asp Arg
 165 170 175
 Val Met Gly Val Arg His Gln Gln Thr Ile Asn Glu Val Phe Phe
 180 185 190
 Asn Thr Arg Arg Arg Phe Ala Phe Thr Ala Pro Thr Leu Ser Phe Val
 195 200 205
 Val Gly Gln Arg Leu Ile Leu His Val Ala Leu Val Arg Gln Arg His
 210 215 220
 Tyr His Val Phe Ala Val Asp Gln Ile Phe Asn Val Asp Ile Arg Ala
 225 230 235 240
 Val Gly Arg Asp Phe Gly Ala Thr Leu Ile Ala Glu Leu Ile Ala Asn
 245 250 255
 Gln Leu Gln Leu Phe Thr Asp His Phe His Gln Ala Leu Cys Ala Thr
 260 265 270
 Gln Asp Met Gln Gln Leu Gly Asn Leu Leu Gln Gln Leu Phe Val Leu
 275 280 285
 Val Glu Gln Phe Phe Met Leu Lys Ala Gly Gln Phe Leu Gln Thr Gln
 290 295 300
 Ile Gln Asn Arg Leu Gly Leu Leu Phe Ser Gln Val Val Leu Thr Val
 305 310 315 320
 Thr His Ala Glu Phe Arg Leu Gln Pro Leu Arg Thr Arg Ser Val Ile
 325 330 335
 Ala Gly Thr Phe Gln His Arg Arg His Val Ala Gln Ile Pro
 340 345 350

<210> 9802

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 9802

Thr Arg Asn Gln Arg Arg Leu Arg Phe Cys Trp Arg Arg Arg Thr Ala
 1 5 10 15
 Asp Gln Leu Asp Asp Arg Val Asp Val Arg Gln Arg Asn Gly Gln Cys
 20 25 30
 Phe Lys Asp Met Gly Thr Val Ala Arg Phe Ala Gln Phe Glu Asp Gly
 35 40 45
 Thr Ala Ser His His Phe Thr Ala Val Thr His Glu Arg Ala Gln Asp
 50 55 60
 Leu Phe Gln Val His Asp Leu Arg Leu Ala Met Val Gln Arg Asn His
 65 70 75 80
 Val Asp Thr Glu Gly Asp Leu Lys Leu Ser Leu Gly Val Lys Val Val
 85 90 95
 Gln His Asn Phe Thr His Arg Val Ala Leu Asp Phe Asn His Asp Ala
 100 105 110
 His Thr Val Phe Val Arg Leu Val Thr Gln Arg Ala Asp Ala Phe Asn
 115 120 125
 Ala Phe Phe Phe Tyr Gln Leu Gly Asp Phe Phe Asn Gln Ser Arg Phe
 130 135 140
 Val His Leu Ile Arg Asp Leu Val Asn Asn Asn Gly Phe Thr Ala Gly
 145 150 155 160
 Phe Gly Val Arg Phe His Phe Gly Ala Gly Thr Asp Val Asn Leu Ala
 165 170 175

Ala Thr Gly Thr Val Arg Phe Phe Asn Thr Ala Thr Ala Ile Asp Asp
 180 185 190
 Cys Arg Arg Arg Glu Val Arg Ala Arg Asp Val Phe His Gln Pro Phe
 195 200 205
 Asn Ala Asp Val Phe Ile Val Asn Val Gly Gln Ala Ala Val Asp His
 210 215 220
 Phe Arg Asp Ile Val Arg Arg Asn Val Gly Cys His Thr Asp Gly Asp
 225 230 235 240
 Thr Gly Arg Thr Val His Gln Gln Val Trp Asp Leu Arg Trp His Asp
 245 250 255
 Val Arg Asn Phe Phe Arg Ala Val Val Ile Asn Glu Ile Asn Arg
 260 265 270
 Leu Phe Phe Gln Val Ser His Gln Leu Met Gly Asn Leu Arg Gln Thr
 275 280 285
 Asp Phe Arg Ile Thr His Cys Arg Gly Gly Val Ala Val Asp Arg Thr
 290 295 300
 Lys Val Thr Leu Thr Ile Tyr Gln His Val Thr Gln Arg Glu Gly Leu
 305 310 315 320
 Arg His Thr Asp Asn Gly Ala Val His Arg Asp Ile Thr Met Arg Met
 325 330 335
 Val Phe Thr Asp Tyr Val Thr Asn Asp Thr Gly Arg Phe Phe Val Gly
 340 345 350
 Phe Ile Pro Val Ile Ala Gln Tyr Val His Gly Val
 355 360 365

<210> 9803

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9803

Ser Gln His Arg Arg Pro Glu Arg Leu Pro Ala Leu Met Thr Arg Val
 1 5 10 15
 Thr Leu Ser Leu Ser Gly Thr Glu Val Leu Cys Gln Glu Glu His Pro
 20 25 30
 Ser Leu Leu Val Ala Leu Glu Ala His Gln Val Glu Val Glu Tyr Gln
 35 40 45
 Cys Arg Glu Gly Tyr Cys Gly Ser Cys Arg Cys Arg Leu Val Ala Gly
 50 55 60
 Gln Val Asp Trp Leu Thr Glu Pro Leu Ala Phe Ile Ser Glu Gly Glu
 65 70 75 80
 Ile Leu Pro Cys Cys Arg Ala Lys Gly Asp Ile Glu Ile Glu Met
 85 90 95

<210> 9804

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 9804

Thr Ser Ala Gly Lys Ala Phe Ser Pro Ser Pro Gly Ala Met Pro Cys
 1 5 10 15
 Ala Lys Ala Asn Leu Pro Ala Gly Ser Ile Arg Gly Phe Ala Val Trp
 20 25 30
 Arg Arg Ser Thr Thr Met Lys Phe Asp Thr Val Ile Val Gly Gly Gly
 35 40 45
 Leu Ala Gly Leu Leu Cys Gly Leu Lys Leu Thr Gln Arg Gly Leu Arg
 50 55 60
 Cys Ala Ile Val Thr Arg Gly Gln Ser Ala Leu His Phe Ser Ser Gly

65 70 75 80
 Ser Leu Asp Leu Leu Gly Ala Leu Ser Phe Ala Asp Leu Pro Pro Glu
 85 90 95
 His Pro Tyr Arg Leu Thr Gly Ala Glu Asn Met Ala Arg Phe Ala Cys
 100 105 110
 Glu Thr Glu His Leu Leu Thr Ala Cys Gly Ala Arg Met Gln Gly Asp
 115 120 125
 Ala Glu Gln Asn His Gln Arg Val Thr Pro Leu Gly Thr Leu Arg Ala
 130 135 140
 Ala Trp Leu Ser Pro Glu Glu Val Pro Val Ala Pro Ile Ala Ala Glu
 145 150 155 160
 Arg Val Arg Val Val Gly Ile Ser Gly Phe Leu Asp Phe Gln Pro His
 165 170 175
 Leu Ala Ala Ala Ser Leu Arg Gln Gln Gly Val Gln Val Asp Thr Ala
 180 185 190
 Glu Ile Asp Leu Pro Glu Leu Asp Val Leu Arg Glu Asn Pro Ser Glu
 195 200 205
 Phe Arg Ala Val Asn Ile Ala Arg Leu Leu Asp Asn Glu Ser Tyr Trp
 210 215 220
 Pro Gln Leu Tyr Ala Ala Leu Gln Pro Leu Gly Glu Thr Cys Asp Ala
 225 230 235 240
 Leu Phe Met Pro Ala Cys Phe Gly Leu Thr Asp Asn Arg Leu Trp Arg
 245 250 255
 Trp Leu Ser Ala Arg Leu Pro Cys Thr Leu Gly Leu Leu Pro Thr Leu
 260 265 270
 Pro Pro Ser Val Pro Gly Ile Arg Leu His Thr Gln Leu Gln Arg Gln
 275 280 285
 Phe Val Ala Gln Gly Gly Val Trp Met Ala Gly Asp Glu Val Lys Lys
 290 295 300
 Ile Thr Leu Val Glu Gly Ala Val Ser Asp Ile Trp Thr Arg Asn His
 305 310 315 320
 Gly Asp Ile Pro Leu Arg Ala Arg Tyr Thr Val Leu Ala Ser Gly Ser
 325 330 335
 Phe Phe Ser Asn Gly Leu Leu Ser Ser Arg Asp Gly Val Arg Glu Ala
 340 345 350
 Ile Leu Gly Leu Asp Val Arg Gln Ser Ala Ser Arg Ala Asp Trp Tyr
 355 360 365
 Gln Ser Asp Phe Phe Thr Pro Gln Pro Trp Gln Gln Phe Gly Val Ile
 370 375 380
 Val Asp Ser Gln Leu Arg Pro Arg Leu Gly Gly Glu Pro Val Glu Asn
 385 390 395 400
 Leu Tyr Ala Ile Gly Ser Val Leu Gly Gly Tyr Asp Pro Val Ala Gln
 405 410 415
 Gly Cys Gly Gly Gly Val Cys Ala Val Thr Ala Leu His Val Ala Glu
 420 425 430
 Gln Ile Ile Gln Arg Arg Glu Arg Ala Gln
 435 440

<210> 9805

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 9805

Thr Met Lys Lys Gln Leu Leu Ser Thr Leu Ala Ala Ser Val Leu Leu
 1 5 10 15
 Leu Ser Ala Ser Val Val Gln Ala Gln Asp Ala Pro Ser Arg Thr Glu
 20 25 30
 Cys Ile Ala Pro Ala Lys Pro Gly Gly Gly Phe Asp Leu Thr Cys Lys
 35 40 45
 Leu Ile Gln Val Ser Leu Leu Glu Thr Lys Ala Ile Glu Lys Pro Met

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      50      55      60
Arg Val Thr Tyr Met Pro Gly Gly Val Gly Ala Val Ala Tyr Asn Ala
65      70      75      80
Ile Val Ala Gln Arg Pro Ala Glu Ala Gly Thr Val Val Ala Phe Ser
      85      90      95
Gly Gly Ser Leu Leu Asn Leu Ser Gln Gly Lys Phe Gly Arg Tyr Asp
      100      105      110
Val Asn Asp Val Arg Trp Leu Ala Thr Val Gly Thr Asp Tyr Gly Met
      115      120      125
Ile Ala Val Arg Ala Asp Ser Pro Trp Lys Ser Leu Lys Asp Leu Leu
      130      135      140
Thr Ala Met Glu Lys Asp Pro Asn Ser Val Val Ile Gly Ala Gly Ala
      145      150      155      160
Ser Ile Gly Ser Gln Asp Trp Met Lys Ala Ala Leu Leu Ala Gln Gln
      165      170      175
Ala Lys Val Asp Pro His Lys Met Arg Tyr Val Ala Phe Glu Gly Gly
      180      185      190
Gly Glu Pro Val Thr Ala Leu Met Gly Asn His Val Gln Ala Val Ser
      195      200      205
Gly Asp Leu Ser Glu Met Val Pro Tyr Leu Ser Gly Asp Lys Ile Arg
      210      215      220
Val Leu Ala Val Phe Ser Glu Asn Arg Leu Pro Gly Gln Leu Ala Asp
      225      230      235      240
Val Pro Thr Ala Lys Glu Gln Gly Tyr Asn Leu Val Trp Pro Ile Ile
      245      250      255
Arg Gly Phe Phe Val Gly Pro Lys Val Thr Asp Ala Glu Tyr Gln Trp
      260      265      270
Trp Val Asp Thr Phe Ala Lys Leu Gln Gln Thr Glu Glu Phe Lys Lys
      275      280      285
Gln Arg Asp Leu Arg Gly Leu Phe Glu Phe Asn Leu Asn Gly Lys Gln
      290      295      300
Leu Asp Glu Tyr Val Lys Lys Gln Val Asn Asp Tyr Arg Val Gln Ala
      305      310      315      320
Lys Ala Phe Gly Leu Ala Lys
      325

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<210> 9806

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 9806

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Arg Tyr Gln Asp Ser Arg Gln Arg Arg Lys Gly Arg Val Lys Lys Val
1      5      10      15
Ser Glu Val Leu His Trp Thr Pro Asp His Ala Glu His Lys Gly Lys
      20      25      30
Met Met Lys Ser Asp Tyr Ala Lys Gln Ile Glu Leu Ile Ser Gly Pro
      35      40      45
Leu Glu Ala Ala Met Glu Ala Leu Ala Gly Thr Leu Ser Ala Asn Gln
      50      55      60
Glu Ile Val Leu His Asn Leu Thr Thr Pro Glu Gln Ser Val Val Lys
      65      70      75      80
Ile Ile Asn Gly His Val Ser Gly Arg Lys Ala Gly Asp Asn Leu Leu
      85      90      95
Ser Gly Pro Glu Lys Asp Lys Gly Phe Ala Leu Leu Leu Lys Asn Asn
      100      105      110
Lys Asp Ser Thr Pro Val Thr Val Lys Asn Tyr Lys Thr Thr Thr Ala
      115      120      125
Ser Gly Arg Ile Leu Asn Ser Ala Ser Thr Ile Tyr Tyr Ser Glu Glu
      130      135      140
Gly Val Pro Leu Met Ala Phe Cys Ile Asn Ile Asp Thr Ser Pro Tyr

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145          150          155          160
Glu Gln Met Arg Lys Cys Leu Asp Ala Ile Thr Gly Ser Pro Leu Ala
          165          170          175
Asp Ser Asp Pro Gln Asp Met Asn Leu Gly Gly Ile Ile Glu Gln Ser
          180          185          190
Ile Gln Glu Ile Ile Asp Lys His Ser Val Pro Gly Lys Lys Val Gln
          195          200          205
Lys Ala Gln Arg Leu Lys Ile Val Ala Glu Met His Ala Lys Gly Ile
          210          215          220
Phe Lys Met Arg Gly Gly Val Gln His Ala Ala Gln Ala Leu Gly Val
225          230          235
Thr Arg Tyr Thr Val Tyr Asn Asp Leu Glu Val Met Gly Glu Lys
          245          250          255

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<210> 9807

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 9807

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Asp Leu Leu Met Thr Leu Thr Lys Ser Phe Ala Ala Leu Met Val Ala
1          5          10          15
Val Ser Ile Glu Val Ile Ala Thr Thr Leu Leu Ser Leu Ser Asn Ser
          20          25          30
Phe Gln Arg Pro Val Val Gly Leu Ser Ala Ile Ile Ser Tyr Gly Leu
          35          40          45
Ser Tyr Tyr Phe Leu Ser Ile Ala Leu Arg Arg Ile His Leu Gly Val
          50          55          60
Ala Tyr Ala Ile Trp Ser Ala Val Gly Leu Phe Ser Met Thr Val Ile
65          70          75          80
Gln Thr Arg Phe Phe Asp Tyr Ile Val Ser Gln Arg Ala Trp Met Gly
          85          90          95
Leu Gly Met Val Ile Ala Gly Thr Ile Thr Leu Asn Leu Ala Ile Lys
          100          105          110
Gln Asn Lys
          115

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<210> 9808

<211> 821

<212> PRT

<213> Enterobacter cloacae

<400> 9808

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Lys Ala Ala Phe Trp Lys Arg Ser Glu Leu Ala Ala Ser Ser Pro Gly
1          5          10          15
Trp Arg Ser Ser Pro Phe Asn Arg Arg Asn Gly Met Thr Thr Glu Met
          20          25          30
Leu Ser Leu Arg Val Val Gln Leu Arg Glu Ala Tyr Leu Gln Ala Lys
          35          40          45
Pro Phe Val Ser Ala His Arg Ala Val Ser Val Thr Gln Val Tyr Lys
          50          55          60
Asp Asn Pro Gly Met Asn Asn Ser Leu Leu Arg Ala Leu Ala Phe Arg
65          70          75          80
Arg Ala Cys Glu Thr Ala Pro Leu His Val Ala Gln Asn Glu Leu Ile
          85          90          95
Val Ser His Pro Ala Gly Gly Ala Arg Gly Gly Glu Val Ser Pro Glu
          100          105          110
Ile Ser Trp Arg Trp Leu Ala Asp Glu Leu Glu Thr Leu Pro Ala Arg
          115          120          125
Ala Gln Asp Pro Tyr Gln Ile Asp Glu Glu Thr Lys Arg Leu Leu Arg
          130          135          140

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Glu Glu Val Phe Pro Tyr Trp Gln Gly Arg Ser Leu Asp Glu Met Ala
 145 150 160
 Gln Thr Gln Leu Lys Thr His Gly Leu Trp His Trp Cys His Asp Asp
 165 170 175
 Gly Ile Cys Asp Val Thr Ile Lys Thr Gln Asn Gly Gly Gly Asp Ser
 180 185 190
 Cys Pro Gly Tyr Asp Asn Ile Leu Leu Thr Lys Gly Ile Lys Gly Ile
 195 200 205
 Arg Glu Glu Ala Ala Ala Leu Leu Leu Ala Leu Asp Pro Ala Thr Pro
 210 215 220
 Glu Gly Cys Asp Ala Phe Asn Phe Tyr Thr Ala Met Leu His Thr Cys
 225 230 235 240
 Asp Gly Val Val Thr Tyr Ala Arg Arg Tyr Ala His Tyr Leu Asn Ala
 245 250 255
 Leu Ala Glu Lys Glu Gly Asp Pro Leu Arg Arg Asp Glu Leu Leu Gln
 260 265 270
 Leu Ser Gly Ile Cys Ser Arg Val Pro Glu Gln Pro Pro Gln His Phe
 275 280 285
 His Asp Ala Leu Gln Ala Ile Trp Phe Val His Ser Leu Phe Met Leu
 290 295 300
 Glu Glu Asn Gln Thr Gly Ile Ser Leu Gly Arg Val Asp Gln Tyr Leu
 305 310 315 320
 Trp Pro Leu Leu Glu Arg Asp Leu His Asp Gly Thr Leu Asn Leu Gln
 325 330 335
 Gln Ala Glu Glu Leu Leu Cys Cys Trp Leu Ile Lys Met Ala Glu Thr
 340 345 350
 Leu Trp Ile Cys Ser Glu Ser Thr Ala Met Tyr Phe Ala Gly Tyr Gln
 355 360 365
 Pro Phe Ile Asn Leu Val Val Gly Gly Gln Lys Arg Glu Gly Gly Asp
 370 375 380
 Ala Thr Asn Pro Leu Thr Leu Met Ile Met Asp Cys Ser Ala Arg Leu
 385 390 395 400
 Lys Ile Tyr Gln Pro Gly Leu Ala Val Arg Ile His Asn Gln Ser Pro
 405 410 415
 Gln Pro Phe Met Arg Lys Val Val Asp Val Val Arg Ser Gly Met Gly
 420 425 430
 Phe Pro Ala Cys His Phe Asp Asp Ala His Ile Arg Met Met Leu His
 435 440 445
 Lys Gly Phe Ser Tyr Glu Asp Ala Arg Asp Tyr Cys Leu Met Gly Cys
 450 455 460
 Val Glu Pro Gln Lys Ser Gly Lys Met Tyr Gln Trp Thr Ser Val Gly
 465 470 475 480
 Tyr Thr Thr Phe Thr Ala Ala Ile Glu Leu Ala Leu His Asn Gly Arg
 485 490 495
 Thr Gln Asn Gly Lys Gln Cys Gly Pro Ala Thr Gly Asp Val Ser Gln
 500 505 510
 Phe Ser Arg Tyr Glu Glu Val Glu Ser Ala Val Arg Thr Gln Leu Ser
 515 520 525
 Ala Ile Val Arg Lys Ala Ala Glu Ala Thr Leu Ile Val Gln Lys Leu
 530 535 540
 His Ala Glu His Ala Arg Lys Pro Leu Met Ser Cys Leu Ile Glu Gly
 545 550 555 560
 Cys Ile Ala Thr Ala Lys Asp Val Thr Gln Gly Gly Ala Arg Leu Asn
 565 570 575
 Ala Gly Pro Gly Leu Ile Trp Thr Gly Leu Ala Asp Cys Val Asn Ser
 580 585 590
 Leu Met Ala Ile Arg Thr Leu Val Phe Asp Thr Ala Arg Phe Thr Leu
 595 600 605
 Arg Gln Leu Val Glu Ala Leu Glu His Asn Phe Val Gly Tyr Gln Glu
 610 615 620
 Ile Leu Thr Ala Cys Gln Arg Ala Pro Lys Tyr Gly Asn Asp Ile Arg

625 630 635 640
 Glu Val Asp Asp Ile Ala Arg Glu Leu Val Arg Phe Leu Glu Gln Glu
 645 650 655
 His Arg Gln Tyr Arg Met Leu Tyr Ala Pro Phe Ala Phe Gly Thr Leu
 660 665 670
 Ser Ile Ser Asn Asn Thr Pro Phe Gly Leu Ile Thr Gly Ala Leu Pro
 675 680 685
 Ser Gly Arg Leu Ala Gly Lys Pro Leu Ala Asp Gly Ile Ser Pro Ala
 690 695 700
 Gln Gln Thr Asp Tyr Leu Gly Pro Thr Ala Ile Ile Asn Ser Val Ser
 705 710 715 720
 Arg Ile Asn Val Glu Glu Met Asp Ile Gly Met Val His Asn Ile Lys
 725 730 735
 Leu Met Phe Gly Met Leu Glu Thr Pro Glu Gly Gln Asn Ser Leu Ile
 740 745 750
 His Leu Leu Arg Thr Ala Ser Ile Leu Gly Asn Ala Gln Leu Gln Phe
 755 760 765
 Ser Tyr Val Asp Asp Glu Thr Leu Arg Lys Ala Gln Lys His Pro Ala
 770 775 780
 Asp Tyr Arg Asn Leu Met Ile Arg Val Ala Gly Tyr Ser Ala Phe Phe
 785 790 795 800
 Val Glu Leu Ser Lys Glu Val Gln Asp Glu Ile Ile Ser Arg Thr Thr
 805 810 815
 Gln Arg His Phe
 820

<210> 9809
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 9809
 Gly Ile Gly Ile Lys Met Lys Lys Leu Val Ala Val Ile Ser Leu Ala
 1 5 10 15
 Phe Val Thr Leu Thr Val Ala Gly Cys Ser Ser Asp Tyr Val Leu Gln
 20 25 30
 Lys Lys Asn Gly Glu Met Ile Ile Thr His Gly Lys Pro Glu Val Asp
 35 40 45
 Asp Asp Asn Gly Leu Ile Thr Tyr Glu Asp Val Ala Gly Asn Glu His
 50 55 60
 Ala Ile Asn Arg Asp Gln Ile Ile Gln Met Ile Glu Lys
 65 70 75

<210> 9810
 <211> 383
 <212> PRT
 <213> Enterobacter cloacae

<400> 9810
 Arg Glu Gly Val Ser Ala Gly Ala Glu Arg Gly Tyr Gly Leu Val Arg
 1 5 10 15
 Ser Arg Tyr Glu Val Ala Phe Pro Pro Ser Pro Ser Pro Val Gly Glu
 20 25 30
 Gly Val Val Arg Ala Tyr Phe Gln Asp Asn Asp Phe Pro Met Pro His
 35 40 45
 Leu Ser Thr Arg Val Leu Gln Gly Leu Leu Thr Leu Leu Leu Thr Leu
 50 55 60
 Phe Gly Leu Leu Leu Val Thr Phe Ala Leu Ser Ala Phe Ser Pro Val
 65 70 75 80
 Asp Arg Val Leu Gln Ile Val Gly Asp His Ala Ser Gln Ser Thr Tyr
 85 90 95

Asp Gln Val Arg His Gln Leu Gly Leu Asp Arg Pro Leu Pro Val Gln
 100 105 110
 Phe Trp His Tyr Leu Gln Asn Leu Ala His Gly Asp Leu Gly Thr Ala
 115 120 125
 Ser Ala Thr Gly Gln Pro Val Leu Gln Asp Leu Leu His Ala Phe Pro
 130 135 140
 Ala Thr Leu Glu Leu Ala Thr Leu Ala Leu Ile Ile Gly Thr Val Leu
 145 150 155 160
 Gly Val Ile Ala Gly Val Leu Cys Ala Arg Tyr Ala Gly Ser Pro Leu
 165 170 175
 Asp Leu Ala Ile Arg Thr Leu Thr Leu Gly Asn Ser Val Pro Ile
 180 185 190
 Phe Trp Leu Gly Leu Leu Met Leu Ala Leu Phe Tyr Ala Lys Leu Gln
 195 200 205
 Trp Ser Ala Gly Pro Gly Arg Leu Asp Asp Ile Trp Gln Phe Thr Val
 210 215 220
 Glu Pro Arg Thr Gly Phe Ala Leu Val Asp Thr Trp Leu Ser Gly Asp
 225 230 235 240
 Arg Glu Ala Phe Arg Asn Ala Ile Ser His Leu Val Leu Pro Val Leu
 245 250 255
 Leu Leu Ala Tyr Tyr Ser Leu Ala Ser Ile Thr Arg Leu Thr Arg Ser
 260 265 270
 Ala Cys Leu Ser Glu Met Asn Lys Glu Tyr Ile Leu Leu Ala Arg Ala
 275 280 285
 Lys Gly Ala Gly Glu Met Thr Ile Leu Leu Arg His Val Leu Pro Asn
 290 295 300
 Ile Arg Ser Thr Leu Leu Thr Val Ile Ala Leu Ala Tyr Thr Ser Met
 305 310 315 320
 Leu Glu Gly Ala Val Leu Thr Glu Thr Val Phe Ser Trp Pro Gly Ile
 325 330 335
 Gly Arg Tyr Leu Thr Thr Ala Leu Phe Ala Gly Asp Thr Thr Ala Val
 340 345 350
 Met Gly Gly Thr Leu Leu Ile Gly Val Cys Phe Val Leu Ile Asn Asn
 355 360 365
 Leu Thr Asp Leu Leu Val Arg Ala Thr Asp Pro Arg Val Arg
 370 375 380

<210> 9811

<211> 322

<212> FRT

<213> Enterobacter cloacae

<400> 9811

Leu Pro Thr Ala Cys Arg Ser Phe Leu Thr Ser Gly Gly Leu Pro Pro
 1 5 10 15
 Phe Gln Ala Gly Arg Phe Cys Leu Pro Ala Trp Pro Leu Thr Cys Trp
 20 25 30
 Ala Met Ala Cys Ala Thr Tyr Trp Ser His Ser Met Thr Glu His Arg
 35 40 45
 Val Ile Val Asp Ala Leu Asn Ile Asp Tyr Pro Ala Ala Arg Val Val
 50 55 60
 Asn Asn Leu Ser Phe Thr Leu Gly Lys Glu Arg Leu Ala Leu Val Gly
 65 70 75 80
 Glu Ser Gly Ser Gly Lys Ser Met Ser Ala Arg Ala Leu Met Gly Leu
 85 90 95
 Val Arg Lys Pro Gly Ile Val Ser Ala Lys Arg Leu Asn Val Leu Gly
 100 105 110
 Asn Asp Leu Leu Thr Leu Asn Ser Arg Arg Trp Gln Ala Leu Arg Gly
 115 120 125
 Asn Gly Ile Ala Met Val Leu Gln Asp Pro Arg Tyr Ala Leu Asn Pro
 130 135 140

Val Lys Thr Val Ala Ala Gln Leu Asp Glu Ala Leu Thr Leu His Gln
 145 150 155 160
 Arg Leu Pro Arg Ala Glu Arg Leu Ala Arg Ile His Asp Ile Ile Arg
 165 170 175
 Ala Val Gly Leu Asn Glu His Val Leu Gln Arg Tyr Pro Gly Glu Leu
 180 185 190
 Ser Gly Gly Met Gly Gln Arg Val Met Ile Ala Ile Ala Leu Val Asn
 195 200 205
 Asn Pro Gln Val Leu Ile Ala Asp Glu Pro Thr Ser Ala Leu Asp Ala
 210 215 220
 Arg Leu Arg Asn Gln Ile Leu Glu Leu Leu Val Gln Gln Cys Glu Ala
 225 230 235 240
 Arg Gln Met Ala Met Leu Leu Ile Ser His Asp Leu Pro Leu Val Ala
 245 250 255
 Glu His Cys Asp Arg Val Leu Val Met Tyr Gln Gly Glu Asn Val Asp
 260 265 270
 Glu Met Ala Ala Ser Gln Leu Pro Gln Ala Thr His Pro Tyr Thr Arg
 275 280 285
 Thr Leu Trp Thr Cys Arg Pro Asn Ala Gly Thr Phe Gly Lys Met Leu
 290 295 300
 Pro Thr Leu Asp Arg Ser Gln Pro Trp Lys Glu Asp Asp Asn Gly Thr
 305 310 315 320
 Arg

<210> 9812

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 9812

Asp Val Phe Asp Met Glu Leu Arg Tyr Leu Arg Tyr Phe Val Ala Val
 1 5 10 15
 Ala Arg Glu Arg His Phe Thr Arg Ala Ala Lys Ala Leu Gly Ile Ser
 20 25 30
 Gln Pro Pro Leu Ser Gln Gln Ile Lys Arg Leu Glu Glu Val Gly
 35 40 45
 Thr Pro Leu Phe Arg Arg Leu Thr Arg Gly Val Glu Leu Thr Glu Ala
 50 55 60
 Gly Glu Ala Phe Tyr Glu Asp Ala Cys Lys Ile Leu Ala Leu Ser Asp
 65 70 75 80
 Ala Ala Leu Glu Lys Ala Arg Gly Ile Ala Arg Gly Leu Asn Gly Ser
 85 90 95
 Leu Ser Ile Gly Ile Thr Ser Ser Asp Ala Phe His Pro Lys Ile Phe
 100 105 110
 Ala Leu Ile Arg Gln Phe Gln Val Gln Asn Met Ala Val Gln Val His
 115 120 125
 Gln Val Glu Ala Asn Met Ser Ser Leu Thr Thr Met Leu Ala Glu Gly
 130 135 140
 Glu Leu Asp Ile Ala Phe Val Arg Leu Pro Cys Glu Ser Ser Lys Val
 145 150 155 160
 Phe Glu Leu Lys Ile Leu Asp Arg Glu Pro Met Met Val Ala Leu His
 165 170 175
 Arg Asp His Pro Leu Ala Ala Cys Gly Asp Leu Ala Leu Glu Glu Leu
 180 185 190
 Arg Asp Thr Pro Val Val Leu Phe Pro Gln Glu Val Ala Pro Gly Leu
 195 200 205
 Tyr Asp Arg Val Tyr Gly Ser Cys Glu Arg Ala Gly Ile Asp Met Gln
 210 215 220
 His Thr Leu Gln Ser Ser Gln Leu Ser Ser Ser Leu Ser Met Val Ser
 225 230 235 240

Ala Gly Gly Gly Phe Ala Leu Val Pro Lys Ser Met Ala Ala Ile Ser
 245 250 255
 Pro Pro Asn Val Thr Tyr His Ala Leu Arg Ser Pro Glu Leu Tyr Thr
 260 265 270
 Asp Ile Ala Leu Cys Trp Arg Arg Phe Glu Arg Ser Arg Thr Val Lys
 275 280 285
 Arg Phe Leu Ala Met Met Ser Glu Gly
 290 295

<210> 9813

<211> 165

<212> PRT

<213> *Enterobacter cloacae*

<400> 9813

Ala Ser Ala Ser Ser Leu Ile Ser Ser Arg Leu Asn Ile Pro Ala Arg
 1 5 10 15
 Arg Leu Ala Ser Thr Ile Ser Pro Ala Thr Ala Phe Cys Ser Ser Leu
 20 25 30
 Arg Gln Ala Thr Val Gly Lys Ser Ser Glu Ser Ser Thr Ala Gln Arg
 35 40 45
 Val Ser Arg Ser Ala Ser Thr Thr Arg Cys Ala Cys Gly Thr Ser Gly
 50 55 60
 Ser Val Arg Arg Gly Leu Ala Arg Ser Gln Thr Glu Ala Ser Gly Ser
 65 70 75 80
 Arg Trp Ala Gly Asn Gln Thr Thr Glu Gly Ser Thr Val Ala Pro Leu
 85 90 95
 Thr Lys Gly Ala Ser Trp Ala Phe Cys Ser Thr Pro Phe Cys Ser Ala
 100 105 110
 Gln Thr Thr Val Phe Ser Ser His Arg Ala Arg Ser His Pro Ala Leu
 115 120 125
 Ser Ala Phe Cys Val Val Leu Thr Ala Lys Lys Thr Arg Ser Thr Gly
 130 135 140
 Arg Val Met Thr Leu Gly Ser Val Ser Thr Gly Pro Gly Thr Thr Ile
 145 150 155 160
 Ser Pro Ser Ser
 165

<210> 9814

<211> 269

<212> PRT

<213> *Enterobacter cloacae*

<400> 9814

Trp Val Lys Asn Asn Ser Ser Arg Arg Ile Pro Phe Tyr Gln Val Asp
 1 5 10 15
 Ala Phe Ser Asp Gly Pro Phe Thr Gly Asn Pro Ala Ala Val Cys Leu
 20 25 30
 Leu Asp Ala Trp Pro Glu Gln Lys Val Leu Gln Arg Ile Ala Thr Glu
 35 40 45
 Asn Asn Leu Ser Glu Thr Ala Phe Val Val Gln Gln Asp Gly Gly Phe
 50 55 60
 Ala Leu Arg Trp Phe Thr Pro Ala Val Glu Val Asp Leu Cys Gly His
 65 70 75 80
 Ala Thr Leu Ala Ala Ala Ser Val Leu Leu Ser Arg Asp Asp Ala Cys
 85 90 95
 Glu Ser Val His Phe Phe Thr Arg Ser Gly Glu Leu Thr Val Thr Ser
 100 105 110
 His Gly Glu Gln Tyr Thr Leu Asp Phe Pro Gln Ala Ile Pro Ser Arg
 115 120 125
 Ile Thr Ala Pro Glu Gly Leu Phe Lys Ala Leu Gly Leu Glu Glu Asn

130	135	140
Ala Gly Glu Thr Trp Gln	Ala Ser Asp Leu Ile Val Val Ile Asp Asp	
145	150	155
Glu Asp Lys Leu Asp Ala Leu Lys Pro Asp Phe Thr Ala Leu Glu Arg		160
	165	170
Phe Asn Thr Arg Gly Val Val Val Thr Ala Ser Ser Arg Thr Phe Asp		175
	180	185
Phe Arg Ser Arg Trp Phe Gly Pro Gln Val Gly Val Asn Glu Asp Pro		190
	195	200
Val Thr Gly Ser Ala His Thr Phe Leu Ala Pro Leu Trp Ser Gln Lys		205
	210	215
Leu Ser Lys Lys Arg Leu His Ala Gln Gln Gly Gly Ser Arg Lys Gly		220
225	230	235
Glu Leu Ile Cys Leu Ile Lys Asp Asn Gly Arg Ile Glu Leu Leu Gly		240
	245	250
Lys Ala Ser Leu Met Ile Glu Gly Val Phe Ile Leu		255
	260	265

<210> 9815

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 9815

Ala Lys Arg Cys Arg Met Arg Leu Ser Ala Glu Arg Arg Ser Gly Ile	
1	5
Ser Glu Gln Ala Tyr Gly Trp Ile Ser Asn Ile Gln Arg Phe Ser Leu	10
	20
His Asp Gly Pro Gly Ile Arg Ser Ile Ile Phe Phe Lys Gly Cys Gln	25
	30
Met Arg Cys Ala Trp Cys Ala Asn Pro Glu Gly Gln Thr Ala Glu Arg	35
	40
Asp Val Phe Phe His Ala Asp Arg Cys Leu His Cys Gly Asn Cys Ala	45
65	50
Asp Leu Cys Pro Thr Gly Leu His Ser Met Asn His Asn Val His Val	55
	60
Leu Glu Arg Asp Arg Lys Cys Val Gly Cys Gln Leu Cys Glu Glu Arg	65
	70
Cys Pro Ala Ala Ala Leu Asn Ile Val Gly Glu His Val Ser Ala Gln	75
	80
Asn Ala Phe Glu Arg Val Met Ala Asp Glu Ile Trp Phe Arg Gln Ser	85
	90
Gly Gly Gly Val Thr Leu Ser Gly Gly Glu Val Ala Met Gln Pro Glu	95
145	100
Phe Ala Arg Val Leu Ile Glu Gln Leu Lys Ala Glu Asp Ile His Thr	105
	110
Ala Ile Glu Thr Ala Gly Tyr Ala Ser Trp His Ala Ile His Gln Ala	115
	120
Thr Ala Gly Cys Asp Leu Ile Leu Tyr Asp Leu Lys Ser Ala Glu Asp	125
	130
Val Leu His Thr Arg Phe Thr Gly Val Ser Asn Lys Arg Ile Val Arg	135
	140
Asn Leu Ala Arg Leu Leu Gln Gly Gly Gln Gln Ile Ile Ile Arg Ile	145
225	150
Pro Val Ile Pro His Phe Asn Asp Ala Pro Asp Gln Ala Asp Lys Leu	155
	160
Leu Ala Leu Ile Ser Ala Leu Thr Gln Gly Lys Lys Asn Phe Gln Gly	165
	170
Val Glu Leu Leu Pro Tyr His Leu Phe Gly Thr Gly Lys Tyr Lys Leu	175
	180
Leu Asn Met Glu Tyr Asp Trp Asn Arg Gly Ser Ala Asn Val Asp Asn	185
	190
	195
	200
	205
	210
	215
	220
	225
	230
	235
	240
	245
	250
	255
	260
	265
	270
	275
	280
	285

290 295 300
 Phe Leu Ser Met Ala His His Tyr Arg Leu Pro Leu Lys Val Ser Gly
 305 310 315 320
 Thr Leu Ala Gly
 325

<210> 9816

<211> 534

<212> PRT

<213> Enterobacter cloacae

<400> 9816

Asn Asn His Asn Ile Phe Ser Ser Gly Ile Ala Met Thr Lys Lys Leu
 1 5 10 15
 Leu Pro Leu Leu Val Leu Ala Ala Leu Ser Ser Ala Ala His Ala Ala
 20 25 30
 Thr Pro Pro Asn Thr Leu Val Val Ala Gln Gly Leu Asp Asp Ile Val
 35 40 45
 Ser Leu Asp Pro Ala Glu Ala Asn Glu Leu Ser Ser Ile Gln Thr Val
 50 55 60
 Pro Ser Leu Tyr Gln Arg Leu Val Gln Pro Asp Arg Asp Asn Pro Glu
 65 70 75 80
 Lys Ile Thr Pro Val Leu Ala Glu Ser Trp Asp Ala Asp Ala Ala Ala
 85 90 95
 Lys Thr Leu Thr Ile Lys Leu Lys Pro Asp Ala Lys Phe Ser Ser Gly
 100 105 110
 Asn Pro Leu Arg Pro Glu Asp Val Ile Phe Ser Tyr Thr Arg Ala Val
 115 120 125
 Thr Leu Asn Lys Ser Pro Ala Phe Ile Leu Asn Val Leu Gly Trp Asp
 130 135 140
 Ala Ser Asn Ile Ala Ser Gln Leu Lys Lys Val Asp Asp His Thr Leu
 145 150 155 160
 Thr Leu His Trp Thr Ala Asp Val Ser Pro Ser Val Ala Leu Asn Ile
 165 170 175
 Leu Ser Thr Pro Ile Ala Ser Ile Val Asp Glu Lys Gln Val Ala Ala
 180 185 190
 Asn Val Lys Asp Asp Asp Phe Gly Asn Ala Trp Leu Lys Met His Ser
 195 200 205
 Ala Gly Ser Gly Ala Phe Lys Met Arg Val Tyr Gln Pro His Gln Ala
 210 215 220
 Ile Val Leu Glu Ala Asn Glu Ser Ala Pro Gly Gly Ala Pro Lys Leu
 225 230 235 240
 Lys Ser Ile Ile Ile Lys Asn Val Pro Asp Pro Ala Ser Arg Arg Leu
 245 250 255
 Leu Ile Gln Gln Gly Asp Ala Asp Val Ala Arg Asp Leu Gly Ala Asp
 260 265 270
 Gln Ile Ser Ala Leu Ser Gly Lys Pro Gly Val Lys Val Leu Ser Ile
 275 280 285
 Pro Ser Ala Glu Gln Asn Tyr Leu Val Phe Asn Thr Gly Asn Ser Ala
 290 295 300
 Asn Pro Leu Leu Asn Asn Pro Ala Phe Trp Glu Ala Ser Arg Trp Leu
 305 310 315 320
 Val Asp Tyr Glu Gly Ile Thr Lys Asp Leu Leu Lys Gly Gln Tyr Phe
 325 330 335
 Val His Gln Ser Phe Leu Pro Val Gly Leu Pro Gly Ala Leu Glu Asp
 340 345 350
 Asn Pro Phe Thr Phe Asp Pro Ala Lys Ala Lys Ala Ile Leu Ala Lys
 355 360 365
 Ala Gly Ile Lys Asp Ala His Phe Thr Leu Asp Val Glu Asn Lys Pro
 370 375 380
 Pro Phe Ile Thr Ile Ala Gln Ser Met Gln Ala Ser Phe Ala Gln Gly

385 390 395 400
 Gly Val Lys Val Asp Leu Leu Pro Ala Ala Gly Ser Gln Val Tyr Ala
 405 410 415
 Arg Val Arg Ala Lys Gln His Gln Ala Ala Ile Arg Leu Trp Ile Pro
 420 425 430
 Asp Tyr Phe Asp Ala His Ser Asn Ala Ser Ala Phe Ala Trp Asn Asp
 435 440 445
 Gly Lys Ser Ser Thr Val Ala Gly Leu Asn Gly Trp Lys Ile Pro Glu
 450 455 460
 Leu Asn Lys Ala Thr Leu Ala Ala Val Ala Glu Pro Asp Pro Ala Lys
 465 470 475 480
 Arg Leu Asp Leu Tyr Lys Lys Met Gln Glu Gln Leu Gln His Asn Ser
 485 490 495
 Pro Tyr Val Phe Val Asp Gln Gly Lys Thr Gln Ile Val Val Arg Asp
 500 505 510
 Asn Val Lys Gly Tyr Gln Gln Gly Leu Asn Ala Asp Met Val Trp Tyr
 515 520 525
 Asp Arg Val Met Lys
 530

<210> 9817

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 9817

Cys Ile Arg Val Arg Thr Leu Met Lys Trp Arg Arg Ala Ser Cys Arg
 1 5 10 15
 Arg Gln Pro Ile Pro Thr Arg Ala Arg Ser Gly Pro Ala Ala Arg Thr
 20 25 30
 Pro Gly Arg Leu Ala Arg Cys Cys Arg Arg Ser Thr Val Arg Asn Arg
 35 40 45
 Gly Arg Arg Thr Thr Met Ala Leu Val Glu Val Asn Gln Leu Arg Val
 50 55 60
 Ser Phe Gly Glu Lys Thr Ala Val Ser Ala Ala Ser Phe Ala Ile Glu
 65 70 75 80
 Lys Gly Glu Thr Phe Ser Leu Ile Gly Glu Ser Gly Cys Gly Lys Ser
 85 90 95
 Thr Leu Leu Arg Val Leu Ala Gly Leu Leu Pro Glu Trp Asn Gly His
 100 105 110
 Ile Ser Val Leu Gly Glu Asn Leu Arg Pro Gly Arg Arg Phe Glu Gly
 115 120 125
 Ala Leu Arg Arg Asn Val Gln Met Val Phe Gln Asp Pro Trp Ala Ser
 130 135 140
 Leu His Pro Asn His Thr Ile Ala Arg Thr Leu Ser Glu Pro Leu Asn
 145 150 155 160
 Ile His Gly Glu Ser Gln Val Ala Glu Lys Val Ala Asp Ala Leu Gln
 165 170 175
 Gln Val Gly Leu Ala Ala Asp Ala Gly Arg Arg Tyr Pro His Gln Leu
 180 185 190
 Ser Gly Gly Gln Arg Gln Arg Val Ala Ile Ala Arg Ala Leu Leu Leu
 195 200 205
 Arg Pro Gln Leu Leu Leu Asp Glu Pro Thr Ser Ala Leu Asp Met
 210 215 220
 Ser Val Gln Ala Glu Ile Leu Asn Leu Leu Asn Arg Leu Lys Ala Gln
 225 230 235 240
 His Gly Met Thr Tyr Leu Leu Val Ser His Asp Ala Asp Val Ile Ala
 245 250 255
 His Met Ser Asp Arg Ala Ala Phe Met Ala His Gly Glu Ile Gln Arg
 260 265 270
 Val Phe Asp Arg Glu Ala Met Leu Arg Gly Glu His Arg Met Gly

275

280

285

<210> 9818

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 9818

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Arg Ser Asp Arg Ile Asp Ser Ile Lys Asp Leu His Trp Asp Ile Arg
1          5          10          15
Pro Ser Pro His Ile Ser Thr Met Gln Val Arg Ser Thr Asp Lys Pro
          20          25          30
Leu Thr Leu Asn Asn Ala Ile Asn Ile Ala Trp Leu Ile Gln Ala Thr
          35          40          45
Ser His Trp Leu Leu Thr Thr Arg Pro Tyr Lys His Gln Glu Arg Asp
          50          55          60
Phe Leu Arg Tyr Leu Phe Thr Val Phe Arg Cys Val Ala Thr Asp Arg
65          70          75          80
Trp Ile Phe Arg Arg Ala Val Met Arg Phe
          85          90

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<210> 9819

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9819

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Thr Ile Arg Ser Phe Gln Asp Phe Leu Lys Trp Ser Phe Lys Gln Met
1          5          10          15
Ala Ile Pro Ala Tyr Leu Trp Leu Lys Asp Asp Gly Gly Ala Asp Ile
          20          25          30
Lys Gly Ser Val Asp Ile Tyr Gly Arg Glu Gly Ser Ile Glu Ile Ile
          35          40          45
Ala Leu Asn His Gly Ile Met Gln Pro Thr Asp Lys His Asn Gly Lys
          50          55          60
Ala Thr Ser Leu Arg Ile His Ser Pro Tyr Ser Phe Asp Lys Glu Ile
65          70          75          80
Asp Ala Ser Ser Pro Tyr Leu Tyr Lys Ala Val Ser Thr Gly Gln Lys
          85          90          95
Leu Lys Ser Ala Glu Ile Lys Phe Tyr Arg Ile Asn Asp Ala Gly Gln
          100          105          110
Glu Val Glu Tyr Phe Ser Thr Leu Leu Glu Gly Val Lys Ile Ala Ser
          115          120          125
Val Cys Pro Met Met Leu Asp Ile Lys Asp Pro Asp Tyr Glu Lys His
          130          135          140
Asn His Leu Glu Leu Val Glu Leu Leu Tyr Glu Lys Ile Thr Trp Arg
          145          150          155          160
Tyr Val Asp Gly Asn Ile Met His Ser Asp Ser Trp Asn Asp Arg Lys
          165          170          175
Thr Ala

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<210> 9820

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 9820

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Gln Val Ser Ala Val Met Met Ala Phe Thr Val Ile Ser Phe Met Val
1          5          10          15
Arg Val Pro Val Leu Ser Glu Gln Thr Thr Val Ile Ala Pro Arg Val

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<210> 9821
<211> 221
<212> PRT
<213> Enterobacter cloacae
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His	Ser	Ala	Leu	5	Gln	Arg	Ile	Lys	Ala	Arg	Val	Ser	Ile	Arg	Ala	Phe
1	Thr	Ile	Asp	20	Arg	Lys	Asn	Leu	25	Val	Ala	Arg	Pro	Lys	Ser	Glu
Lys	Lys	Gln	Ala	35	Leu	Leu	Glu	Ala	40	Ala	Thr	Ala	Ala	Phe	Ala	Gln
Gly	Ile	Ala	Ala	50	Ser	Thr	Ala	55	Ile	Ala	Arg	Asn	Ala	Ala	Gly	Val
Glu	Gly	Thr	Leu	65	Phe	Arg	Tyr	Phe	Ala	Thr	Lys	Asp	Asp	Leu	Leu	Asn
Ala	Leu	Tyr	Leu	85	His	Leu	Lys	Gln	Asp	Leu	90	Cys	Gln	Thr	Met	Leu
Asn	Leu	Asp	Arg	100	Thr	Ile	Thr	Glu	Pro	Lys	105	Glu	His	Thr	Arg	Asn
Trp	Asn	Ser	Tyr	115	Val	Asp	Trp	Gly	Ile	Arg	Asn	Pro	Leu	Ala	His	Ala
Pro	Ile	Arg	Gln	130	Ile	Gly	Val	Ser	Glu	Lys	Leu	140	Ala	Glu	Thr	Glu
Gln	Ala	Val	Lys	145	Asp	Met	Phe	Pro	Glu	Leu	His	155	Glu	Leu	Cys	Arg
Ser	Ile	Arg	Pro	165	Val	Phe	Met	Ser	Asp	Glu	170	Phe	Lys	Thr	Phe	Gly
Ala	Met	Phe	Leu	180	Ser	Leu	Ala	Glu	Thr	185	Thr	Met	Glu	Phe	Ala	Ala
Asp	Pro	Ser	Arg	190	Ala	Val	Asp	Phe	Lys	Ala	Leu	Gly	Phe	Glu	Ala	Met

195 200 205
 Trp Arg Gly Leu Ala Glu Glu Asp Asn His Gly Gln
 210 215 220

<210> 9822
 <211> 484
 <212> PRT
 <213> Enterobacter cloacae

<400> 9822
 Arg Asn Gly Val Thr Met Asn Thr Ser Val Val Ser Pro Gly Arg Ala
 1 5 10 15
 Gly Leu Ile Leu Leu Thr Gly Gln Met Leu Pro Leu Ile Asp Thr
 20 25 30
 Ser Ile Thr Asn Val Ala Leu Asp Ser Ile Thr His Ser Leu His Ala
 35 40 45
 Thr Ala Thr Glu Leu Glu Leu Ile Val Ala Leu Tyr Gly Val Ala Phe
 50 55 60
 Ala Val Cys Leu Ala Pro Gly Ser Lys Leu Gly Asp Asn Leu Gly Arg
 65 70 75 80
 Arg Arg Leu Phe Met Trp Gly Val Ala Cys Phe Gly Leu Ala Ser Leu
 85 90 95
 Leu Cys Gly Met Ala Gly Asn Ile Glu Gln Leu Leu Gly Ala Arg Ile
 100 105 110
 Ile Gln Gly Ala Gly Ala Ala Leu Ile Met Pro Gln Ile Leu Ala Thr
 115 120 125
 Leu His Val Thr Leu Lys Gly Thr Ala His Ala Lys Ala Ile Ser Leu
 130 135 140
 Phe Gly Gly Ile Gly Gly Ile Ala Phe Ile Val Gly Gln Met Gly Gly
 145 150 155 160
 Gly Trp Leu Val Ser Ala Asp Ile Ala Gly Leu Gly Trp Arg Asn Ala
 165 170 175
 Phe Phe Ile Asn Val Pro Ile Cys Leu Val Val Leu Ala Leu Ser Arg
 180 185 190
 Arg Tyr Val Pro Glu Thr Arg Arg Asp Thr Pro Ser Arg Ile Asp Trp
 195 200 205
 Thr Gly Thr Val Leu Leu Thr Ala Ile Leu Cys Cys Leu Leu Phe Pro
 210 215 220
 Met Ala Leu Gly Pro Gln Trp His Trp Ser Trp Pro Leu Lys Ala Ala
 225 230 235 240
 Leu Leu Ala Ile Val Pro Leu Val Cys Val Met Val Leu Asn Ala Arg
 245 250 255
 Lys Lys Glu Arg Glu Asn Ala His Pro Leu Ile Ala Pro Arg Leu Leu
 260 265 270
 Gln Leu Arg Ser Ile Arg Phe Gly Val Leu Ile Gly Ile Leu Phe Phe
 275 280 285
 Ser Val Trp Ser Gly Phe Met Phe Cys Met Ala Leu Thr Met Gln Ser
 290 295 300
 Gly Leu Gly Met Ala Pro Trp Gln Ser Gly Asn Ser Phe Ile Ala Leu
 305 310 315 320
 Gly Val Thr Tyr Phe Ile Ser Ala Trp Phe Ala Pro Arg Leu Ile Ala
 325 330 335
 Arg Tyr Ser Thr Ser Ala Ile Leu Leu Thr Gly Leu Ala Ile Gln Leu
 340 345 350
 Val Gly Leu Val Ala Leu Ile Ala Thr Phe Arg His Trp Gly Met Gln
 355 360 365
 Asn Thr Ala Leu Thr Leu Ala Pro Ala Thr Gly Leu Val Gly Tyr Gly
 370 375 380
 Gln Ala Leu Ile Val Asn Ser Phe Tyr Arg Ile Gly Met Arg Asp Ile
 385 390 395 400
 Gln Pro Asp Asp Ala Gly Ala Ala Ser Ala Ile Leu Ser Thr Leu Gln

405 410 415
 Gln Ala Ala Leu Gly Leu Gly Pro Ala Ile Phe Gly Ala Ile Leu Leu
 420 425 430
 His Gly Leu Gln Asn His His Gly Asp Tyr Thr Gln Ala Val Asn Val
 435 440 445
 Phe Leu Met Val Glu Thr Ala Met Met Val Val Leu Ala Leu Ala Thr
 450 455 460
 Leu Arg Met Arg His Arg Leu Cys Leu Pro Val Val Lys Ala Cys Pro
 465 470 475 480
 Ala Thr Lys

<210> 9823

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9823

Leu Tyr Cys Ile Ala Glu Ser Met Asp Gly Ser Gly Asn Gly Tyr Arg
 1 5 10 15
 Trp Asn Asn Tyr Ala Gln Ser Gly Asp Gln Ala Lys Gln Ile Thr Pro
 20 25 30
 Lys Leu Asn Met Tyr Ile Ile Leu Asn Cys Leu Phe Trp Leu Ile Ile
 35 40 45
 Ser Val Thr Met Glu Val Thr Gly Thr Leu Leu Leu Pro Glu Thr Arg
 50 55 60
 Asn Phe Lys Asn Ile Pro Leu Thr Ile His Cys Leu Thr Cys Tyr Val
 65 70 75 80
 Ile Ser Phe Tyr Ser Leu Ser Met Leu Met Gly Tyr Ile Ser Pro Val
 85 90 95
 Met Ala Tyr Ser Ile Trp Ala Gly Leu Gly Ile Val Leu Ile Thr Val
 100 105 110
 Met Ser Ser Leu Phe Tyr Arg Leu Lys Ser Ser Ile Leu Glu Lys Ile
 115 120 125
 Gly Ile Gly Cys Ile Val Thr Gly Leu Ala Ile Ile Ala Phe
 130 135 140

<210> 9824

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 9824

Pro Tyr Arg Pro Ala Cys Ala Gly Asp Arg Ser Gln Gly Ala Leu Met
 1 5 10 15
 Pro Phe Tyr Leu Phe Leu Arg Arg Leu Arg Arg Ser Pro Ala Ala Phe
 20 25 30
 Cys Gly Leu Ile Ala Ile Ala Leu Leu Val Leu Ile Ser Leu Phe Ala
 35 40 45
 Pro Trp Leu Ala Pro Gln Asp Pro Asn Trp Gln Asp Ala Ala Ala Arg
 50 55 60
 Leu Gln Pro Pro Asn Ala Gln His Trp Leu Gly Thr Asp Ser Tyr Gly
 65 70 75 80
 Arg Asp Leu Leu Ser Arg Leu Ile Tyr Gly Thr Arg Pro Ala Leu Gly
 85 90 95
 Leu Val Ala Leu Val Thr Val Ile Thr Leu Pro Ala Gly Leu Leu Val
 100 105 110
 Gly Ile Leu Ser Gly Tyr Tyr Gly Gly Trp Met Glu Arg Ile Leu Met
 115 120 125
 Arg Phe Ser Asp Val Val Met Ser Met Pro Arg Leu Ile Leu Ala Phe
 130 135 140

Ala Phe Val Ala Met Leu Gly Pro Gly Leu Val Asn Gly Ala Leu Ala
 145 150 155 160
 Leu Ala Leu Thr Thr Trp Pro Ala Tyr Ala Arg Gln Ala Arg Ser Glu
 165 170 175
 Ile Gln Arg Leu Arg His Ser Asp Tyr Leu Ala Ala Ala Glu Met Met
 180 185 190
 Gly Ile Arg Gly Pro Arg Leu Leu Val Gly His Ile Leu Pro Leu Cys
 195 200 205
 Leu Pro Ser Ala Ile Val Arg Leu Ala Leu Asp Leu Ala Gly Ile Ile
 210 215 220
 Leu Ala Ala Ala Gly Leu Gly Phe Leu Gly Leu Gly Ala Arg Pro Pro
 225 230 235 240
 Met Ala Glu Trp Gly Ala Met Ile Ala Asp Gly Met Gln Val Ile Phe
 245 250 255
 Asp Gln Trp Trp Ile Ala Ala Ile Pro Gly Gly Ala Ile Leu Phe Ala
 260 265 270
 Ser Leu Ala Phe Asn Leu Leu Gly Asp Gly Leu Arg Asp Val Leu Glu
 275 280 285
 Pro Gln His Asp
 290

<210> 9825

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9825

Gln Thr Thr Glu Cys Ala Met Pro Leu Pro Asp Phe Lys Ser Ser Glu
 1 5 10 15
 Pro Tyr Thr Leu Gly Ile Glu Leu Glu Leu Gln Val Val Asn Pro Pro
 20 25 30
 Gly Tyr Asp Leu Ser Gln Asp Ser Ser Ala Leu Ile Ala Ala Val Lys
 35 40 45
 Asp Asp Ile Lys Gly Gly Glu Val Lys His Asp Ile Thr Glu Ser Met
 50 55 60
 Leu Glu Ile Ala Thr Gly Val Cys Gln Thr Ile Asp Gln Ala Ala Ala
 65 70 75 80
 Gln Phe Ser Val Met Gln Gln Ser Ile Leu Arg Ala Ala Ala Glu His
 85 90 95
 His Ile Gln Ile Cys Gly Gly Gly Thr His Pro Phe Gln Lys Trp Gln
 100 105 110
 Arg Gln Glu Val Cys Asp Asp Glu Arg Tyr Asn Val Thr Leu Glu Arg
 115 120 125
 Phe Gly Tyr Leu Ile Leu Gln Ala Thr Val Phe Gly Gln His Val His
 130 135 140
 Val Gly Cys Arg Thr Gly Asp Asp Ala Ile Tyr Leu Leu His Gly Leu
 145 150 155 160
 Ser Arg Phe Val Pro His Phe Ile Ala Leu Ala Ala Ala Ser Pro Tyr
 165 170 175
 Met Gln Gly Thr Asp Thr Lys Phe Ala Ser Ser Arg Leu Asn Ile Phe
 180 185 190
 Ser Gly Phe Pro Asp Asn Gly Gln Met Pro Trp Val Asn Ser Trp Gln
 195 200 205
 Glu Phe Glu Gly Leu Phe Arg Arg Leu Ser Ser Thr Ser Met Ile Asp
 210 215 220
 Ser Ile Lys Asp Leu His Trp Asp Ile Arg Pro Ser Pro His Phe Gly
 225 230 235 240
 Thr Val Glu Val Arg Val Met Asp Thr Pro Leu Thr Leu Gly His Ala
 245 250 255
 Ile Asn Ile Ala Gly Leu Ile Gln Ala Thr Ser His Trp Leu Leu Thr
 260 265 270

Ala Arg Pro Tyr Lys His Gln Glu Arg Asp Phe Leu Leu Tyr Arg Phe
 275 280 285
 Asn Arg Phe Gln Ala Cys Arg Tyr Gly Leu Glu Gly Ile Leu Thr Asp
 290 295 300
 Val His Thr Gly Glu His Lys Thr Val Ala Glu Asp Ile Ala Trp Leu
 305 310 315 320
 Leu Glu Gln Val Ala Pro Ser Ala Glu Lys Leu Gly Ala Thr Ser Ala
 325 330 335
 Ile Lys Glu Ile Ala Leu Leu Leu Lys Gln Gly Lys Ser Glu Ala Gln
 340 345 350
 Arg Met Arg Asp Phe Ile Ala Asp Gly Gly Ser Leu Ile Ser Leu Val
 355 360 365
 Gln Lys His Cys Glu Leu Trp Ala Thr Ser Pro
 370 375 380

<210> 9826

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 9826

Leu Thr Ile Asn Ile Thr Met Lys His Pro Leu Glu Ser Leu Leu Thr
 1 5 10 15
 Ala Gly Gly Ile Leu Leu Met Ala Leu Ser Cys Leu Leu Pro
 20 25 30
 Ala Pro Ser Leu Gly Leu Val Leu Ala Glu Lys Leu Val Gln Thr Phe
 35 40 45
 His Met Val Asp Leu Asn Gln Leu Tyr Thr Ile Leu Phe Cys Leu Trp
 50 55 60
 Phe Leu Val Leu Gly Ala Ile Glu Phe Phe Ile Leu Arg Phe Ile Trp
 65 70 75 80
 Arg Arg Trp Phe Ser Leu Ala Ser
 85

<210> 9827

<211> 727

<212> PRT

<213> Enterobacter cloacae

<400> 9827

Phe Tyr Gly Asp Ser Asn Gln Gly Arg Ser Ile Lys Met Phe Lys Asn
 1 5 10 15
 Asn Lys Ile Met Arg Leu Trp Leu Leu Ser Leu Ala Thr Thr Ser Val
 20 25 30
 Ala Ala Gln Ala Glu Thr Lys Glu Glu Thr Ile Thr Val Thr Gln Gly
 35 40 45
 Val Ser Glu Glu Pro Thr Ala Pro Val Lys Gly Ile Val Ala Thr Lys
 50 55 60
 Thr Leu Ser Ala Thr Lys Thr Ser Ala Glu Ile Val Lys Thr Pro Gln
 65 70 75 80
 Ser Val Ser Val Ile Thr Arg Asp Gln Met Asn Met Gln Asp Val Thr
 85 90 95
 Ser Val Ser Gln Ala Leu Arg Tyr Ser Ala Gly Val Phe Thr Glu Tyr
 100 105 110
 Arg Gly Ser Ser Asn Arg Asn Asp Glu Val Phe Val Arg Gly Phe Ser
 115 120 125
 Tyr Val Pro Lys Phe Leu Asp Gly Leu Ser Phe Gly Ala Thr Ala Ser
 130 135 140
 Ser Gln Thr Gly Thr Val Asp Pro Trp Leu Leu Glu Arg Val Glu Leu
 145 150 155 160
 Val Arg Gly Pro Ala Ser Val Leu Phe Gly Gln Val Asn Pro Gly Gly

[illegible]

Lys Asn Thr Phe Lys Val Pro Ser Val Asp Leu Tyr Asp Ala Met Leu
 660 665 670
 Arg Tyr Asp Leu Gly Glu Met Asn Arg Ser Leu Lys Gly Ala Ser Val
 675 680 685
 Gln Phe Asn Val Asn Asn Val Ala Asp Thr Lys Tyr Val Ala Ser Cys
 690 695 700
 Ala Ser Asp Thr Ala Cys Phe Tyr Gly Ile Gly Arg Thr Val Thr Ala
 705 710 715 720
 Thr Val Asn Tyr Ser Trp
 725

<210> 9828
 <211> 193
 <212> PRT
 <213> Enterobacter cloacae

<400> 9828
 Lys Thr Cys Ser Arg Asn Cys Met Asn Cys Val Val Val Arg Ser Ala
 1 5 10 15
 Arg Cys Leu Cys Leu Thr Ser Leu Arg Pro Ser Val Met Gln Cys Ser
 20 25 30
 Tyr Arg Trp Leu Lys Pro Pro Trp Ser Leu Pro Pro Ala Ile Arg Pro
 35 40 45
 Val Pro Ser Ile Leu Lys Arg Trp Ala Leu Lys Pro Cys Gly Ala Gly
 50 55 60
 Leu Leu Arg Lys Ile Thr Met Asp Ser Lys Ser Leu Gln Glu His Ala
 65 70 75 80
 Arg Arg Val Ala Leu Glu Met Pro Phe Thr Glu His Cys Trp Pro Phe
 85 90 95
 Gly Pro Glu Tyr Asp Val Phe Lys Val Gly Gly Lys Ile Phe Met Leu
 100 105 110
 Met Ala Thr Ala His Gly Arg Ala His Val Ser Leu Lys Ser Asp Pro
 115 120 125
 Glu Lys Ser Leu Leu Asn Gln Gln Ile Tyr Arg Gly Val Glu Pro Gly
 130 135 140
 Tyr His Leu Asn Lys Lys His Trp Ile Ser Leu Tyr Gly Thr Asp Asp
 145 150 155 160
 Ile Thr Pro Glu Leu Val Thr Asp Leu Ile Thr Asp Ser Trp Asn Leu
 165 170 175
 Val Val Asp Lys Leu Pro Lys Lys Asp Gln Lys Trp Ile Arg Pro Ala
 180 185 190

<210> 9829
 <211> 258
 <212> PRT
 <213> Enterobacter cloacae

<400> 9829
 Leu Phe Val Ser Asp Glu Gln Asn Lys Arg Ser Asn Arg Thr Tyr Leu
 1 5 10 15
 Phe Pro Leu Arg Ala Val Ile Cys Phe Pro Phe Thr Pro Ala Arg Gly
 20 25 30
 Arg Ile Ser Ser Pro Gly Val Val Met Asp Ile Ile Ser Val Ala Leu
 35 40 45
 Lys Arg His Ser Thr Lys Ala Phe Asp Pro Ala Lys Lys Leu Thr Ala
 50 55 60
 Glu Glu Ala Glu Lys Ile Lys Thr Leu Leu Gln Tyr Ser Pro Ser Ser
 65 70 75 80
 Thr Asn Ser Gln Pro Trp His Phe Ile Val Ala Ser Thr Glu Glu Gly


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<210> 9830
<211> 434
<212> PRT
<213> Enterobacter cloacae
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[illegible]

245 250 255
 Ile Pro Thr Trp Ala Leu Val Ser Asp Ala Phe Ile Asn Trp Ser Gly
 260 265 270
 Met Ser Ala Ser Gly Gly Arg Arg Ile Lys Arg Ser Leu Asn Ile Asp
 275 280 285
 Thr Thr Ser Ile His Phe Leu Asp Glu Gln Glu Gln Gln Lys Leu Ile
 290 295 300
 Gln Ala Lys Leu Leu Lys Pro Tyr Leu Ala Ala Arg His Glu Glu Ile
 305 310 315 320
 Asn Leu Trp Asn Gln Gln Asn Gly Glu Gly Glu Ser Val Leu Asn Leu
 325 330 335
 Arg Lys Met Thr Asn Ile Gly Thr Phe Arg Ala Tyr Leu Asn Glu Tyr
 340 345 350
 Leu Arg Asn His Pro Arg Ile Arg Lys Asp Met Thr Leu Met Val Arg
 355 360 365
 Gln Leu Ala Pro Asp Ala Asn Gly Leu Pro Ile Glu Ile Tyr Ala Phe
 370 375 380
 Thr Asn Thr Val Ile Trp Ala Glu Tyr Glu Asp Ile Gln Ala Asp Ile
 385 390 395 400
 Phe Asp His Ile Phe Ala Val Val Asp Glu Phe Gly Leu Arg Ile His
 405 410 415
 Gln Ser Pro Thr Gly Asn Asp Ile Arg Ser Leu Ala Gly Val Ile Ala
 420 425 430
 Gln

<210> 9831

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 9831

Arg Leu Leu Phe Ser Cys Leu Leu His Leu His Thr Val Leu Arg Tyr
 1 5 10 15
 Pro Gly Arg Leu Glu Ala Gly Ser Glu Gln Asp Asp Gly Val Thr Ala
 20 25 30
 Pro Glu Gln Thr Gly Phe Pro Ser Cys Val Gln His Ile Ser His Asp
 35 40 45
 Ile Thr Gly Ile Lys Leu Glu Pro Ile Val Ala Leu Ser Ser Ser Arg
 50 55 60
 Ala Val Gly Ala Glu Val Leu Ser Val Leu Ser Pro His Gln Gln Ser
 65 70 75 80
 Glu Ser Phe Phe Gln Asp Trp Ser Ala Thr Arg Ala Leu Val Leu Leu
 85 90 95
 Glu Ala Gln Ile Ala Ala Leu Lys Asn Pro Phe Pro Cys Asp Asn Leu
 100 105 110
 Phe Ile Asn Leu Pro Ile Thr Val Leu Thr Ile Pro Glu Met Phe Gln
 115 120 125
 Arg Leu Leu Gln Leu Asn Ser Pro Pro Leu Asn Ile Glu Leu Val Glu
 130 135 140
 Pro Ala Ser Phe Phe Ser Leu Ser Asp Pro Val Arg Gln Arg Val Ser
 145 150 155 160
 Cys Ala Leu Gln Gln Leu Thr Ala Arg Gly His Arg Ile Trp Leu Asp
 165 170 175
 Asp Ile Asp Glu Ala Ser Gly Gln Ala Phe Leu Ser Cys Arg Leu Pro
 180 185 190
 Leu Cys Gly Ile Lys Ile Asp Lys Ile Ala Phe Trp Arg Leu Arg Glu
 195 200 205
 Thr Pro Ala Leu Thr Gln Leu Val Thr Leu Cys Ser Lys Ile Ala Ala
 210 215 220
 Asn Val Leu Ile Glu Gly Ile Glu Thr Glu Arg Asp Arg Thr Cys Ala

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<210> 9832
<211> 99
<212> PRT
<213> Enterobacter cloacae
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```
<210> 9833
<211> 662
<212> PRT
<213> Enterobacter cloacae
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4C00> 9833																			
Gln	Glu	Ala	Ala	Met	Gly	Arg	Pro	Leu	Lys	Ser	Val	Phe	Lys	Lys	Glu				
1				5				10					15						
His	Arg	Asp	Asp	Ile	Ser	Asn	Arg	Ser	Ala	Asn	Pro	Val	Phe	Ser	Glu				
								25					30						
Val	Ala	Glu	Val	Phe	Leu	Ser	Arg	Arg	Arg	Phe	Leu	Gln	Met	Gly	Ala				
								40				45							
Val	Ala	Gly	Ala	Ala	Val	Ser	Phe	Pro	Tyr	Leu	Ile	Thr	Pro	Glu	Asn				
								55			60								
Ala	Ile	Ala	Ala	Val	Ser	Lys	Pro	Ser	Ala	Leu	Ala	Lys	Ala	Val	Ser				
65					70					75					80				
Leu	Gly	Phe	Thr	Ser	Ile	Asp	Val	Ser	Thr	Glu	Asp	Thr	Val	Arg	Val				
				85					90					95					
Pro	Glu	Gly	Tyr	Ile	Ala	Arg	Pro	Phe	Tyr	Arg	Trp	Gly	Asp	Pro	Thr				
								105						110					
Gly	Ile	Lys	Asp	Asn	Met	Pro	Ala	Phe	Lys	Pro	Asp	Ala	Ser	Asn	Thr				
								120				125							
Thr	Asp	Glu	Gln	Ala	Val	Gln	Ala	Gly	Met	His	His	Asp	Gly	Met	Ala				
							135					140							
Trp	Phe	Ser	Leu	Pro	Gln	Gly	Ala	Gln	Asn	Pro	Glu	His	Gly	Leu	Leu				
145					150					155					160				
Ala	Leu	Asn	His	Glu	Tyr	Ile	Asp	Asn	Gly	Met	Leu	Phe	Thr	Asp	Gly				
					165				170					175					
Thr	Ala	Asn	Trp	Ser	Leu	Asp	Lys	Ala	Arg	Lys	Gly	Gln	Asn	Ala	Met				
					180				185					190					
Gly	Val	Ser	Val	Val	Glu	Val	Lys	Lys	Thr	Gly	Ser	Gly	Trp	Glu	Val				
							200					205							
Val	Arg	Pro	Ser	Ser	Phe	Ala	Arg	Arg	Ile	Thr	Val	Asn	Thr	Pro	Met				
						215						220							

Gln Leu Thr Gly Pro Ala Arg His Gln Asp Leu Met Lys Thr Ala Ala
 225 230 235 240
 Asp Pro Gln Gly Glu Arg Val Leu Gly Thr Met Gln Asn Cys Ala Asn
 245 250 255
 Gly His Thr Pro Trp Gly Thr Tyr Leu Thr Cys Glu Glu Asn Trp Ser
 260 265 270
 Asp Ile Phe Val Lys Lys Ala Asp Leu Asn Pro Leu Glu Lys Arg Tyr
 275 280 285
 Gly Ile Ser Asp Ser Asp Glu Ser Tyr Arg Trp Asn Glu Val Asp Glu
 290 295 300
 Arg Phe Ser Val Asp Lys Thr Pro Asn Glu Pro Asn Arg Phe Gly Trp
 305 310 315 320
 Val Val Glu Ile Asp Pro Tyr Asn Pro Thr Ser Thr Pro Arg Lys His
 325 330 335
 Thr Ala Leu Gly Arg Phe Lys His Glu Gly Ala Ala Val Thr Leu Ala
 340 345 350
 Ala Asp Asn Arg Val Val Val Tyr Met Gly Asp Asp Gln Lys Phe Glu
 355 360 365
 Tyr Ile Tyr Lys Phe Val Ser Asp Lys Lys Tyr Asp Pro Ala Asn Arg
 370 375 380
 Glu Ala Asn Met Gln Leu Leu Thr Ser Gly Thr Leu Tyr Val Ala Arg
 385 390 395 400
 Phe Asn Glu Asp Gly Ser Gly Asp Trp Leu Pro Leu Ile Phe Gly Gln
 405 410 415
 Asn Gly Leu Asp Lys Ser Asn Gly Phe Ala Ser Gln Gly Asp Leu Leu
 420 425 430
 Ile Lys Thr Arg Leu Ala Ala Asp Val Val Gly Ala Thr Lys Met Asp
 435 440 445
 Arg Pro Glu Trp Ile Ala Val Asp Pro His Ala Ser Gly Ser Val Tyr
 450 455 460
 Cys Thr Leu Thr Asn Asn Ser Asp Arg Gly Lys Glu Gly Lys Ala Pro
 465 470 475 480
 Val Asp Ala Ala Asn Pro Arg Ala Asn Asn Val Phe Gly His Ile Met
 485 490 495
 His Trp His Glu Glu Gly Ala Asp Pro Ala Ala Ala Arg Phe Lys Trp
 500 505 510
 Asp Ile Leu Val Met Ala Gly Arg Thr Asp Gly Asp Asp Pro Lys Ala
 515 520 525
 Lys Gly Ser Met Gln Gly Ala Ala Phe Gly Ser Pro Asp Gly Leu Ser
 530 535 540
 Phe Asp His Gln Gly Val Leu Trp Ile Gln Thr Asp Val Ser Ser Ser
 545 550 555 560
 Thr Ile Asn Lys Lys Ala Tyr Glu Gly Met Gly Asn Asn Gln Met Val
 565 570 575
 Ala Thr Ile Pro Gly Thr Asn Glu Tyr Arg Arg Phe Leu Thr Gly Pro
 580 585 590
 Arg Gly Cys Glu Ile Thr Gly Ile Ala Phe Thr Pro Asp Asn Arg Thr
 595 600 605
 Leu Phe Ile Asn Ile Gln His Pro Gly Glu Gly Gly Asp Asp Ile Thr
 610 615 620
 Asp Pro Ala Asn Pro Arg Ala Val Ser Asn Trp Pro Asp Ala Ser Pro
 625 630 635 640
 Asn Gly Arg Pro Arg Ser Ser Thr Val Val Ile Thr Lys Ala Asp Gly
 645 650 655
 Gly Ile Ile Gly Ser
 660

<210> 9834

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 9834

Gly Val Lys Asp Ala Ser Ser Ala Ser Gly His Gly Ser Ala Glu Ala
 1 5 10 15
 Ser Ser Asp Gln Asn Pro Thr Leu Gln Arg Gly Leu Gln Asn Arg His
 20 25 30
 Ile Gln Leu Ile Ala Leu Gly Gly Ala Ile Gly Thr Gly Leu Phe Leu
 35 40 45
 Gly Ile Gly Pro Ala Ile Gln Met Ala Gly Pro Ala Val Leu Leu Gly
 50 55 60
 Tyr Gly Ile Ala Gly Ile Ile Ala Phe Leu Ile Met Arg Gln Leu Gly
 65 70 75 80
 Glu Met Val Val Glu Glu Pro Val Ser Gly Ser Phe Ala His Phe Ala
 85 90 95
 Tyr Lys Tyr Trp Gly Pro Phe Ala Gly Phe Leu Ser Gly Trp Asn Tyr
 100 105 110
 Trp Val Met Phe Val Leu Val Gly Met Ala Glu Leu Thr Ala Ala Gly
 115 120 125
 Ile Tyr Met Gln Tyr Trp Leu Pro Asp Val Pro Thr Trp Ile Trp Ala
 130 135 140
 Ala Ala Phe Phe Ile Ile Ile Asn Ala Val Asn Leu Val Asn Val Arg
 145 150 155 160
 Leu Tyr Gly Glu Thr Glu Phe Trp Phe Ala Leu Ile Lys Val Leu Ala
 165 170 175
 Ile Ile Gly Met Ile Gly Phe Gly Leu Trp Leu Phe Ser Gly His
 180 185 190
 Gly Gly Glu Arg Ala Thr Ile Asp Asn Leu Trp Gln His Gly Gly Phe
 195 200 205
 Leu Ala Thr Gly Trp Lys Gly Leu Ile Leu Ser Leu Ala Val Ile Met
 210 215 220
 Phe Ser Phe Gly Gly Leu Glu Leu Ile Gly Ile Thr Ala Ala Glu Ala
 225 230 235 240
 Arg Asp Pro His Lys Ser Ile Pro Lys Ala Val Asn Gln Val Val Tyr
 245 250 255
 Arg Ile Leu Leu Phe Tyr Ile Gly Ser Leu Val Val Leu Leu Ala Leu
 260 265 270
 Tyr Pro Trp Val Glu Val Lys Ser Asp Ser Ser Pro Phe Val Met Ile
 275 280 285
 Phe His Asp Leu Asn Ser Asn Val Val Ala Ser Ala Leu Asn Phe Val
 290 295 300
 Ile Leu Val Ala Ser Leu Ser Val Tyr Asn Ser Gly Val Tyr Ser Asn
 305 310 315 320
 Ser Arg Met Leu Phe Gly Leu Ser Val Gln Gly Asn Ala Pro Lys Phe
 325 330 335
 Leu Thr Arg Val Ser Arg Arg Gly Val Pro Val Asn Ser Leu Phe Leu
 340 345 350
 Ser Gly Ala Ile Thr Ser Leu Val Val Leu Ile Asn Tyr Leu Leu Pro
 355 360 365
 Lys Glu Ala Phe Gly Leu Leu Met Ala Leu Val Val Ala Thr Leu Leu
 370 375 380
 Leu Asn Trp Ile Met Ile Cys Leu Ala His Leu Arg Phe Arg Ala Ala
 385 390 395 400
 Met Arg Arg Lys Gly Arg Glu Thr Gln Phe Lys Ala Leu Leu Tyr Pro
 405 410 415
 Ala Gly Asn Tyr Leu Cys Ile Ala Phe Leu Gly Leu Ile Leu Val Leu
 420 425 430
 Met Cys Thr Met Asp Glu Met Arg Leu Ser Ala Met Leu Leu Pro Val
 435 440 445
 Trp Val Val Phe Leu Phe Ile Ala Phe Lys Leu Ser Arg Lys Lys
 450 455 460

<210> 9835

<211> 432

<212> PRT

<213> *Enterobacter cloacae*

<400> 9835

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Ser Ile Thr Phe Tyr Leu Asn Cys Phe Val Ile Asp Tyr Phe Phe Arg
1      5      10      15
Val Arg Leu Ile Met Val Ser Thr Glu Ser Ser Glu Lys Ala Ile Thr
      20      25      30
Gln His Arg Leu Leu Val Pro Arg Leu Ser Leu Met Met Phe Leu Gln
      35      40      45
Phe Phe Ile Trp Gly Ser Trp Ser Val Thr Leu Gly Leu Val Met Thr
      50      55      60
Arg His Asn Met Ser Leu Leu Ile Gly Asp Ala Phe Ser Ala Gly Pro
65      70      75      80
Ile Ala Ser Ile Leu Ser Pro Phe Val Leu Gly Met Leu Val Asp Arg
      85      90      95
Phe Phe Ala Ser Gln Lys Val Met Ala Val Met His Leu Ala Gly Ala
      100      105      110
Val Ile Leu Trp Phe Val Pro Gly Ala Leu Ile Ala Glu Asn Gly Ala
      115      120      125
Leu Leu Ile Gly Leu Leu Phe Gly Tyr Thr Leu Cys Tyr Met Pro Thr
      130      135      140
Leu Ala Leu Thr Asn Asn Ile Ala Phe His Ser Leu Ala Asn Val Asp
145      150      155      160
Lys Thr Phe Pro Val Val Arg Val Phe Gly Thr Ile Gly Trp Ile Ala
      165      170      175
Ala Gly Ile Phe Ile Gly Val Thr Gly Val Ala Ser Ser Val Thr Ile
      180      185      190
Phe Gln Val Ala Ala Val Ser Ser Val Leu Leu Ala Val Tyr Ser Leu
195      200      205
Thr Leu Pro His Thr Pro Ala Pro Ala Lys Gly Leu Pro Val Lys Val
210      215      220
Arg Asp Leu Phe Cys Ala Asp Ala Phe Ala Leu Leu Lys Thr Arg His
225      230      235      240
Phe Phe Val Phe Ser Val Cys Ala Met Leu Ile Ser Val Pro Leu Gly
      245      250      255
Thr Tyr Tyr Ala Tyr Thr Ala Ser Tyr Leu Ala Asp Ala Gly Ile Ala
260      265      270
Asp Val Ser Thr Ala Met Ser Phe Gly Gln Met Ser Glu Ile Val Phe
275      280      285
Met Leu Val Ile Pro Leu Leu Phe Arg Arg Leu Gly Val Lys Val Met
290      295      300
Leu Leu Ile Gly Met Leu Ala Trp Phe Val Arg Tyr Ala Met Phe Ala
305      310      315      320
Leu Gly Val Ser Glu Glu Gly Arg Ile Leu Leu Tyr Leu Gly Ile Leu
      325      330      335
Leu His Gly Val Cys Tyr Asp Phe Phe Val Val Gly Phe Ile Tyr
      340      345      350
Thr Asp Arg Val Ala Gly Glu Lys Val Lys Gly Gln Ala Gln Ser Met
355      360      365
Ile Val Met Phe Thr Tyr Gly Ile Gly Met Leu Leu Gly Ser Gln Ile
370      375      380
Ser Gly Ala Leu Tyr Asn Arg Leu Val Ala Gly Gln Thr Val Pro Gln
385      390      395      400
Ala Trp Val Thr Phe Trp Trp Ile Pro Ala Val Ala Ala Ala Ile
      405      410      415
Ala Leu Ile Phe Leu Leu Thr Phe Lys Tyr Asp Asp Asp Lys Ala
420      425      430

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<210> 9836

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 9836

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Arg Ser Gly Gly Met Arg Thr Met Lys Gly Pro Gly Ile Phe Leu
1      5      10      15
Ser Gln Phe Ile Gly Ala Glu Ala Pro Phe Asn Ser Leu Asp Gly Leu
20      25      30
Ala Glu Trp Ala Ala Gly Lys Gly Tyr Lys Ala Val Gln Ile Pro Cys
35      40      45
Asn His Pro His Ile Phe Asp Val Glu Lys Ala Ala Glu Ser Gln Ala
50      55      60
Tyr Cys Asp Asp Ile Thr Ala Arg Leu Ala Ala His Gly Leu Val Ile
65      70      75
Ser Glu Leu Ser Thr His Leu Glu Gly Gln Leu Val Ala Val Asn Pro
85      90      95
Val Tyr Ser Glu Ala Phe Asp His Phe Ala Pro Ala Ala Val Arg Gly
100     105     110
Asn Glu Ala Ala Arg Arg Ala Trp Ala Thr Glu Lys Leu Lys Gln Ala
115     120     125
Ala Val Ala Ser Ala Arg Leu Gly Leu Lys Ala His Ala Thr Phe Ser
130     135     140
Gly Ser Leu Ala Trp Pro Phe Phe Tyr Pro Trp Pro Pro His Asn Gln
145     150     155
Gln Arg Phe Gln Glu Ala Phe Glu Glu Leu Ala Thr Arg Trp Arg Pro
165     170     175
Ile Leu Asp Thr Phe Asp Glu Gln Gly Val Asp Val Cys Phe Glu Leu
180     185     190
His Pro Gly Glu Asp Leu His Asp Gly Val Thr Phe Glu Arg Phe Leu
195     200     205
Ala Leu Val Asp Asn His Pro Arg Cys Asn Ile Leu Tyr Asp Pro Ser
210     215     220
His Met Leu Leu Gln Gln Met Asp Tyr Leu Ala Phe Ile Asp Ile Phe
225     230     235
His Ala Arg Ile Lys Ala Phe His Val Lys Asp Ala Glu Phe Arg Pro
245     250     255
Ser Gly Arg Ser Gly Val Tyr Gly Gly Tyr Gln Pro Trp Ile Asn Arg
260     265     270
Ala Gly Arg Phe Arg Ser Pro Gly Asp Gly Gln Ile Asp Phe Lys Gly
275     280     285
Ile Phe Ser Lys Leu Thr Gln Tyr Asp Tyr Asp Gly Trp Ala Val Leu
290     295     300
Glu Trp Glu Cys Cys Leu Lys Asp Gly Asp Thr Gly Ala Ser Glu Gly
305     310     315
Ser Glu Phe Ile Arg Arg His Ile Ile Pro Val Ser Gly Arg Ala Phe
325     330     335
Asp Asp Phe Ala Ala Gly Gly Cys His Asp
340     345

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<210> 9837

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 9837

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Tyr His Ala Thr Ile Ser Arg Val Val Gly Ile Met Phe Lys Arg Glu
1      5      10      15
Ala Glu Gly Glu Ser Ser Met Thr Ile Ser Ala Gln Val Ile Asp Thr
20      25      30

```

Ile Val Glu Trp Ile Asp Asp Asn Leu His Gln Pro Leu Arg Ile Glu
 35 40 45
 Glu Ile Ala Arg His Ala Gly Tyr Ser Lys Trp His Leu Gln Arg Leu
 50 55 60
 Phe Met Gln Tyr Lys Gly Glu Ser Leu Gly Arg Tyr Ile Arg Glu Arg
 65 70 75 80
 Lys Leu Leu Met Ala Ala Arg Asp Leu Arg Glu Ser Asp Glu Arg Val
 85 90 95
 Tyr Asp Ile Cys Leu Arg Tyr Gly Phe Asp Ser Gln Gln Thr Phe Thr
 100 105 110
 Arg Ile Phe Thr Arg Ile Phe Thr Arg Thr Phe Asn Gln Pro Pro Gly
 115 120 125
 Ala Tyr Arg Lys Glu Asn His Gly Arg Ala His
 130 135 140

<210> 9838

<211> 907

<212> PRT

<213> Enterobacter cloacae

<400> 9838

Arg Lys Asn Thr Met Thr Lys Lys Asn Phe Ser Gln Asn Met Pro Pro
 1 5 10 15
 Ala Gly Gly Gln Ala Tyr Gln Gln Thr Val Glu Gln Val Leu Ala Gln
 20 25 30
 Ala Gln Ser Gln Ala Asn Gly Leu Asp Arg Ala Glu Ala Gln Ala Arg
 35 40 45
 Leu Gln Lys His Gly Pro Asn Ala Leu Pro Glu Lys Lys Gly Lys Pro
 50 55 60
 Gly Trp Leu Arg Phe Leu Ala His Phe Asn Asp Val Leu Ile Tyr Val
 65 70 75 80
 Leu Leu Ala Ala Ala Val Leu Thr Ala Val Met Gly His Trp Val Asp
 85 90 95
 Thr Leu Val Ile Leu Gly Val Ala Val Ile Asn Ala Leu Ile Gly His
 100 105 110
 Ile Gln Glu Ser Asn Ala Glu Lys Ser Leu Lys Ser Ile Arg Asn Met
 115 120 125
 Leu Ser Ser Glu Ala Arg Val Ile Arg Asn Gly Asn His Glu Thr Ile
 130 135 140
 Pro Thr Thr Glu Ile Val Pro Gly Asp Ile Ile Val Leu Arg Ala Gly
 145 150 155 160
 Asp Arg Ile Pro Ala Asp Met Arg Leu Ile Glu Ala His Asn Leu Arg
 165 170 175
 Val Glu Glu Ala Ile Leu Thr Gly Glu Ser Thr Val Val Asp Lys His
 180 185 190
 Thr Asn Pro Leu Ser Gly Glu Leu Pro Leu Gly Asp Arg Thr Asn Leu
 195 200 205
 Val Phe Ser Gly Thr Thr Val Ser Ala Gly Gly Gly Val Gly Val Val
 210 215 220
 Ile Ala Thr Gly Gln Glu Thr Glu Leu Gly His Ile Asn Gln Met Met
 225 230 235 240
 Ala Gly Ile Glu Lys His Arg Thr Pro Leu Leu Val Gln Met Asp Lys
 245 250 255
 Leu Gly Lys Ala Ile Phe Ala Ile Ile Leu Ala Met Met Ala Ala Leu
 260 265 270
 Phe Val Phe Ser Leu Val Phe Arg Glu Ile Pro Met Gly Glu Leu Leu
 275 280 285
 Leu Ser Leu Ile Ser Leu Ala Val Ala Ser Val Pro Glu Gly Leu Pro
 290 295 300
 Ala Ile Ile Ser Ile Ile Leu Ser Leu Gly Val Gln Ala Met Ala Arg
 305 310 315 320

Lys Arg Ala Ile Ile Arg Lys Leu Pro Thr Val Glu Thr Leu Gly Ala
 325 330 335
 Met Thr Val Val Cys Ser Asp Lys Thr Gly Thr Leu Thr Met Asn Glu
 340 345 350
 Met Thr Val Lys Ala Ile Ile Thr Ala Asp Thr Cys Tyr Arg Val Asp
 355 360 365
 Gly Asn Ser Tyr Glu Pro Val Gly Asn Ile Tyr Leu Glu Gly Ser Asp
 370 375 380
 Glu Pro Val Gln Ile Gln Pro Gly Thr Val Leu Glu Gln Tyr Leu Arg
 385 390 395 400
 Thr Ile Asp Leu Cys Asn Asp Ser Gln Leu Ile Gln Asp Glu Arg Gly
 405 410 415
 Leu Trp Gly Ile Thr Gly Gly Pro Thr Glu Gly Ala Leu Lys Val Leu
 420 425 430
 Ala Ala Lys Ala His Leu Glu Pro Val Val Thr Thr Leu Val Asn Lys
 435 440 445
 Ile Pro Phe Asp Ser Gln Tyr Lys Tyr Met Ser Thr His Tyr Gln Ile
 450 455 460
 Gly Gly Glu Glu Gln Ile Leu Ile Thr Gly Ala Pro Asp Val Ile Phe
 465 470 475 480
 Ala Leu Cys Glu Gln Gln Gln Thr Arg Asn Gly Ala Gln Ala Phe Asp
 485 490 495
 Arg Ala Tyr Trp Glu Thr Glu Met Glu Arg Tyr Ala Arg Gln Gly Leu
 500 505 510
 Arg Met Val Ala Ala Phe Lys Pro Ala Asn Gly Glu Gln Ala Leu
 515 520 525
 Thr His Asp Asp Leu Ser His Gly Leu Ile Phe Leu Gly Ile Ala Gly
 530 535 540
 Met Met Asp Pro Pro Arg Pro Glu Ala Ile Glu Ala Ile Asn Ala Cys
 545 550 555 560
 Gln Gln Ala Gly Ile Arg Val Lys Met Ile Thr Gly Asp His Pro Gln
 565 570 575
 Thr Ala Met Ser Ile Gly Gln Met Leu Gly Ile Thr Asn Ser Glu Gln
 580 585 590
 Ala Val Thr Gly Tyr Gln Leu Glu Lys Met Asp Asp Ala Glu Leu Ala
 595 600 605
 Glu Ala Ala Val Lys Tyr Asp Ile Phe Ala Arg Thr Ser Pro Glu His
 610 615 620
 Lys Leu Arg Leu Val Lys Ala Leu Gln Asp Lys Gly Glu Ile Val Gly
 625 630 635 640
 Met Thr Gly Asp Gly Val Asn Asp Ala Pro Ala Leu Arg Gln Ala Asp
 645 650 655
 Val Gly Ile Ala Met Gly Ile Lys Gly Thr Glu Val Thr Lys Glu Ala
 660 665 670
 Ala Asp Met Val Leu Thr Asp Asp Asn Phe Ala Thr Ile Ala Ser Ala
 675 680 685
 Val Lys Glu Gly Arg Arg Val Tyr Asp Asn Leu Lys Lys Thr Ile Leu
 690 695 700
 Phe Ile Met Pro Thr Asn Leu Ala Gln Gly Leu Leu Ile Val Ile Ala
 705 710 715 720
 Leu Leu Ala Gly Asn Ile Ile Pro Leu Thr Pro Val Leu Ile Leu Trp
 725 730 735
 Met Asn Met Ala Thr Ser Ala Thr Leu Ser Phe Gly Leu Ala Phe Glu
 740 745 750
 Ala Ala Glu Arg Asn Ile Met Arg Arg Pro Pro Arg Gln Thr Gly Gln
 755 760 765
 His Val Met Asp Ala Tyr Ala Val Trp Arg Val Ala Phe Val Gly Thr
 770 775 780
 Met Ile Ala Ile Ala Ala Phe Ala Leu Glu Ala Trp Leu Ala Pro Arg
 785 790 795 800
 Gly His Ser Ala Glu Phe Ile Arg Thr Val Leu Leu Gln Met Leu Val

805 810 815
 Cys Ala Gln Trp Val Tyr Met Ile Asn Cys Arg Asn Thr Glu Gly Phe
 820 825 830
 Ser Leu Asn Arg Gly Leu Leu Ala Asn Lys Gly Ile Trp Leu Val Thr
 835 840 845
 Gly Val Leu Phe Leu Leu Gln Ala Ala Ile Ile Tyr Leu Pro Phe Met
 850 855 860
 Gln Met Leu Phe Gly Thr Glu Ala Leu Pro Leu Arg Tyr Trp Phe Val
 865 870 875 880
 Thr Leu Ala Val Ala Gly Val Met Phe Phe Val Val Glu Ile Glu Lys
 885 890 895
 Arg Leu Thr Arg Arg Phe Arg Lys Ala Ala
 900 905

<210> 9839

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 9839

Gly Lys Thr Thr Pro Arg Tyr Phe Leu Met Lys Leu Pro Leu Leu Phe
 1 5 10 15
 Ala Leu Leu Ala Cys Thr Leu Gln Pro Ala Phe Ala Ala Val Ile Pro
 20 25 30
 Val Arg Val Ala Thr Val Glu Gln Thr Ala His Ala Ala Glu Arg Gln
 35 40 45
 Ile Pro Gly Arg Ile Glu Ala Ile His Thr Val Glu Leu Arg Ala Arg
 50 55 60
 Thr Glu Gly Val Ile Thr Arg Ile His Phe Arg Asp Gly Gln Tyr Val
 65 70 75 80
 Lys Lys Gly Asp Val Leu Phe Glu Leu Asp Ala Glu Pro Arg Ala
 85 90 95
 Ala Leu Arg Leu Ala Gln Ala Glu Val Arg Ser Ala Glu Ala Thr Leu
 100 105 110
 Arg Gln Ala Gln Gln Gln Leu Ser Arg Phe Glu Ser Leu Gly Ser Ser
 115 120 125
 Asn Ala Ile Ser Arg His Asp Val Asp Asn Ala Arg Met Gln Arg Asp
 130 135 140
 Val Ala Ser Ala Ala Leu Glu Gln Ala Lys Ala Arg Leu Asp Thr Arg
 145 150 155 160
 Ser Val Thr Leu Asp Tyr Thr Arg Ile Ile Ser Pro Ile Asp Gly Arg
 165 170 175
 Val Gly His Ser Asn Phe His Val Gly Ser Leu Val Asn Pro Ala Ser
 180 185 190
 Gly Val Leu Val Glu Val Val Gln Leu Asp Pro Ile Arg Ile Ala Phe
 195 200 205
 Ala Leu Glu Glu Gly Ala Phe Ala Thr Lys Ala Gly Gln His Ala Asp
 210 215 220
 Ile Ser Ala Met Lys Gln Ala Trp Gln Ala Leu Ile Asp Ser Asn Gly
 225 230 235 240
 Gln Arg Ile Ser Gly Glu Leu Thr Ser Val Asp Asn Arg Ile Asp Pro
 245 250 255
 Arg Thr Ala Ser Val Met Leu Arg Ala Glu Phe Ala Asn Pro Arg His
 260 265 270
 Gln Leu Leu Pro Gly Gly Asn Val Asn Val Tyr Leu Arg Pro Ala Ser
 275 280 285
 Glu Leu Pro Val Leu Thr Leu Pro Ala Ala Ala Val Gln Gln Asn Gly
 290 295 300
 Asp Gly Phe Phe Ala Trp Val Ile Asn Ala Glu Asp Lys Ala Glu Met
 305 310 315 320
 Arg Pro Leu Lys Val Ala Gly Gln Ile Gly Gln Gln Phe Gln Ile Ala

325 330 335
 Ser Gly Val Lys Pro Gly Glu Arg Ala Ile Thr Asp Gly Ala Gln Arg
 340 345 350
 Val Gln Pro Gly Val Ala Val Gln Ile Leu Asn
 355 360

<210> 9840

<211> 1055

<212> PRT

<213> Enterobacter cloacae

<400> 9840

Gly Ala Ile Met Leu Thr Phe Phe Ile Lys Arg Pro Arg Phe Ala Met
 1 5 10 15
 Val Ile Ala Leu Val Ile Thr Leu Leu Gly Ala Ile Ala Leu Arg Ile
 20 25 30
 Ile Pro Val Glu Gln Tyr Pro Gln Ile Thr Pro Pro Val Val Asn Val
 35 40 45
 Ser Ala Ser Trp Pro Gly Ala Ser Ser Ala Asp Val Ala Glu Ala Ile
 50 55 60
 Ala Thr Pro Leu Glu Thr Gln Leu Asn Gly Val Asp His Met Leu Tyr
 65 70 75 80
 Met Glu Ser Thr Ser Ser Asp Glu Gly Thr Tyr Ser Leu Asn Ile Thr
 85 90 95
 Phe Ala Ala Gly Thr Asp Pro Asp Leu Ala Ala Ile Asp Val Gln Asn
 100 105 110
 Arg Val Ala Gln Ala Val Ala Gln Leu Pro Thr Glu Ala Gln Gln Asn
 115 120 125
 Gly Val Gln Val Arg Lys Arg Ala Thr Asn Leu Met Met Gly Val Ser
 130 135 140
 Leu Tyr Ser Pro Asn Asn Thr His Thr Pro Leu Phe Val Ser Asn Tyr
 145 150 155 160
 Ala Ser Thr Gln Val Arg Glu Ala Leu Ser Arg Leu Pro Gly Val Gly
 165 170 175
 Gln Val Gln Met Phe Gly Ala Arg Asp Tyr Ser Met Arg Ile Trp Leu
 180 185 190
 Arg Pro Asp Arg Met Asn Ala Leu Asn Val Thr Ser Asp Asp Val Ala
 195 200 205
 Gln Ala Leu Arg Glu Gln Asn Val Gln Gly Ala Ala Gly Gln Val Gly
 210 215 220
 Thr Pro Pro Val Phe Asn Gly Gln Gln Gln Thr Leu Thr Ile Asn Gly
 225 230 235 240
 Leu Gly Arg Leu Asn Gln Ala Asp Asp Phe Ala Asn Ile Ile Ile Arg
 245 250 255
 Ala Gly Glu Met Gly Gln Leu Val Arg Leu Lys Asp Val Ala Thr Ile
 260 265 270
 Glu Leu Gly Ser Leu Ser Tyr Ser Ser Gly Ala Gln Leu Asn Gly His
 275 280 285
 Asp Ser Ala Tyr Leu Gly Ile Tyr Pro Thr Pro Ser Ala Asn Ala Leu
 290 295 300
 Arg Val Ala Asp Ala Val Arg Ala Glu Leu Glu Arg Leu Ser Thr Arg
 305 310 315 320
 Phe Pro Asp Asp Leu Val Tyr Glu Val Lys Phe Asp Thr Thr Ser Phe
 325 330 335
 Val Ala Ala Thr Ile Lys Glu Ile Gly Val Ser Leu Ala Leu Thr Met
 340 345 350
 Leu Ala Val Val Val Val Val Ser Leu Phe Leu Gln Ser Trp Arg Ala
 355 360 365
 Thr Leu Ile Val Ala Leu Ala Ile Pro Val Ser Leu Val Gly Thr Phe
 370 375 380
 Ala Val Leu Tyr Thr Leu Gly Tyr Ser Ala Asn Thr Leu Ser Leu Phe

385		390		395		400
Ala	Ile	Ile	Leu	Ala	Leu	Thr
		405		410		415
Val	Glu	Ser	Val	Glu	Thr	Leu
		420		425		430
Ala	Thr	Ala	Leu	Ala	Leu	Arg
		435		440		445
Thr	Leu	Val	Leu	Leu	Ala	Val
		450		455		460
Ile	Val	Gly	Glu	Leu	Tyr	Arg
465				470		475
Val	Thr	Leu	Ser	Ser	Leu	Val
		485		490		495
Ala	Leu	Leu	Leu	Arg	Pro	Arg
		500		505		510
Gly	Phe	Asn	Arg	Gly	Leu	Asp
		515		520		525
Val	Ser	Val	Phe	Asn	Leu	Arg
		530		535		540
Gly	Ala	Ala	Ala	Val	Val	Phe
545				550		555
Phe	Leu	Pro	Gln	Glu	Asp	Gln
		565		570		575
Pro	Glu	Ala	Ala	Ser	Leu	Glu
		580		585		590
Arg	Glu	Leu	Ile	Ala	Lys	Asn
		595		600		605
Ser	Gly	Phe	Asn	Ile	Leu	Asn
		610		615		620
Ile	Ser	Ile	Met	Leu	Lys	Asp
625				630		635
Val	Met	Gly	Thr	Leu	Gln	Arg
		645		650		655
Ile	Met	Thr	Phe	Ala	Pro	Pro
		660		665		670
Gly	Phe	Asp	Leu	Arg	Ile	Gln
		675		680		685
Leu	Glu	Arg	Val	Thr	Arg	Glu
		690		695		700
Gln	Leu	Ser	Arg	Val	Phe	Thr
705				710		715
Thr	Leu	Thr	Val	Asp	Arg	Glu
		725		730		735
Ser	Arg	Ile	Phe	Ser	Ser	Leu
		740		745		750
Gly	Asp	Phe	Ser	Val	Asn	Asn
		755		760		765
Glu	Met	Gln	Trp	Arg	Glu	Arg
770				775		780
Arg	Ser	Asn	Ser	Gly	Glu	Arg
785				790		795
Thr	Pro	Thr	Val	Gly	Ala	Pro
		805		810		815
Ser	Val	Ser	Val	Ser	Gly	Ser
		820		825		830
Ala	Met	Ala	Ala	Met	Gly	Glu
		835		840		845
Tyr	Asp	Tyr	Ala	Trp	Ser	Gly
850				855		860
Asn	Gln	Ala	Ile	Trp	Ile	Val
865				870		875
						880

Phe Leu Val Ala Gln Tyr Glu Ser Trp Thr Leu Pro Ala Ser Val Met
 885 890
 Leu Ser Val Leu Phe Ala Ile Gly Gly Ala Leu Val Trp Leu Trp Leu
 900 905 910
 Ala Gly Tyr Ala Asn Asp Val Tyr Val Gln Ile Gly Leu Val Leu Leu
 915 920 925
 Ile Ala Leu Ala Ala Lys Asn Ala Ile Leu Ile Val Glu Phe Ala Arg
 930 935 940
 Ala Arg Arg Met Asp Gly Met Ala Ile Val Asp Ala Ala Arg Glu Gly
 945 950 955 960
 Ala Ser Arg Arg Phe Arg Ala Val Met Thr Ala Val Ser Phe Ile
 965 970 975
 Ile Gly Val Leu Pro Met Met Leu Ala Thr Gly Ala Gly Ala Gln Ser
 980 985 990
 Arg Arg Ile Ile Gly Thr Thr Val Phe Ser Gly Met Leu Val Ala Thr
 995 1000 1005
 Val Val Gly Ile Val Phe Ile Pro Ala Leu Phe Val Leu Phe Gln Arg
 1010 1015 1020
 Leu Arg Glu Trp Gly His Gly Leu Thr Asp Ser Ser Pro Thr Ala His
 1025 1030 1035 1040
 Ser Ala Ser Ala Pro Glu Lys Ser Ala Ser Arg His Arg Arg
 1045 1050 1055

<210> 9841

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 9841

Gly Arg Val Val Ser Ser Gln Cys Asp Val Ala Trp Ile Ser Gln Ala
 1 5 10 15
 Ile Leu Ile Ala Leu Leu Ser Val Ser Gly Leu Ser Val Asp Arg Thr
 20 25 30
 Cys Met Val Leu Met Cys Gly Leu Gly Arg Met Ser Gln Cys Arg Ser
 35 40 45
 Leu Met Leu Ser Ile Leu Ser Asp Arg Gln Ala Asp Arg Leu Met Glu
 50 55 60
 Trp Asp Ile Arg Asn Gly Val Ile Gln Arg Tyr Gly Arg Arg His Gly
 65 70 75 80
 Ile Ala Val Pro Val Ser Asp Val Val Val Pro Leu Leu Ala Ala Gly
 85 90 95
 Ser Glu Gly Pro Gly
 100

<210> 9842

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 9842

His Ser Ser Asp Ala Thr Leu Phe Ser Val Leu Ile Thr Ser Ser Asn
 1 5 10 15
 Lys Phe Met Thr Thr Ala Asp Phe Lys Arg Pro Lys Leu Glu Leu Pro
 20 25 30
 Asn Gly Ala Asp Lys Leu Leu Leu His Ser Cys Cys Ala Pro Cys Ser
 35 40 45
 Gly Gly Val Met Glu Ala Ile Gln Ala Ser Gly Ile Asp Tyr Thr Ile
 50 55 60
 Phe Phe Tyr Asn Pro Asn Ile His Pro Gln Lys Glu Tyr Leu Ile Arg
 65 70 75 80
 Lys Asp Glu Asn Ile Arg Phe Ala Glu Gln His Gly Val Pro Phe Ile

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<210> 9843
<211> 268
<212> PRT
<213> Enterobacter cloacae
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[illegible]

260

265

<210> 9844

<211> 278

<212> PRT

<213> *Enterobacter cloacae*

<400> 9844

Pro Ala Ala Asp Gly Pro Ala Pro Ser Gln Pro Asp Phe Val Asn Gln
 1 5 10 15
 Tyr Lys Asp Arg Glu Met Gln Lys Val Ala Leu Val Thr Gly Ser Gly
 20 25 30
 Gln Gly Ile Gly Lys Ala Ile Ala Leu Arg Leu Val Lys Asp Gly Phe
 35 40 45
 Ala Val Ala Ile Ala Asp Tyr Asn Glu Glu Thr Ala Lys Ala Val Ala
 50 55 60
 Asp Glu Ile Thr Arg Asn Gly Gly Lys Ala Val Ala Val Lys Val Asp
 65 70 75 80
 Val Ser Asp Arg Glu Gln Val Phe Ala Ala Val Glu Lys Ala Arg Thr
 85 90 95
 Ala Leu Gly Gly Phe Asn Val Ile Val Asn Asn Ala Gly Val Ala Pro
 100 105 110
 Ser Thr Pro Ile Glu Ser Ile Thr Pro Glu Ile Val Asp Lys Val Tyr
 115 120 125
 Asn Ile Asn Val Lys Gly Val Ile Trp Gly Ile Gln Ala Ala Ile Asp
 130 135 140
 Ala Phe Arg Lys Glu Gly His Gly Gly Lys Ile Ile Asn Ala Cys Ser
 145 150 155 160
 Gln Ala Gly His Thr Gly Asn Pro Glu Leu Ala Val Tyr Ser Ser Ser
 165 170 175
 Lys Phe Ala Val Arg Gly Leu Thr Gln Thr Ala Ala Arg Asp Leu Ala
 180 185 190
 Pro Leu Gly Ile Thr Val Asn Ala Tyr Cys Pro Gly Ile Val Lys Thr
 195 200 205
 Pro Met Trp Ala Glu Ile Asp Arg Gln Val Ser Glu Ala Ala Gly Lys
 210 215 220
 Pro Leu Gly Tyr Gly Thr Glu Thr Phe Ala Lys Arg Ile Thr Leu Gly
 225 230 235 240
 Arg Leu Ser Glu Pro Glu Asp Val Ala Ala Cys Val Ser Tyr Leu Ala
 245 250 255
 Gly Pro Asp Ser Asp Tyr Met Thr Gly Gln Ser Leu Leu Ile Asp Gly
 260 265 270
 Gly Met Val Phe Asn
 275

<210> 9845

<211> 86

<212> PRT

<213> *Enterobacter cloacae*

<400> 9845

Lys Pro Pro Pro Thr Arg Arg Gly Asn Ala Phe Trp Ala Pro Cys Arg
 1 5 10 15
 Thr Ala Pro Thr Ala Thr Arg Arg Gly Ala Pro Ile Ser Pro Ala Arg
 20 25 30
 Arg Thr Gly Arg Thr Phe Leu Ser Lys Lys Pro Ile Ser Thr Arg Trp
 35 40 45
 Lys Asn Ala Thr Ala Ser Ala Thr Ala Met Asn Arg Thr Ala Gly Thr
 50 55 60
 Arg Trp Met Ser Gly Ser Ala Leu Ile Lys Pro Leu Thr Asn Pro Thr
 65 70 75 80

Val Ser Ala Gly Trp
85

<210> 9846

<211> 415

<212> PRT

<213> Enterobacter cloacae

<400> 9846

Arg Met Ala Ile Pro Ala Arg Val Arg Ala Ala Asn Leu Ser Ala Gly
1 5 10 15
Thr Leu Phe Pro Phe Pro Asp Gly Arg Leu Met Ile Ser Pro Gln Gly
20 25 30
Ala Ala Met Ile Asn Val Gly Ile Ile Gly Ser Gly Phe Ile Gly Pro
35 40 45
Ala His Ile Glu Ala Leu Arg Arg Leu Gly Phe Val Gln Val Val Ala
50 55 60
Leu Cys Asp Gly Ser Leu Val Lys Ala Gln Glu Lys Ala Arg Gln Leu
65 70 75 80
Asn Val Pro His Ala Tyr Ala Ser Val Glu Leu Leu Ala His Pro
85 90 95
Asn Leu His Ala Val His Asn Cys Thr Pro Asn His Leu His Ala Glu
100 105 110
Ile Asn Arg Gln Ile Leu Arg Ala Gly Lys His Val Phe Ser Glu Lys
115 120 125
Pro Leu Cys Met Thr Pro Asp Glu Ala Arg Glu Leu Val Ala Leu Ala
130 135 140
Glu Gln Ala Gly Val Val His Gly Val Ser Phe Val Tyr Arg Gln Phe
145 150 155 160
Ala Met Val Arg Gln Ala Ala Ser Met Met Arg Ala Gly Thr Val Gly
165 170 175
Arg Leu Phe Ala Ser His Gly Ser Tyr Leu Gln Asp Trp Met Leu Leu
180 185 190
Glu Thr Asp Tyr Asn Trp Arg Val Glu Ala Ala Leu Gly Gly Ala Ser
195 200 205
Arg Ala Val Ala Asp Ile Gly Ser His Trp Cys Asp Thr Val Gln Tyr
210 215 220
Val Thr Gly Arg Arg Ile Thr Glu Val Met Ala Asp Leu Ser Ile Val
225 230 235 240
Trp Pro Arg Arg Lys Ala Ser Ala Gly Gly Tyr Gln Thr Phe Ser His
245 250 255
Asp Glu Gln Ala Glu Tyr Glu Val Lys Pro Val Thr Thr Glu Asp Phe
260 265 270
Gly Ser Val Leu Phe Arg Phe Asp Asp Gly Ser Lys Gly Ser Phe Ser
275 280 285
Val Ser Gln Val Ser Ala Gly Arg Lys Asn Arg Leu Thr Phe Glu Ile
290 295 300
Asn Gly Ser Glu Gln Ser Val Ala Trp Asp Gln Glu Ile Pro Gln Gln
305 310 315 320
Leu Trp Ile Gly His Arg Ala Arg Ala Asn Gln Thr Leu Thr Asp Asp
325 330 335
Pro Gly Leu Met Asn Pro Asp Val Ala Asp Ser Ala His Phe Pro Gly
340 345 350
Gly His Ile Glu Gly Trp Pro Asp Ala Phe Lys Asn Met Met Ala Gln
355 360 365
Phe Tyr Arg Ala Val Gln Ala Gly Ala Met Pro Asp Thr Pro Gln Phe
370 375 380
Ala Thr Phe His Asp Gly Ala Asn Val Met Tyr Ile Ile Asp Ala Ile
385 390 395 400
Val Lys Ser His Gln Gln Gln Arg Trp Val Arg Val Glu Gln
405 410 415

<210> 9847
 <211> 340
 <212> PRT
 <213> Enterobacter cloacae

<400> 9847
 Ile Tyr Gly Ser Leu His Lys Thr Leu Thr Ala Gly Cys Val Val Ala
 1 5 10 15
 Met Ser Ile Gln Lys Ile Ala Gln Leu Ala Gly Val Ser Val Ala Thr
 20 25 30
 Val Ser Arg Val Leu Asn Asn Ser Asp Thr Val Lys Ala Lys Asn Arg
 35 40 45
 Glu Arg Val Leu Arg Ala Ile Gln Glu Ser Asn Tyr Gln Pro Asn Leu
 50 55 60
 Leu Ala Arg Gln Leu Arg Thr Ala Arg Ser Tyr Met Ile Leu Val Met
 65 70 75 80
 Val Ser Asn Ile Ala Asn Pro Phe Cys Ala Glu Val Val Lys Gly Ile
 85 90 95
 Glu Ala Glu Ala Glu Lys Asn Gly Tyr Arg Ile Leu Leu Cys Asn Ser
 100 105 110
 Gly Ser Asp Ile Glu Arg Ser Arg Ser Gly Leu Ser Leu Leu Ser Gly
 115 120 125
 Lys Ile Val Asp Gly Ile Ile Thr Met Asp Ala Phe Ser Lys Leu Pro
 130 135 140
 Glu Leu Ala Ala Leu Ile Gly Asn Ala Pro Trp Val Gln Cys Ala Glu
 145 150 155 160
 Tyr Ala Asp Ala Gly Ala Val Ser Cys Val Gly Ile Asn Asp Val Asp
 165 170 175
 Ala Ser Gln His Ala Val Ser Gln Leu Ala Asp Gly Gly Arg Lys Arg
 180 185 190
 Ile Ala Met Ile Asn His Asp Leu Ser Tyr Lys Tyr Ala Arg Leu Arg
 195 200 205
 Glu Arg Gly Tyr Lys Ser Val Ile His Leu Arg Asp Leu Asp Tyr Gln
 210 215 220
 Ala Val Glu Tyr Ala Ser Asp Leu Ser Ser Gly Ala Gly Met Ala Ala
 225 230 235 240
 Met Gln Asn Leu Leu Lys Asp Asn Pro Pro Asp Ala Val Phe Ala Val
 245 250 255
 Ser Asp Thr Leu Ala Ala Gly Ala Leu Arg Ala Ile Gln Gln Ala Gly
 260 265 270
 Leu Arg Val Pro Glu Asp Ile Ala Val Val Gly Phe Asp Gly Thr Glu
 275 280 285
 Leu Ala Asp Met Ile Ser Leu Thr Thr Ile Glu Gln Pro Ser Arg Asp
 290 295 300
 Ile Gly Arg Lys Ala Val Asp Leu Leu Leu Asn Lys Ile Asp Asn Pro
 305 310 315 320
 Asp Ala Pro Thr Glu Arg Val Met Met Asp Trp Arg Phe Ile Ser Arg
 325 330 335
 Ala Ser Thr
 340

<210> 9848
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 9848
 Asn Asp Asn Arg Arg Cys Trp Met Ser Lys Lys Ile Ile Asp Trp Asp
 1 5 10 15
 Glu Leu Arg Ala Glu Leu Leu Ser Asp Ser Glu Val Gln Ala Ser Phe

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<210> 9849
<211> 544
<212> PRT
<213> Enterobacter cloacae
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1	Yr	Cys	Lys	Leu	5	Pro	Phe	Ala	Leu	10	Leu	Leu	Thr	Asn	Phe	Val
1	Gly	Glu	Gln	Ala	20	Val	Met	Lys	Arg	25	Val	Trp	Ser	Gly	Leu	15
1	Ile	Gly	Ala	Leu	35	Pro	Ala	Val	Ala	40	Ala	Thr	Cys	Glu	Gln	30
1	Gln	Gly	Asp	Ile	50	Gln	Gly	Lys	55	Phe	Asp	Ala	Ser	Gly	60	45
1	Ser	Leu	Pro	Glu	65	Leu	Gly	70	Glu	Asn	Tyr	Val	Ser	Ala	Thr	Leu
1	Val	Thr	Asp	Ala	85	Arg	Leu	Leu	Asp	Gly	Gln	Asn	Arg	Arg	Ile	80
1	Leu	Ile	Glu	Asn	100	Gly	Pro	Ala	Asp	Gly	Glu	His	Thr	Leu	Leu	95
1	Leu	Pro	Val	Lys	115	Gln	Asn	Thr	Ser	120	Leu	Val	Leu	His	Gly	110
1	Lys	Pro	Trp	Arg	130	Phe	Gln	Trp	Arg	135	Met	Lys	Glu	Thr	Ser	125
1	Arg	Val	Gln	Met	145	Leu	Ala	Pro	Glu	150	Ser	Pro	Thr	Leu	Lys	140
1	Ser	Val	Ile	Ser	165	Ala	Gly	Gly	Ser	170	Thr	Glu	Ala	Phe	Trp	155
1	Arg	Arg	Gln	Gly	180	Thr	Pro	Met	Val	185	Glu	Pro	Val	Asp	Ala	175
1	Arg	Val	Thr	Phe	195	Leu	Trp	Arg	Gly	200	Ala	Arg	Asp	Asn	Val	190
1	Gly	Ser	Pro	Ala	210	Gly	Thr	His	215	Asp	Pro	Leu	Phe	Arg	Leu	205
1	Asp	Val	Trp	Phe	225	Arg	Ser	Tyr	Val	230	Val	Pro	Ala	Asp	Thr	220
1	Tyr	Lys	Leu	Ala	240	Pro	Asp	Val	Pro	245	Ile	Val	Glu	Gly	Ser	235
1	Gln	Arg	Arg	Ala	255	Ile	Leu	Val	Ser	260	Ala	Gln	Ala	Asp	Pro	250
1	Asn	Thr	Phe	Gly	270	Glu	Gln	Lys	275	Thr	Asp	Arg	Trp	Asn	Arg	265
1	Leu	Asp	Leu	Ser	285	Pro	Ala	Arg	290	Tyr	Cys	Ser	Val	Gln	Ala	280
1	Pro	Leu	Val	His	300	Gly	Thr	Leu	Ser	305	Arg	Gln	Ser	Phe	Ser	300
1	Leu	Gly	Asn	Ala	310	Arg	Asp	Val	Met	315	Ile	Tyr	Gln	Pro	Arg	305
1	Pro	Ala	Arg	Trp	325	Thr	Leu	Ile	Leu	330	Phe	Asp	Gly	Gln	Val	315
1	Pro	Ala	Arg	Trp	335	Thr	Leu	Ile	Leu	340	Phe	Asp	Gly	Gln	Val	330

340 345 350
 Glu Tyr His Phe Ala Asn Val Leu Asp Gly Leu Ile Ala Arg His His
 355 360 365
 Leu Pro Pro Ile Asn Val Val Phe Ile Asp Ser Leu Asp His Ala Arg
 370 375 380
 Arg Gly Asn Glu Leu Pro Pro Asn Pro Asp Phe Ala Asp Phe Met Ala
 385 390 395 400
 His Glu Leu Leu Pro Trp Leu Arg Gly Lys Gly Ile Gly Met Gln Arg
 405 410 415
 Gln Lys Thr Val Leu Ala Gly Ser Ser Tyr Gly Gly Ile Ala Ser Ser
 420 425 430
 Trp Val Ala Leu Arg Tyr Pro Arg Leu Phe Gly Asn Val Leu Ser Leu
 435 440 445
 Ser Gly Ser Tyr Trp Trp Ala Pro Glu Gly Asp Ala Pro Gly Trp Leu
 450 455 460
 Thr Arg Gln Tyr Gln Gln Ser Pro Pro Tyr Pro Val Arg Phe Trp Leu
 465 470 475 480
 Gln Ala Gly Lys Phe Glu Thr Thr Ala Gly Pro Gly Gly Ile Tyr Arg
 485 490 495
 Thr Thr Gln Asp Phe Glu Gln Val Leu Arg Lys Lys Gly Tyr Arg Val
 500 505 510
 Ser Phe His Pro Ser Ser Ser Gly His Asp Tyr Ala Ala Trp Cys Glu
 515 520 525
 Ala Leu Ile His Gly Met Arg Asp Leu Thr Gly Leu Arg Arg Gln
 530 535 540

<210> 9850

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 9850

Pro Met Ser Asp Tyr Pro Thr Ile Ala Leu Thr Gly Pro Gly Ala Ile
 1 5 10 15
 Gly Thr Thr Ile Ala Ala Val Leu His Glu Ala Gly Arg Thr Pro Leu
 20 25 30
 Leu Cys Gly Arg Thr Ala His Pro Glu Leu Arg Leu Arg His Asp Glu
 35 40 45
 Gly Glu Ile Val Val Pro Gly Pro Val Leu Thr Asp Pro Ser Val Ile
 50 55 60
 Thr Arg Pro Val Asp Leu Val Phe Leu Ala Val Lys Thr Thr Gln Asn
 65 70 75 80
 Ala Asp Ser Ala Gly Trp Leu Arg Ala Leu Cys Asp Glu Asn Thr Val
 85 90 95
 Val Cys Ala Leu Gln Asn Gly Val Glu Gln Lys Ala Gln Leu Ala Pro
 100 105 110
 Leu Val Asn Gly Ala Thr Val Leu Pro Ser Val Val Trp Phe Pro Ala
 115 120 125
 Gln Arg Glu Pro Asp Ala Ser Val Trp Leu Arg Ala Lys Pro Arg Leu
 130 135 140
 Thr Leu Pro Asp Val Pro Gln Ala Gln Arg Val Val Glu Ala Leu Arg
 145 150 155 160
 Asp Thr Arg Cys Ala Val Glu Leu Ser Glu Asp Phe Pro Thr Val Ala
 165 170 175
 Trp Arg Lys Leu Leu Gln Asn Ala Val Ala Gly Leu Met Val Leu Ala
 180 185 190
 Asn Arg Arg Ala Gly Met Phe Arg Arg Glu Asp Ile Ser Glu Leu Ala
 195 200 205
 Leu Ala Tyr Leu Arg Glu Gly Leu Thr Val Ser Arg Ala Glu Gly Ala
 210 215 220
 Lys Leu Asp Asp Ala Val Ala Glu Glu Ile Leu Ala Asn Phe Gln Arg

225 230 235 240
 Ala Pro Val Asp Leu Gly Thr Ser Ile Leu Ala Asp Arg Gln Ala Asp
 245 250 255
 Arg Pro Met Glu Trp Asp Ile Arg Asn Gly Val Ile Gln Arg Tyr Gly
 260 265 270
 Arg Arg His Gly Ile Ala Val Pro Val Ser Asp Val Val Val Pro Leu
 275 280 285
 Leu Ala Ala Gly Ser Glu Gly Pro Gly
 290 295

<210> 9851

<211> 593

<212> PRT

<213> Enterobacter cloacae

<400> 9851

Leu Thr Cys Pro Pro Thr Ala Arg Phe Tyr Arg Pro Ile Cys Thr Pro
 1 5 10 15
 Ala Thr Leu Met Arg Leu Ser Ala Pro Ser Lys Thr Asn Arg Arg Thr
 20 25 30
 Thr Val Asn Ser Glu Lys Gln Ser Arg Gln Trp Ala His Gly Ala Asp
 35 40 45
 Met Val Val Gly Gln Leu Glu Ala Gln Gly Val Lys Gln Val Phe Gly
 50 55 60
 Ile Pro Gly Ala Lys Ile Asp Lys Val Phe Asp Ser Leu Leu Asp Ser
 65 70 75 80
 Ser Ile Glu Ile Ile Pro Val Arg His Glu Ala Asn Ala Ala Phe Met
 85 90 95
 Ala Ala Ala Val Gly Arg Leu Thr Gly Lys Ala Gly Val Ala Leu Val
 100 105 110
 Thr Ser Gly Pro Gly Cys Ser Asn Leu Ile Thr Gly Ile Ala Thr Ala
 115 120 125
 Asn Ser Glu Gly Asp Pro Val Val Ala Leu Gly Gly Ala Val Lys Arg
 130 135 140
 Ala Asp Lys Ala Lys Leu Val His Gln Ser Met Asp Thr Val Ala Met
 145 150 155 160
 Phe Ser Pro Val Thr Lys Tyr Ala Val Glu Val Asn Ser Pro Asp Ala
 165 170 175
 Ile Ala Glu Val Val Ser Asn Ala Phe Arg Ala Ala Glu Gln Gly Arg
 180 185 190
 Pro Gly Gly Ala Phe Val Ser Leu Pro Gln Asp Ile Val Asp Gln Pro
 195 200 205
 Thr Thr Gly Ala Ile Leu Pro Ala Ser Thr Ala Ala Leu Met Gly Pro
 210 215 220
 Ala Pro Glu Ser Ala Ile Asn Glu Val Ala Lys Leu Ile Ala Lys Ala
 225 230 235 240
 Lys Asn Pro Val Ile Leu Leu Gly Leu Met Ala Ser Gln Pro Ala Asn
 245 250 255
 Ser Ala Ala Leu His Lys Leu Leu Glu Arg Ser Arg Ile Pro Val Thr
 260 265 270
 Ser Thr Tyr Gln Ala Ala Gly Ala Val Asn Gln Glu His Phe Thr Arg
 275 280 285
 Phe Ala Gly Arg Val Gly Leu Phe Asn Asn Gln Ala Gly Asp Arg Leu
 290 295 300
 Leu His Leu Ala Asp Leu Ile Ile Cys Ile Gly Tyr Ser Pro Val Glu
 305 310 315 320
 Tyr Glu Pro Ser Met Trp Asn Ser Gly Asp Ala Thr Leu Val His Ile
 325 330 335
 Asp Val Leu Pro Ala Tyr Glu Glu Arg Lys Tyr Val Pro Asp Leu Glu
 340 345 350
 Leu Val Gly Asp Ile Ala Ala Thr Leu Asn Leu Leu Ala Ser Arg Ile

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      355              360              365
Glu His Lys Leu Glu Leu Ser Gln Arg Ala Ser Glu Ile Leu Val Asp
370              375              380
Arg Gln His Gln Arg Asp Leu Leu Asp Arg Arg Gly Ala Ser Leu Asn
385              390              395              400
Gln Phe Ala Leu His Pro Leu Arg Ile Val Arg Ala Met Gln Asp Ile
      405              410              415
Val Asn Asn Asp Val Thr Leu Thr Val Asp Met Gly Ser Phe His Ile
      420              425              430
Trp Ile Ala Arg Tyr Leu Tyr Ser Phe Arg Ala Arg Gln Val Met Ile
      435              440              445
Ser Asn Gly Gln Gln Thr Met Gly Val Ala Leu Pro Trp Ala Ile Gly
      450              455              460
Ala Trp Leu Val Asn Pro Gly Arg Lys Val Val Ser Val Ser Gly Asp
465              470              475              480
Gly Gly Phe Leu Gln Ser Ser Met Glu Leu Glu Thr Ala Val Arg Leu
      485              490              495
Asn Ala Asn Ile Leu His Ile Ile Trp Val Asp Asn Ala Tyr Asn Met
      500              505              510
Val Ala Ile Gln Glu Glu Lys Lys Tyr Gln Arg Leu Ser Gly Val Glu
      515              520              525
Phe Gly Pro Val Asp Phe Lys Ala Tyr Ala Asp Ala Phe Gly Ala Lys
      530              535              540
Gly Phe Ala Val Glu Ser Ala Asp Ala Leu Glu Pro Thr Leu Arg Ala
545              550              555              560
Ala Met Asp Val Asp Gly Pro Ala Val Val Ala Ile Pro Val Asp Tyr
      565              570              575
Ser Asp Asn Pro Leu Leu Met Gly Gln Leu His Leu Ser Gln Ile Leu
      580              585              590

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<210> 9852

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 9852

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Pro Arg Pro Pro Arg Gly Ile Ser Arg Arg Trp Gly Ser Pro Leu Thr
1              5              10              15
Pro Ile Ala Arg Ala Ser Ser Lys Arg Arg Cys Gly Arg Lys Ser Thr
      20              25              30
Val Lys Ser Pro Arg Arg Arg Val Asn Arg Leu Ala Thr Gly Arg Lys
      35              40              45
Pro Leu Pro Asn Ala Leu Arg Leu Ala Val Cys Pro Ser Arg Lys Thr
      50              55              60
Trp Pro Pro Ala Ser Leu Thr Ser Pro Gly Arg Ile Pro Thr Thr
65              70              75              80

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<210> 9853

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 9853

```

Val Thr Ser Leu Phe Val Arg Phe Leu Thr Cys Tyr Asn Lys Leu Leu
1              5              10              15
Thr Phe Gln Gly Val Thr Ala Val Pro Glu Ile Asn Gln His Gly Gln
      20              25              30
Thr Val Asn Asp Ile Val Pro Asp Trp Lys Cys Ala Arg Ala Leu Thr
      35              40              45

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Arg Thr Leu Leu Thr Gly Gln Tyr Cys Arg Leu Glu Pro Leu Asp Ala
50 55 60
Asp Arg His Ser Ala Asp Leu Phe Glu Ala Tyr Ala Leu Gly Asp Asp
65 70 75 80
Ser Asp Trp Thr Trp Leu Ala Ser Thr Gln Pro Val Ser Val Glu Ala
85 90 95
Thr Ala His Trp Val Leu Gly Lys Val Leu Asp Asp Asp Leu Val Pro
100 105 110
Phe Ala Ile Ile Asp Leu Arg Thr Glu Lys Ala Val Gly Leu Val Ser
115 120 125
Tyr Met Ala Ile Glu Arg Phe Gln Gly Ser Val Glu Ile Gly His Val
130 135 140
Thr Trp Ser Arg Arg Met Lys Gly Thr Arg Val Gly Thr Glu Ala Val
145 150 155 160
Trp Leu Leu Leu Lys Asn Ala Phe Glu His Gln Tyr Arg Arg Leu Glu
165 170 175
Trp Lys Cys Asp Ser Met Asn Ile Ala Ser Arg Asn Ala Ala Glu Arg
180 185 190
Leu Gly Phe Val Trp Glu Gly Arg Leu Arg Gln Lys Leu Val Arg Lys
195 200 205
Gly Arg Asn Arg Asp Ser Asp Met Leu Ser Ile Ile Asp Gly Glu Trp
210 215 220
Pro Gln Arg Asp Ala Glu Leu Arg Ala Trp Leu Ala Ala Glu Asn Phe
225 230 235 240
Asp Gly Glu Gly Arg Gln Val Arg Arg Leu Glu Glu Phe Arg
245 250 255

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<210> 9854

<211> 731

<212> PRT

<213> Enterobacter cloacae

<400> 9854

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Glu Leu Ile Met Asn Asn Thr Thr Met His Lys Thr Leu Leu Ala Ile
1 5 10 15
Ala Ile Gly Ala Val Thr His Ser Ala Phe Ala Ala Asp Glu Lys Lys
20 25 30
Glu Asp Thr Ile Val Val Gln Ser Thr Ala Gly Ser Asp Phe Lys Pro
35 40 45
Gly Gly Asp Gln Leu Val Pro Ala Phe Leu Asp Gly Gln Val Ala Asn
50 55 60
Gly Gly Arg Met Gly Met Leu Gly Gln Gln Asn Ala Met Asp Val Pro
65 70 75 80
Phe Asn Ile Ile Ser Tyr Thr Ser Lys Leu Val Glu Asp Gln Gln Ala
85 90 95
Lys Thr Ile Ala Asp Val Val Ala Asn Asp Ala Gly Val Gln Phe Val
100 105 110
Gln Gly Tyr Gly Asn Ser Ala Glu Thr Phe Arg Ile Arg Gly Leu Lys
115 120 125
Phe Asp Gly Asp Asp Met Thr Phe Gly Gly Leu Ser Gly Val Leu Pro
130 135 140
Arg Gln Val Val Asp Ala Gln Met Val Asp Arg Ile Glu Ile Phe Lys
145 150 155 160
Gly Ala Asn Ser Leu Met Asn Gly Ala Ala Ser Ser Gly Val Gly Gly
165 170 175
Met Ile Asn Leu Glu Pro Lys His Ala Gly Asp Thr Pro Gln Ala Lys
180 185 190
Val Gly Val Asp Tyr Thr Ser Asp Ser Gln Ile Gly Thr Thr Leu Asp
195 200 205
Ala Gly Arg Arg Phe Gly Asp Asn Asp Gln Phe Gly Ala Arg Val Asn
210 215 220

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Leu	Val	His	Arg	Glu	Gly	Glu	Thr	Gly	Val	Pro	Asn	Asp	Arg	Arg	Arg	240
225					230											
Thr	Thr	Leu	Leu	Ser	Thr	Gly	Leu	Asp	Tyr	Lys	Gly	Asp	Arg	Phe	Arg	
				245					250					255		
Thr	Ser	Leu	Asp	Leu	Gly	Tyr	Gln	Lys	Lys	Thr	Phe	His	Gly	Ser	Pro	
			260					265					270			
Thr	Ser	Val	Asn	Ile	Ser	Ala	Val	Asp	Phe	Val	Pro	Glu	Pro	Pro	Lys	
		275				280					285					
Asn	Asp	Arg	Asn	Phe	Ser	Gln	Lys	Trp	Ala	Tyr	Ser	Asp	Ile	Glu	Asn	
		290				295					300					
Glu	Phe	Gly	Met	Trp	Arg	Ser	Glu	Tyr	Asp	Ile	Thr	Asp	Ser	Trp	Thr	
305					310				315						320	
Ala	Tyr	Thr	Gly	Leu	Gly	Ala	Gln	His	Ala	His	Glu	Glu	Gly	Ile	Tyr	
				325					330					335		
Ser	Ala	Pro	Lys	Leu	Leu	Asp	Lys	Ser	Gly	Asn	Ala	Val	Val	Ser	Arg	
			340					345					350			
Leu	Asp	Thr	Asn	Arg	Ile	Ser	Asp	Ser	Val	Ser	Gly	Met	Ala	Gly	Ile	
		355					360					365				
Arg	Gly	Asn	Phe	Thr	Thr	Gly	Phe	Val	Ser	His	Lys	Val	Asn	Val	Gly	
		370				375					380					
Tyr	Ser	Ala	Met	Thr	Lys	Asn	Glu	Lys	Ile	Ala	Trp	Lys	Met	Ser	Ala	
385					390					395					400	
Thr	Lys	Asp	Asn	Pro	Thr	Thr	Asn	Ile	Tyr	His	Asn	Thr	Gly	Val	Asp	
				405					410					415		
Met	Pro	Asp	Ser	Ser	Asn	Leu	Asn	Gly	Ser	Gly	Gly	Lys	Tyr	Ser	Asp	
			420					425					430			
Pro	Leu	Thr	Ser	Gly	Arg	Thr	Arg	Thr	Gln	Gly	Trp	Leu	Leu	Ser	Asp	
		435				440					445					
Thr	Leu	Gly	Val	Leu	Asp	Asp	Lys	Leu	Leu	Phe	Thr	Ala	Gly	Ala	Arg	
		450				455					460					
His	Gln	Lys	Val	Val	Ile	Arg	Gly	Tyr	Asn	Lys	Ile	Thr	Gly	Ala	Glu	
465					470					475					480	
Asn	Asp	Ala	Asp	Gly	Phe	Asp	Gly	Ser	Arg	Trp	Met	Pro	Thr	Tyr	Gly	
				485					490					495		
Val	Val	Tyr	Lys	Pro	Trp	Glu	Glu	Ile	Ser	Leu	Tyr	Ala	Asn	His	Thr	
			500					505					510			
Glu	Ala	Leu	Gln	Pro	Gly	Glu	Thr	Ala	Pro	Arg	Ser	Ala	Asn	Asn	Tyr	
		515					520					525				
Gly	Gln	Ser	Thr	Gly	Ile	Val	His	Ser	Lys	Gln	Asn	Glu	Val	Gly	Val	
		530				535					540					
Lys	Ala	Asp	Phe	Gly	Arg	Val	Gly	Gly	Ser	Leu	Ala	Leu	Phe	Glu	Ile	
545					550				555						560	
Lys	Met	Pro	Ser	Ala	Ile	Leu	Asp	Asp	Ser	Gly	His	Tyr	Gly	Leu	Asp	
				565					570					575		
Ala	Glu	Gln	Arg	Asn	Arg	Gly	Val	Glu	Leu	Asn	Val	Phe	Gly	Glu	Pro	
			580					585					590			
Met	Leu	Gly	Met	Arg	Leu	Asn	Ala	Ser	Ala	Thr	Trp	Leu	Gln	Ala	Glu	
		595				600						605				
Leu	Thr	Lys	Thr	Lys	Asn	Gly	Val	Asn	Gln	Gly	Asn	Asp	Ala	Ile	Gly	
		610				615					620					
Ile	Pro	Ser	Phe	Tyr	Ala	Val	Leu	Gly	Ala	Glu	Tyr	Asp	Ile	Lys	Pro	
625					630					635					640	
Ile	Glu	Gly	Leu	Thr	Ala	Thr	Ala	Arg	Val	Asn	His	Ser	Gly	Thr	Gln	
				645					650					655		
Tyr	Ala	Asp	Leu	Ala	Asn	Ser	Lys	Lys	Leu	Asp	Ser	Tyr	Thr	Thr	Leu	
			660					665					670			
Asp	Leu	Gly	Met	Arg	Tyr	Arg	Phe	Ala	Val	Asn	His	Asn	Glu	Asn	Gln	
		675						680				685				
Met	Thr	Val	Arg	Ala	Gly	Ile	Asp	Asn	Val	Thr	Asn	Glu	Asn	Tyr	Trp	
		690						695				700				
Ser	Ser	Val	Asp	Asp	Ser	Gly	Thr	Tyr	Ile	Thr	Gln	Gly	Glu	Pro	Arg	

705 710 715 720
 Thr Phe Lys Val Ser Val Gly Tyr Glu Phe
 725 730

<210> 9855
 <211> 163
 <212> PRT
 <213> Enterobacter cloacae

<400> 9855
 Gln Ala Val Thr Ala Met Asn Gly Thr Ile Thr Thr Trp Phe Lys Asp
 1 5 10 15
 Lys Gly Phe Gly Phe Ile Lys Asp Glu Asn Gly Asp Asn Arg Tyr Phe
 20 25 30
 His Val Ile Lys Val Ala Asn Pro Asp Leu Ile Lys Lys Asp Ala Ala
 35 40 45
 Val Thr Phe Glu Pro Thr Thr Asn Ser Lys Gly Leu Ser Ala Tyr Ala
 50 55 60
 Val Lys Val Ile Pro Glu Ser Lys His Leu Tyr Ile Ala Gly Glu Arg
 65 70 75 80
 Val Lys Leu Thr Ser Ile Lys Ser Phe Val Val Phe Ser Glu Glu Glu
 85 90 95
 Pro Val Asp Thr Lys Ile Asp Lys Glu Asn Ala Val Leu Ser Val Gly
 100 105 110
 Leu Leu Met Asn Ser Ile Lys Pro Lys Thr Glu Lys Lys Pro Gly Glu
 115 120 125
 Met Arg Thr Val Lys Lys Leu Ala Ile Thr Thr Phe Gln Asn Thr Thr
 130 135 140
 Leu Ile Phe Thr Glu Asp Glu Ile Asp Ile Asp Ala Thr Val Lys Leu
 145 150 155 160
 Leu Lys

<210> 9856
 <211> 310
 <212> PRT
 <213> Enterobacter cloacae

<400> 9856
 Cys Arg Leu Ser Lys Ile Lys Glu Ser Ala Arg Ala Met Lys Arg Pro
 1 5 10 15
 Asp Tyr Arg Thr Leu Gln Ala Leu Asp Ala Val Ile Arg Glu Arg Gly
 20 25 30
 Phe Glu Arg Ala Ala Gln Lys Leu Cys Ile Thr Gln Ser Ala Val Ser
 35 40 45
 Gln Arg Ile Lys Gln Leu Glu Asn Met Phe Gly Gln Pro Leu Leu Val
 50 55 60
 Arg Thr Val Pro Pro Arg Pro Thr Glu Gln Gly Gln Lys Leu Leu Ala
 65 70 75 80
 Leu Leu Arg Gln Val Glu Leu Leu Glu Asp Glu Trp Leu Gly Asp Glu
 85 90 95
 Gln Thr Gly Ser Thr Pro Leu Leu Leu Ser Leu Ala Val Asn Ala Asp
 100 105 110
 Ser Leu Ala Thr Trp Leu Leu Pro Ala Leu Ala Pro Val Leu Ala Asp
 115 120 125
 Ser Pro Ile Arg Leu Asn Leu Gln Val Glu Asp Glu Thr Arg Thr Gln
 130 135 140
 Glu Arg Leu Arg Arg Gly Glu Val Val Gly Ala Val Ser Ile Gln Pro
 145 150 155 160
 Gln Ala Leu Pro Ser Cys Leu Val Asp Gln Leu Gly Ala Leu Asp Tyr
 165 170 175

Leu Phe Val Gly Ser Lys Ala Phe Ala Glu Arg Tyr Phe Pro Asn Gly
 180 185 190
 Val Thr Arg Ala Ala Leu Leu Lys Ala Pro Ala Val Ala Phe Asp His
 195 200 205
 Leu Asp Asp Met His Gln Ala Phe Leu Gln Gln Asn Phe Asp Leu Pro
 210 215 220
 Pro Gly Ser Val Pro Cys His Ile Val Asn Ser Ser Glu Ala Phe Val
 225 230 235 240
 Gln Leu Ala Arg Gln Gly Thr Thr Cys Cys Met Ile Pro His Leu Gln
 245 250 255
 Ile Glu Lys Glu Leu Lys Ser Gly Glu Leu Ile Asp Leu Thr Pro Gly
 260 265 270
 Leu Tyr Gln Arg Arg Met Leu Tyr Trp His Arg Phe Ala Pro Glu Ser
 275 280 285
 Arg Met Met Arg Asn Val Thr Asp Ala Leu Leu Ala Phe Gly His Lys
 290 295 300
 Val Leu Arg Gln Asp
 305 310

<210> 9857
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 9857
 Arg Ala Ser Ala Ser Pro Ile Thr Glu Pro Leu Pro Gly Arg Thr Leu
 1 5 10 15
 Ser Ser Pro Ala Gly Ser Pro Ala Cys Leu Lys Ile Arg Ala Ser Ser
 20 25 30
 Ser Ala Ile Ser Gly Val Ala Ser Ala Gly Leu Arg Ile Thr Ala Phe
 35 40 45
 Pro Ala Ala Ile Ala Gly Ala Thr Phe Cys Ile Ser Leu Ala Ile Gly
 50 55 60
 Glu Phe His Gly Val Met Ala Ala Thr Thr Pro Arg Gly Ser
 65 70 75

<210> 9858
 <211> 123
 <212> PRT
 <213> Enterobacter cloacae

<400> 9858
 Cys Arg Ala Arg Arg Gly Ser Pro Asp Gly Cys Cys Thr Gly Ser Arg
 1 5 10 15
 Arg Ala Val Ala Arg Ser Pro Ala Gly Arg Pro Ala Pro Arg Pro Ala
 20 25 30
 Arg Arg Cys Thr Gln Ser Gln Asp Ala Ala Arg Ser Cys Pro Ala Lys
 35 40 45
 Arg Tyr Trp Cys Ala Cys Cys Ala Pro Glu Ser Pro Cys Thr Pro Ala
 50 55 60
 Ser Ala Pro Arg Asp Arg Arg Ser Pro Ser Ala Tyr Pro Pro Ala Gly
 65 70 75 80
 Ala Ala Arg Gln Lys Ser Asp Arg Asp Ala Ala Arg Gln Arg Pro Thr
 85 90 95
 Ala Ala Val Asn Arg Ala Pro Ala Pro Ala Pro Asp Thr Ser Leu Pro
 100 105 110
 Asp Arg Leu Pro Ser Ser Pro Tyr Leu Ser
 115 120

<210> 9859
 <211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 9859

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Leu His Thr Gly Thr Thr Phe Val Thr Leu Arg Ala Arg Phe Asp Thr
1      5      10      15
Glu Cys Lys Met Ser Arg Asn Val Ser Leu Ala Val Ala Phe Leu Ala
20      25      30
Thr Ala Leu Ser Gly His Ala Leu Ala Asp Gly Ile His Ser Phe Ser
35      40      45
Gln Ala Lys Thr Ala Gly Val Lys Ile Asn Ala Asp Val Pro Gly Asp
50      55      60
Phe Tyr Cys Gly Cys Lys Ile Asn Trp Gln Gly Lys Lys Gly Val Val
65      70      75      80
Asp Leu Gly Ser Cys Gly Tyr Lys Val Arg Lys Asn Glu Asn Arg Ala
85      90      95
Ser Arg Ile Glu Trp Glu His Val Val Pro Ala Trp Gln Phe Gly His
100     105     110
Gln Arg Gln Cys Trp Gln Asp Gly Gly Arg Lys Asn Cys Ala Lys Asp
115     120     125
Pro Val Tyr Arg Gln Met Glu Ser Asp Met His Asn Leu Gln Pro Ala
130     135     140
Val Gly Glu Val Asn Gly Asp Arg Gly Asn Phe Met Tyr Ser Gln Trp
145     150     155     160
Asn Gly Gly Glu Gly Gln Tyr Gly Gln Cys Ala Met Lys Val Asp Phe
165     170     175
Lys Glu Lys Val Ala Glu Pro Pro Ala Arg Ala Arg Gly Ser Ile Ala
180     185     190
Arg Thr Tyr Phe Tyr Met Arg Asp Arg Tyr Asp Leu Asn Leu Ser Arg
195     200     205
Gln Gln Thr Gln Leu Phe Asn Ala Trp Asp Lys Leu Tyr Pro Val Thr
210     215     220
Asp Trp Glu Cys Gln Arg Asp Glu Arg Ile Ala Lys Val Gln Gly Asn
225     230     235     240
His Asn Pro Tyr Val Gln Arg Ala Cys Gln Ala Gln Lys Ser
245     250     255

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<210> 9860

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 9860

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His Met Glu Phe Leu Thr Met Arg Ile Pro Arg Ile Tyr His Pro Glu
1      5      10      15
Leu Ile Thr Pro Gly Gly Glu Ile Ala Leu Ser Asp Asp Ala Ala Asn
20      25      30
His Val Gly Arg Val Leu Arg Met Gly Ala Gly Gln Ala Ile Gln Leu
35      40      45
Phe Asp Gly Ser Asn Gln Val Phe Asp Ala Glu Ile Thr Arg Ala Asp
50      55      60
Lys Lys Ser Val His Val Lys Val Leu Arg Gly Asp Val Asp Asp Arg
65      70      75      80
Glu Ser Pro Leu His Ile His Leu Gly Gln Val Met Ser Arg Gly Glu
85      90      95
Lys Met Glu Phe Thr Ile Gln Lys Ser Ile Glu Leu Gly Val Ser Leu
100     105     110
Ile Thr Pro Leu Phe Ser Glu Arg Cys Gly Val Lys Leu Asp Ala Glu
115     120     125
Arg Leu Asn Lys Lys Ile Gln Gln Trp Gln Lys Ile Ala Ile Ala Ala
130     135     140

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Cys Glu Gln Ser Gly Arg Asn Arg Ile Pro Glu Ile Arg Pro Ala Met
 145 150 165 170 175 160
 Asp Leu Glu Asp Trp Cys Ala Glu Glu Ser Gly Leu Lys Leu Asn
 180 185 190 195
 Leu His Pro Arg Ala Ser Ala Ser Ile Asn Thr Leu Pro Leu Pro Val
 200 205
 Glu Arg Val Arg Leu Leu Ile Gly Pro Glu Gly Gly Leu Ser Ala Asp
 210 215 220
 Glu Ile Ala Met Thr Ala Arg Tyr Gln Phe Thr Asp Ile Leu Leu Gly
 225 230 235 240
 Pro Arg Val Leu Arg Thr Glu Thr Thr Ala Leu Thr Ala Ile Thr Ala
 245 250
 Leu Gln Val Arg Phe Gly Asp Leu Gly

<210> 9861

<211> 320

<212> PRT

<213> Enterobacter cloacae

<400> 9861

Pro Glu Lys Lys Met Ile Lys Leu Gly Ile Val Met Asp Pro Ile Ala
 1 5 10 15
 Asn Ile Asn Ile Lys Lys Asp Ser Ser Phe Ala Met Leu Leu Glu Ala
 20 25 30
 Gln Arg Arg Gly Tyr Glu Leu His Tyr Met Glu Met Asn Asp Leu Tyr
 35 40 45
 Leu Ile Asn Gly Glu Ala Arg Ala Arg Thr Arg Ile Val Asn Val Glu
 50 55 60
 Gln Asn Tyr Glu Lys Trp Tyr Glu Phe Gly Thr Glu Gln Asp Ile Ala
 65 70 75 80
 Leu Ala Asp Leu Asn Val Ile Leu Met Arg Lys Asp Pro Pro Phe Asp
 85 90 95
 Thr Glu Tyr Ile Tyr Ser Thr Tyr Ile Leu Glu Arg Ala Glu Glu Lys
 100 105 110
 Gly Thr Leu Ile Val Asn Lys Pro Gln Ser Leu Arg Asp Cys Asn Glu
 115 120 125
 Lys Leu Tyr Thr Ala Trp Phe Ser Asp Leu Thr Pro Glu Thr Leu Val
 130 135 140
 Thr Arg Ser Lys Thr Gln Leu Lys Glu Phe Trp Gln Lys His Gly Asp
 145 150 155 160
 Ile Ile Met Lys Pro Leu Asp Gly Met Gly Gly Ala Ser Ile Phe Arg
 165 170 175
 Val Lys Glu Gly Asp Pro Asn Ile Gly Val Ile Ala Glu Thr Leu Thr
 180 185 190
 Glu Leu Gly Thr Arg Tyr Cys Met Ala Gln Asn Tyr Leu Pro Ala Ile
 195 200 205
 Lys Asp Gly Asp Lys Arg Val Leu Val Val Asp Gly Glu Pro Val Pro
 210 215 220
 Tyr Cys Leu Ala Arg Ile Pro Gln Gly Gly Glu Thr Arg Gly Asn Leu
 225 230 235 240
 Ala Ala Gly Gly Arg Gly Glu Pro Arg Pro Leu Ser Glu Ser Asp Trp
 245 250 255
 Glu Ile Ala Arg Arg Val Gly Pro Thr Leu Lys Ala Lys Gly Leu Ile
 260 265 270
 Phe Val Gly Leu Asp Ile Ile Gly Asp Arg Leu Thr Glu Val Asn Val
 275 280 285
 Thr Ser Pro Thr Cys Ile Arg Glu Ile Glu Ala Glu Phe Pro Ile Ser
 290 295 300
 Ile Thr Gly Met Leu Met Asp Ala Ile Glu Lys Arg Leu Gln Lys
 305 310 315 320

<210> 9862
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 9862
 Leu Arg Thr Gly Ser Phe Ser Cys Ala Gly Lys Val Ser Thr Arg Arg
 1 5 10 15
 Ser Ile Ala Cys Ala Ala Pro Arg Val Cys Ser Val Ala Asn Thr Arg
 20 25 30
 Trp Pro Val Ser Ala Ala Val Ser Ala Arg Arg Ile Val Ser Leu Ser
 35 40 45
 Arg Ser Ser Pro Ser Arg Ile Thr Ser Gly Ser Ser Arg Ser Ala Leu
 50 55 60
 Arg Arg Ala Ser Ala Lys Asp Gly Leu Cys Arg Pro Ile Ser Arg Cys
 65 70 75 80
 Trp Ile Arg Gln Arg Ser Leu Trp Tyr Ile Asn Ser Thr Gly Ser Ser
 85 90 95
 Arg Val Arg Ile Cys Pro Ser Val Trp
 100 105

<210> 9863
 <211> 109
 <212> PRT
 <213> Enterobacter cloacae

<400> 9863
 Tyr Ala Ala Ala Gly Ala Val Asp Gly Val Met Ser Ala Val Ser Pro
 1 5 10 15
 Cys Ala Asp Gly Leu Val Leu Arg Leu Tyr Ile Gln Pro Lys Ala Ser
 20 25 30
 Arg Asp Ser Ile Val Gly Leu His Gly Asp Glu Leu Lys Val Ala Ile
 35 40 45
 Thr Ala Pro Pro Val Asp Gly Gln Ala Asn Ala His Leu Thr Lys Tyr
 50 55 60
 Leu Val Lys Gln Phe Arg Val Ala Lys Ser Gln Val Ile Ile Glu Lys
 65 70 75 80
 Gly Glu Leu Gly Arg His Lys Gln Val Lys Ile Leu Asn Pro Gln Ser
 85 90 95
 Ile Pro Thr Glu Val Ala Ala Leu Thr Glu Gln Asp
 100 105

<210> 9864
 <211> 199
 <212> PRT
 <213> Enterobacter cloacae

<400> 9864
 Thr Met Gln Lys Val Val Leu Ala Thr Gly Asn Ala Gly Lys Val Arg
 1 5 10 15
 Glu Leu Ala Ser Leu Leu Asn Asp Phe Gly Leu Asp Val Val Ala Gln
 20 25 30
 Thr Glu Leu Gly Val Asp Ser Ala Glu Thr Gly Leu Thr Phe Ile
 35 40 45
 Glu Asn Ala Ile Leu Lys Ala Arg His Ala Ala Gln Val Thr Gly Leu
 50 55 60
 Pro Ala Ile Ala Asp Asp Ser Gly Leu Ala Val Asp Phe Leu Gly Gly
 65 70 75 80
 Ala Pro Gly Ile Tyr Ser Ala Arg Tyr Ser Gly Pro Asp Ala Thr Asp
 85 90 95

Gln Gln Asn Leu Glu Lys Leu Leu Val Ala Leu Lys Asp Val Pro Asp
 100 105 110
 Glu Gln Arg Thr Ala Gln Phe His Cys Val Leu Val Tyr Met Arg His
 115 120 125
 Ala Glu Asp Pro Thr Pro Ile Val Cys His Gly Ser Trp Pro Gly Val
 130 135 140
 Ile Thr Arg Glu Ala Ala Gly Asn Gly Gly Phe Gly Tyr Asp Pro Ile
 145 150 155 160
 Phe Phe Val Pro Thr Glu Gly Lys Thr Ala Ala Glu Leu Thr Arg Glu
 165 170 175
 Glu Lys Ser Ala Ile Ser His Arg Gly Arg Ala Leu Lys Leu Leu Leu
 180 185 190
 Glu Ala Leu Arg Asn Gly
 195

<210> 9865

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 9865

Gly Lys Gly Trp Gln Ser Val Gly Met Gln Thr Ile Arg Ser Tyr Ala
 1 5 10 15
 Lys Gln Leu Arg Arg Glu Leu Thr Gln Glu Glu Arg Arg Leu Trp Tyr
 20 25 30
 Leu Leu Arg Ser Arg Arg Phe Glu Asn Tyr Lys Phe Arg Arg Gln His
 35 40 45
 Pro Val Gly Asn Tyr Ile Leu Asp Phe Ala Cys Cys Ala Ala Arg Leu
 50 55 60
 Ala Val Glu Leu Asp Gly Gly Gln His Asp Glu Asn Gln Glu Tyr Asp
 65 70 75 80
 Arg Gln Arg Thr Leu Trp Leu Asn His Lys Asp Trp His Val Ile Arg
 85 90 95
 Phe Trp Asn Asn Glu Leu Trp Asn Asn Glu Glu Ala Val Leu Glu Arg
 100 105 110
 Ile Leu Glu Thr Leu Gln Ala Leu Gln Pro Ser Pro Arg Pro Ser Pro
 115 120 125

<210> 9866

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 9866

Leu Ser Glu Ser Met Thr Met Gln Ala Ser Gln Phe Ser Ala Gln Val
 1 5 10 15
 Leu Asp Trp Tyr Asp Lys Tyr Gly Arg Lys Thr Leu Pro Trp Gln Ile
 20 25 30
 Glu Lys Thr Pro Tyr Lys Val Trp Leu Ser Glu Val Met Leu Gln Gln
 35 40 45
 Thr Gln Val Ala Thr Val Ile Pro Tyr Phe Glu Arg Phe Met Ala Arg
 50 55 60
 Phe Pro Thr Val Thr Asp Leu Ala Asn Ala Pro Leu Asp Glu Val Leu
 65 70 75 80
 His Leu Trp Thr Gly Leu Gly Tyr Tyr Ala Arg Ala Arg Asn Leu His
 85 90 95
 Lys Ala Ala Gln Gln Val Ala Thr Arg His Asn Gly Lys Phe Pro Glu
 100 105 110
 Thr Phe Asp Glu Val Ala Asp Leu Pro Gly Val Gly Arg Ser Thr Ala

115 120 125
 Gly Ala Ile Leu Ser Leu Ser Leu Gly Lys His Phe Pro Ile Leu Asp
 130 135 140
 Gly Asn Val Lys Arg Val Leu Ala Arg Cys Tyr Ala Val Asp Gly Trp
 145 150 155 160
 Pro Gly Lys Lys Glu Val Glu Lys Arg Leu Trp Glu Ile Ser Glu Ala
 165 170 175
 Val Thr Pro Ala Lys Gly Val Glu Arg Phe Asn Gln Ala Met Met Asp
 180 185 190
 Leu Gly Ala Met Val Cys Thr Arg Ser Lys Pro Lys Cys Glu Leu Cys
 195 200 205
 Pro Val Asn Asn Leu Cys Val Ala Tyr Ala Asn His Thr Trp Ala Gln
 210 215 220
 Tyr Pro Gly Lys Lys Pro Lys Gln Thr Leu Pro Glu Arg Thr Gly Tyr
 225 230 235 240
 Met Leu Leu Met Gln His Gly Asp Glu Val Phe Leu Ala Gln Arg Pro
 245 250 255
 Pro Ser Gly Leu Trp Gly Gly Leu Tyr Cys Phe Pro Gln Phe Glu Asp
 260 265 270
 Glu Ala Ser Leu Arg Ala Trp Leu Glu Gln Arg Gly Ile Ala Ala Glu
 275 280 285
 Thr Leu Thr Gln Leu Asn Ala Phe Arg His Thr Phe Ser His Phe His
 290 295 300
 Leu Asp Ile Val Pro Met Trp Leu Pro Val Ser Ser Phe Thr Ser Cys
 305 310 315 320
 Met Asp Glu Gly Thr Ala Leu Trp Tyr Asn Leu Ala Gln Pro Pro Ser
 325 330 335
 Val Gly Leu Ala Ala Pro Val Glu Arg Leu Leu Gln Gln Leu Arg Val
 340 345 350
 Gly Ala Met Val
 355

<210> 9867

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 9867

Thr Ser Cys Ser Arg Val Lys Thr Ser Thr Ser Lys Ala Ile Arg His
 1 5 10 15
 Arg Lys Asn Asn Asn Ala Gln Leu Leu Pro Gly Cys Ala Ala Leu Ala
 20 25 30
 Arg Ala Tyr Gly Phe Val Gly Arg Val Ser Ala Ala Pro Pro Gly Asn
 35 40 45
 Ser Asn Pro Lys Ala Asn Thr Thr Arg Thr Pro Gly Met Met Lys Lys
 50 55 60
 Leu Leu Ala Leu Ala Leu Val Ala Pro Leu Leu Val Ser Cys Ser Ser
 65 70 75 80
 Lys Lys Gly Asp Glu Tyr Asn Glu Ala Trp Val Lys Asp Thr Asn Gly
 85 90 95
 Phe Asp Ile Leu Met Gly Gln Phe Ala His Asn Ile Glu Asn Ile Trp
 100 105 110
 Gly Phe Asn Glu Val Leu Ile Ala Gly Pro Lys Asp Tyr Val Lys Tyr
 115 120 125
 Thr Asp Ala Tyr Gln Thr Arg Ser His Ile Asn Phe Asp Asp Gly Thr
 130 135 140
 Ile Thr Val Glu Thr Ile Ala Gly Thr Glu Pro Ala Ala His Leu Arg
 145 150 155 160
 Gln Ala Ile Ile Lys Thr Leu Leu Met Gly Asp Asp Pro Gly Ser Ile
 165 170 175
 Asp Leu Tyr Ser Asp Ala Asp Asp Ile Thr Ile Ser Lys Glu Pro Phe

180 185 190
 Leu Tyr Gly Gln Val Val Asp Gln Thr Gly Gln Pro Ile Arg Trp Glu
 195 200 205
 Gly Arg Ala Thr Lys Phe Ala Asp Tyr Leu Leu Gln Thr Arg Leu Lys
 210 215 220
 Ser Arg Thr Asn Gly Leu Lys Val Ile Tyr Ser Val Thr Ile Asn Leu
 225 230 235 240
 Val Pro Asn His Leu Asp Lys Arg Ala His Lys Tyr Leu Gly Met Val
 245 250 255
 Arg Gln Ala Ser Arg Lys Tyr Gly Val Asp Glu Ser Leu Ile Leu Ala
 260 265 270
 Ile Met Gln Thr Glu Ser Ser Phe Asn Pro Tyr Ala Val Ser Arg Ser
 275 280 285
 Asp Ala Leu Gly Leu Met Gln Val Val Gln His Ser Ala Gly Lys Asp
 290 295 300
 Val Phe Arg Ala Gln Gly Lys Ser Gly Thr Pro Ser Arg Arg Tyr Leu
 305 310 315 320
 Phe Asp Pro Gln Ser Asn Ile Asp Thr Gly Thr Ala Tyr Leu Ala Met
 325 330 335
 Leu Asn Asn Val Tyr Leu Gly Gly Ile Asp Asn Pro Thr Ser Arg Arg
 340 345 350
 Tyr Ala Val Ile Thr Ala Tyr Asn Gly Gly Ala Ser Ser Val Met Arg
 355 360 365
 Val Leu Ser Asn Asp Lys Val Gln Ala Ala Asn Ile Ile Asn Ser Met
 370 375 380
 Ala Pro Gly Asp Val Tyr Asp Thr Leu Thr Thr Arg His Pro Cys Ala
 385 390 395 400
 Glu Ser Arg Arg Tyr Met Tyr Lys Val Asn Thr Ala Gln Lys Asn Tyr
 405 410 415
 Arg Arg Arg
 420

<210> 9868

<211> 561

<212> PRT

<213> Enterobacter cloacae

<400> 9868

Lys Met Ile Tyr Ser Ala Asp Leu Leu Ile Ser Arg Val Ile Val Met
 1 5 10 15
 Lys Val Ser Phe Gln Ile Lys Leu Phe Ile Ser Leu Val Ala Phe Phe
 20 25 30
 Ser Val Leu Phe Ala Leu Leu Gly Gly Tyr Tyr Tyr Val Asp Val Gly
 35 40 45
 Arg Gln Leu Tyr Gln Glu Met Ser Ala Arg Ala Lys Ile Gln Ala Glu
 50 55 60
 Glu Ile Ala Leu Ile Pro Thr Leu Arg Lys Glu Val Glu Gln Lys Asp
 65 70 75 80
 Ile Gln Gly Ile His Asp Phe Met Gln Lys Ile Ala Ala Arg Ser Asp
 85 90 95
 Ala Ser Phe Ile Val Ile Gly Asp Asn Lys Gly Leu His Leu Phe His
 100 105 110
 Ser Val Phe Ala Asp Arg Val Gly Lys Thr Leu Val Gly Gly Asp Asn
 115 120 125
 Asp Glu Val Leu His Gly Lys Ser Thr Ile Thr Ile Arg Lys Gly Gly
 130 135 140
 Leu Gly Ile Ser Leu Arg Ser Lys Ala Pro Ile Phe Asn Asp Ala Gly
 145 150 155 160
 Gln Val Val Gly Ile Val Ser Val Gly Tyr Leu Thr Ser Tyr Leu Asp
 165 170 175
 Thr Ile Thr Val Ser Lys Val Val Asn Ile Leu Ile Ala Ala Val Leu

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<210> 9869
<211> 213
<212> PRT
<213> Enterobacter cloacae
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<400> 9869
Glu Ile Leu Ser Ala Ile Pro Asn Arg Ser Ile Ala Ala Arg Val Ser
1 5 10 15
Pro Pro Pro Ala Ile Glu Asn Ala Ser Leu Ser Ala Ile Ala Leu Ala
20 25 30
Thr Ile Ser Val Pro Leu Arg Lys Phe Gly Asn Ser Asn Thr Pro Thr


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      35          40          45
Gly Pro Phe His Arg Ile Val Phe Ala Phe Leu Arg Ile Ser Ala Ser
  50          55          60
Phe Cys Ala Glu Thr Ser Pro Arg Ser Arg Ile Cys Ser Ser Ser Leu
  65          70          75          80
Met Ser Leu Thr Asp Phe Arg Val Ala Val Ala Val Ser Glu Asn Ser
      85          90          95
Val Ala Thr Arg Thr Ser Val Gly Thr Gly Ile Ser Gln Val Pro Ser
     100          105          110
Arg Arg Leu Ala Ser Ser Thr Arg Ser Ala Ser Tyr Arg Asp Leu Pro
     115          120          125
Thr Leu Trp Pro Cys Ala Ala Thr Lys Val Phe Ala Ile Pro Pro Pro
     130          135          140
Thr Ile Ser Trp Ser Ala Ile Leu Asp Arg Glu Ser Ser Thr Val Ser
     145          150          155          160
Leu Val Glu Thr Leu Glu Pro Pro Thr Ile Ala Thr Ile Gly Arg Ala
      165          170          175
Gly Ser Phe Ser Ala Leu Pro Ser Ala Ser Ser Ser Ala Ser Ser
     180          185          190
Gly Pro Ala Gln Ala Thr Ser Ala Asn Leu Pro Ile Pro Trp Val Asp
     195          200          205
Ala Cys Ala Arg
     210

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<210> 9870

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 9870

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Ile Phe Leu Ile Leu Ser Pro Thr Pro Ala Ser Leu Thr Val His Phe
  1          5          10          15
Ser Glu Leu Ile Gln Ile Asn Glu Tyr Gly Ser Asn Ile Met Lys Met
     20          25          30
Arg Ala Ile Gly Leu Ala Val Gly Thr Thr Leu Leu Leu Ser Gly Cys
     35          40          45
Gln Asn Met Asp Ser Asn Gly Leu Met Thr Ser Gly Ala Glu Ala Phe
     50          55          60
Gln Ala Tyr Ser Leu Ser Asp Ala Gln Val Lys Ala Leu Ser Asp Glu
     65          70          75          80
Ala Cys Lys Asp Met Asp Gly Lys Ala Thr Leu Ala Pro Ala Asn Ser
     85          90          95
Thr Tyr Thr Gln Arg Leu Asn Lys Ile Ala Ser Ala Leu Gly Asp Asn
     100          105          110
Ile Asn Gly Gln Pro Val Asn Tyr Lys Val Tyr Met Ala Lys Asp Val
     115          120          125
Asn Ala Phe Ala Met Ala Asn Gly Cys Ile Arg Val Tyr Ser Gly Leu
     130          135          140
Met Asp Met Met Thr Asp Asn Glu Val Glu Ala Val Ile Gly His Glu
     145          150          155          160
Met Gly His Val Ala Leu Gly His Val Lys Lys Gly Met Gln Val Ala
     165          170          175
Leu Gly Thr Asn Ala Val Arg Ala Ala Ala Ser Ala Gly Gly Ile
     180          185          190
Val Gly Ser Leu Ser Gln Ser Gln Leu Gly Asp Val Gly Glu Lys Leu
     195          200          205
Val Asn Ser Gln Phe Ser Gln Arg Gln Glu Ser Glu Ala Asp Asp Tyr
     210          215          220
Ser Tyr Asp Leu Leu Arg Lys Arg Gly Ile Asn Pro Ser Gly Leu Ala
     225          230          235          240
Thr Ser Phe Glu Lys Leu Ala Lys Leu Glu Glu Gly Arg Gln Ser Ser

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<210> 9871
<211> 438
<212> PRT
<213> Enterobacter cloacae
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400> 9871																
Phe	Ile	Phe	Thr	Lys	Gln	Arg	Val	Ser	Gln	Val	Asn	His	Phe	Ser	Ser	
1				5				10						15		
Val	Thr	Ile	Thr	Leu	Met	Lys	Asn	Ile	Ser	Tyr	Lys	Lys	Arg	Lys	Ala	
			20					25					30			
Asp	Met	Met	Thr	Ala	Arg	Trp	Gln	Gly	Thr	Ile	Ala	Leu	Leu	Leu	Leu	
			35				40					45				
Ile	Ile	Ile	Ser	Tyr	Val	Asp	Arg	Val	Asn	Ile	Ser	Val	Met	Ile	Leu	
						55					60					
Asn	Pro	Glu	Phe	Ala	Glu	His	Phe	Gln	Leu	Asn	Glu	Asn	Arg	Met	Leu	
65					70					75				80		
Gln	Gly	Met	Leu	Met	Thr	Cys	Phe	Leu	Leu	Gly	Tyr	Gly	Phe	Ser	Ala	
				85					90					95		
Leu	Leu	Leu	Thr	Pro	Val	Ile	Glu	Ser	Lys	Leu	His	Tyr	Arg	Gln	Gly	
			100					105					110			
Leu	Leu	Ser	Ser	Ile	Ala	Ile	Trp	Ala	Ala	Val	Cys	Ala	Val	Ser	Pro	
			115				120					125				
Leu	Leu	Gly	Ser	Leu	Thr	Gly	Met	Leu	Ile	Ala	Arg	Val	Ile	Leu	Gly	
130					135					140						
Ile	Ala	Glu	Gly	Pro	Leu	Phe	Ser	Leu	Lys	Thr	Arg	Phe	Ile	Ser	Asp	
145					150					155					160	
Asn	Phe	Ser	Ala	Gln	Glu	Ile	Gly	Lys	Pro	Asn	Ala	Val	Thr	Ala	Leu	
				165				170						175		
Gly	Val	Ser	Leu	Gly	Leu	Ala	Val	Gly	Phe	Pro	Leu	Val	Thr	Trp	Leu	
			180					185					190			
Met	Ser	His	Leu	Gly	Trp	Ala	Gly	Ser	Phe	Tyr	Thr	Leu	Ala	Ala	Ile	
			195				200					205				
Asn	Leu	Leu	Leu	Gly	Gly	Ser	Leu	Ile	Trp	Arg	Phe	Leu	Pro	Ala	Pro	
					215					220						
Arg	Lys	Leu	Pro	Thr	Ala	Lys	Lys	Pro	Gly	Phe	Val	His	Thr	Phe	Thr	
225					230					235					240	
Leu	Ala	Trp	Gln	Thr	Pro	Leu	Leu	Gly	Trp	Ile	Met	Val	Val	Glu	Ile	
				245					250					255		
Ala	Thr	Leu	Ser	Tyr	Leu	Trp	Gly	Ser	Ser	Ala	Met	Leu	Pro	Ala	Trp	
			260					265					270			
Leu	Arg	Asp	Glu	His	His	Phe	Ser	Leu	His	Ala	Thr	Gly	Trp	Leu	Ala	
			275				280					285				
Ala	Ile	Pro	Phe	Leu	Leu	Ser	Leu	Gly	Ser	Lys	Phe	Leu	Gly	Gly	Val	
290					295					300						
Leu	Leu	Asp	Lys	Met	Arg	Pro	Glu	Gln	Ala	Pro	Met	Leu	Phe	Val	Val	
305					310					315					320	
Gly	Gly	Ala	Met	Thr	Ala	Leu	Ser	Val	Ala	Ala	Leu	Met	Leu	Ser	His	
				325				330						335		
Gln	Pro	Ala														

```

385              390              395              400
Val Gly Ser Val Ser Ser Gly Phe Ser Val Leu Val Val Ser Gln Val
              405              410              415
Val Thr Leu Leu Ala Gly Gly Met Leu Leu Leu Arg Met Arg Arg Ala
              420              425              430
Ala Ala Ile Ser Ala
              435

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<210> 9872
<211> 232
<212> PRT
<213> Enterobacter cloacae

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<400> 9872
Cys Gln Ala Ala Asp His Arg Arg Thr Gly Thr Arg Cys Glu Cys Arg
1              5              10              15
Ile Gln Ala Val Asp Val Glu Gly Gln Ile Asp Arg His Val Ala Asp
              20              25              30
Asp Leu Leu Asn Leu Ser Gln Asn Ile Val His Ala Ala Ile Val His
              35              40              45
Leu Ala Arg Val Glu Tyr Gly Glu Ala Val Val Phe Val Glu Leu Gly
              50              55              60
Ala Asp Ala Asp Leu His Gly Val Val Arg Ile Asp Gln Ala Phe Leu
              65              70              75              80
Arg Arg Arg Val Glu His Gly Ala Val Val Glu Leu Thr Ala Val Arg
              85              90              95
Val Gly Val Gly Val Arg Ile Glu Val His Gln Arg His Phe Thr Glu
              100              105              110
Val Leu Arg Val Gly Ala Gln Gln Arg Gln Gly His Glu Val Val Thr
              115              120              125
Ala Glu Gly Glu His Ala Phe Thr Gly Arg Gln Gln Leu Leu Gly Val
              130              135              140
Arg Leu Gln Phe Phe Ala His Leu Thr Arg Val Ala Glu Gly Val His
              145              150              155              160
Gln Ile Ala Ala Val His His Val Gln Thr Leu Ala His Val Glu Val
              165              170              175
Pro Arg Glu Ala Val Val Leu Pro Gly Gln Val Ser Gly Asn Leu Thr
              180              185              190
Asp Arg Arg Arg Ala Met Thr Thr Thr Arg Ala Thr Gly Arg Cys His
              195              200              205
Val Glu Arg Tyr Ala Gly Asp His Pro Val Arg Ile Ala Val Val Arg
              210              215              220
Leu Glu Val His Arg Lys Ala
              225              230

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<210> 9873
<211> 475
<212> PRT
<213> Enterobacter cloacae

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<400> 9873
Lys Leu Ile Thr Gln Leu Glu Gly Ile Met Pro Asp Asn Asn Lys Gln
1              5              10              15
Gly Arg Thr Ser Asn Lys Ala Met Thr Phe Val Cys Phe Leu Ala
              20              25              30
Ala Leu Ala Gly Leu Leu Phe Gly Leu Asp Ile Gly Val Ile Ala Gly
              35              40              45
Ala Leu Pro Phe Ile Thr Asp Glu Phe Gln Ile Ser Ala His Thr Gln
              50              55              60
Glu Trp Val Val Ser Ser Met Met Phe Gly Ala Ala Val Gly Ala Val
              65              70              75              80

```

Gly Ser Gly Trp Leu Ser Phe Lys Leu Gly Arg Lys Lys Ser Leu Met
 85 90
 Ile Gly Ala Ile Leu Phe Val Ala Gly Ser Leu Phe Ser Ala Ala Ala
 100 105
 Pro Asn Val Glu Val Leu Ile Ile Ser Arg Val Leu Leu Gly Leu Ala
 115 120 125
 Val Gly Val Ala Ser Tyr Thr Ala Pro Leu Tyr Leu Ser Glu Ile Ala
 130 135 140
 Pro Glu Lys Ile Arg Gly Ser Met Ile Ser Met Tyr Gln Leu Met Ile
 145 150 155 160
 Thr Ile Gly Ile Leu Gly Ala Tyr Leu Ser Asp Thr Ala Phe Ser Tyr
 165 170 175
 Ser Gly Ala Trp Arg Trp Met Leu Gly Val Ile Ile Ile Pro Ala Ile
 180 185 190
 Leu Leu Leu Ile Gly Val Phe Phe Leu Pro Asp Ser Pro Arg Trp Phe
 195 200 205
 Ala Ala Lys Arg Arg Phe His Asp Ala Glu Arg Val Leu Leu Arg Leu
 210 215 220
 Arg Asp Thr Ser Ala Glu Ala Lys Asn Glu Leu Glu Glu Ile Arg Glu
 225 230 235 240
 Ser Leu Lys Val Lys Gln Ser Gly Trp Ala Leu Phe Lys Glu Asn Ser
 245 250 255
 Asn Phe Arg Arg Ala Val Phe Leu Gly Val Leu Leu Gln Ile Met Gln
 260 265 270
 Gln Phe Thr Gly Met Asn Val Ile Met Tyr Tyr Ala Pro Lys Ile Phe
 275 280 285
 Glu Leu Ala Gly Tyr Thr Asn Thr Thr Glu Gln Met Trp Gly Thr Val
 290 295 300
 Ile Val Gly Leu Thr Asn Val Leu Ala Thr Phe Ile Ala Ile Gly Leu
 305 310 315 320
 Val Asp Arg Trp Gly Arg Lys Pro Thr Leu Thr Leu Gly Phe Leu Val
 325 330 335
 Met Ala Val Gly Met Gly Val Leu Gly Thr Met Met His Met Gly Ile
 340 345 350
 His Ser Pro Thr Ala Gln Tyr Phe Ala Val Ala Met Leu Leu Met Phe
 355 360 365
 Ile Ile Gly Phe Ala Met Ser Ala Gly Pro Leu Ile Trp Val Leu Cys
 370 375 380
 Ser Glu Ile Gln Pro Leu Lys Gly Arg Asp Phe Gly Ile Thr Cys Ser
 385 390 395 400
 Thr Ala Thr Asn Trp Ile Ala Asn Met Ile Val Gly Ala Thr Phe Leu
 405 410 415
 Thr Met Leu Asn Thr Leu Gly Asn Ala Asn Thr Phe Trp Val Tyr Ala
 420 425 430
 Gly Leu Asn Leu Phe Phe Ile Val Leu Thr Ile Trp Leu Val Pro Glu
 435 440 445
 Thr Lys His Val Ser Leu Glu His Ile Glu Arg Asn Leu Met Lys Gly
 450 455 460
 Arg Pro Leu Arg Glu Ile Gly Ala His Asp
 465 470 475

<210> 9874

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 9874

Tyr Ser Asp His Ala Trp Arg Cys Gly Ala Arg Val Met Ser Gly Thr
 1 5 10 15
 Leu Leu Ala Phe Asp Phe Gly Thr Lys Ser Ile Gly Val Ala Val Gly
 20 25 30

Gln Arg Ile Thr Gly Thr Ala Arg Pro Leu Thr Ala Leu Lys Ala Asn
 35 40 45
 Asp Gly Thr Pro Asp Trp Asn Leu Ile Glu Arg Leu Leu Lys Glu Trp
 50 55 60
 Gln Pro Asp Asp Val Ile Val Gly Leu Pro Leu Asn Met Asp Gly Thr
 65 70 75 80
 Glu Gln Pro Leu Thr Ala Arg Ala Arg Lys Phe Ala Asn Lys Ile His
 85 90 95
 Gly Arg Phe Gly Val Ser Val Lys Leu His Asp Glu Arg Leu Ser Thr
 100 105 110
 Val Glu Ala Arg Ala Gly Leu Phe Glu His Gly Gly Phe Arg Ala Leu
 115 120 125
 Asn Lys Gly Ser Val Asp Ser Ala Ser Ala Val Ile Ile Leu Glu Ser
 130 135 140
 Tyr Phe Asp Gln Gly Tyr
 145 150

<210> 9875

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 9875

Cys Pro Ala Val Ala Arg Phe Cys Leu Arg Gly Ser Gly Leu Pro Pro
 1 5 10 15
 Pro Thr Tyr Ser Pro Val Ala His Thr Ala Pro Arg Ala Arg Pro Gly
 20 25 30
 His Pro Asp Ala Ala Ser Ala Pro Glu Pro His Ala Gly Phe Pro Pro
 35 40 45
 Val Asp Tyr Ala Pro Asp Leu Ser Pro Ala Pro Glu Arg Tyr Arg Pro
 50 55 60
 Gly Ala Arg Ser Pro Ala Pro His Arg Ala Cys Ala Ala Trp Pro Thr
 65 70 75 80
 Pro Asp Gly Arg Phe Pro Pro Ser Ala Pro Gly Val Ser Ser Arg
 85 90 95
 Cys Arg Ala Ala His Gln Ala Glu Ser His Pro Asp Leu His Ala Ala
 100 105 110
 Arg Cys Ala Gly Pro Arg Gln Arg Thr Gly Cys Ala Gly Leu Ser Pro
 115 120 125
 Ala Ala Gly Ser Gly Asn Val His Ser Gly Thr
 130 135 140

<210> 9876

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 9876

Thr Thr Pro Arg Lys Met Asn Asp Ile Ala His Asn Leu Ala Gln Val
 1 5 10 15
 Arg Asp Lys Ile Ser Ala Ala Ala Thr Arg Cys Gly Arg Ala Pro Glu
 20 25 30
 Glu Ile Thr Leu Leu Ala Val Ser Lys Thr Lys Pro Ala Ser Ala Ile
 35 40 45
 Ala Glu Ala Ile Ala Ala Gly His Arg Ala Phe Gly Glu Asn Tyr Val
 50 55 60
 Gln Glu Gly Val Asp Lys Ile Leu Ala Phe Arg Glu Arg Gly Asn Ala
 65 70 75 80
 Asp Leu Gln Trp His Phe Ile Gly Pro Leu Gln Ser Asn Lys Ser Arg
 85 90 95
 Leu Val Ala Glu His Phe Asp Trp Cys His Thr Ile Asp Arg Leu Arg

```

      100      105      110
Ile Ala Thr Arg Leu Ser Asp Gln Arg Pro Ile Glu Ile Pro Ala Leu
      115      120      125
Asn Val Leu Ile Gln Ile Asn Ile Ser Asp Glu Asn Ser Lys Ser Gly
      130      135      140
Ile Thr Leu Ser Glu Leu Asp Ala Leu Ala Ala Asp Val Ala Ala Leu
145      150      155      160
Pro Arg Leu Thr Leu Arg Gly Leu Met Ala Ile Pro Ala Pro Glu Ser
      165      170      175
Ser Tyr Glu Arg Gln Phe Ala Val Ala Gln Gln Met Ala Val Ala Phe
      180      185      190
Glu Ala Leu Lys Ala Arg Tyr Asp Thr Val Asp Thr Leu Ser Leu Gly
      195      200      205
Met Ser Asp Asp Met Glu Ala Ala Ile Ala Ala Gly Ser Thr Met Val
      210      215      220
Arg Ile Gly Thr Ala Ile Phe Gly Ala Arg Asp Tyr Pro Gln
225      230      235

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<210> 9877

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 9877

```

Gly Asn Leu Arg Asn Ala Met Lys Thr Leu Thr Phe Leu Leu Ser Thr
      5      10      15
1 Val Ile Glu Leu Tyr Thr Met Ala Leu Leu Arg Val Trp Met Gln
      20      25      30
Trp Ala Arg Cys Asp Phe Tyr Asn Pro Phe Ser Gln Phe Ile Val Lys
      35      40      45
Ile Thr Gln Pro Ile Val Gly Pro Leu Arg Arg Ile Ile Pro Ala Met
      50      55      60
Gly Pro Ile Asp Ser Ser Ser Leu Leu Met Ala Phe Ile Leu Ser Val
65      70      75      80
Ile Lys Ala Ile Val Leu Phe Met Val Ile Thr Phe Gln Pro Ile Ile
      85      90      95
Trp Ile Ser Ala Val Leu Ile Leu Val Lys Thr Val Gly Ser Leu Ile
      100      105      110
Phe Trp Val Leu Leu Val Met Ala Ile Met Ser Trp Val Ser Arg Gly
      115      120      125
Arg Ser Pro Val Glu Tyr Ala Leu Ile Gln Leu Thr Glu Pro Leu Leu
      130      135      140
Arg Pro Ile Arg Ser Leu Leu Pro Ala Met Gly Gly Ile Asp Phe Ser
145      150      155      160
Pro Met Leu Leu Val Leu Leu Tyr Val Leu Asn Met Gly Ile Ala
      165      170      175
Glu Leu Leu Gln Ala Thr Gly Asn Met Leu Leu Pro Gly Leu Trp Met
      180      185      190
Ala Leu
195

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<210> 9878

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 9878

```

Asn Cys Tyr Trp Lys His Cys Val Met Ala Asn Leu Pro Pro Leu Ser
1      5      10      15
Leu Tyr Ile His Ile Pro Trp Cys Val Gln Lys Cys Pro Tyr Cys Asp
      20      25      30

```

Phe Asn Ser His Ala Leu Lys Gly Glu Val Pro His Asp Asp Tyr Val
 35 40 45
 Ala His Leu Leu Ala Asp Leu Asp Ala Asp Val Pro Tyr Ala Gln Gly
 50 55 60
 Arg Glu Val Lys Thr Ile Phe Ile Gly Gly Gly Thr Pro Ser Leu Leu
 65 70 75 80
 Ser Gly Pro Ala Met Gln Thr Leu Leu Asp Gly Val Arg Ala Arg Leu
 85 90 95
 Asn Leu Ala Ala Asp Ala Glu Ile Thr Met Glu Ala Asn Pro Gly Thr
 100 105 110
 Val Glu Ala Asp Arg Phe Val Glu Tyr Gln Arg Ala Gly Val Asn Arg
 115 120 125
 Ile Ser Ile Gly Val Gln Ser Phe Ser Glu Pro Lys Leu Lys Arg Leu
 130 135 140
 Gly Arg Ile His Gly Pro Glu Glu Ala Lys Arg Ala Ala Asn Leu Ala
 145 150 155 160
 Thr Gly Leu Gly Leu Arg Ser Phe Asn Leu Asp Leu Met His Gly Leu
 165 170 175
 Pro Asp Gln Ser Leu Glu Glu Ala Leu Asp Asp Leu Arg Gln Ala Ile
 180 185 190
 Glu Leu Asn Pro Pro His Leu Ser Trp Tyr Gln Leu Thr Ile Glu Pro
 195 200 205
 Asn Thr Leu Phe Gly Ser Arg Pro Pro Val Leu Pro Asp Asp Ala
 210 215 220
 Leu Trp Asp Ile Phe Glu Gln Gly His Gln Leu Leu Thr Ala Ala Gly
 225 230 235 240
 Tyr Gln Gln Tyr Glu Thr Ser Ala Tyr Ala Lys Pro Gly Tyr Gln Cys
 245 250 255
 Gln His Asn Leu Asn Tyr Trp Arg Phe Gly Asp Tyr Leu Gly Ile Gly
 260 265 270
 Cys Gly Ala His Gly Lys Val Thr Phe Pro Asp Gly Arg Ile Leu Arg
 275 280 285
 Thr Ala Lys Thr Arg His Pro Arg Gly Tyr Met Glu Gly Arg Tyr Leu
 290 295 300
 Glu Arg Gln His Asp Val Glu Ala Val Asp Lys Pro Phe Glu Phe Phe
 305 310 315 320
 Met Asn Arg Phe Arg Leu Leu Glu Ala Ala Pro Arg Ala Glu Phe Thr
 325 330 335
 Arg Tyr Thr Gly Leu Pro Glu Ser Val Ile Arg Pro Gln Ile Asp Glu
 340 345 350
 Ala Leu Ala Gln Gly Tyr Leu Thr Glu Cys Asp Val Ser Trp Gln Ile
 355 360 365
 Thr Glu His Gly Lys Leu Phe Leu Asn Ser Leu Leu Glu Leu Phe Leu
 370 375 380
 Ala Glu Asn Pro Glu Gly
 385 390

<210> 9879

<211> 448

<212> PRT

<213> *Enterobacter cloacae*

<400> 9879

Arg Cys Gln Leu Ile Glu Leu His Gln Ile Thr Thr Leu Asn Val Pro
 1 5 10 15
 Ile Thr Thr Tyr Leu Pro Leu Thr Cys Glu Glu Ser Asn Met Asn Leu
 20 25 30
 Lys Leu Gln Leu Lys Ile Leu Ser Phe Leu Gln Phe Cys Leu Trp Gly
 35 40 45
 Ser Trp Leu Thr Thr Leu Gly Ser Tyr Met Phe Val Thr Leu Lys Phe
 50 55 60

```

Asp Gly Ala Ser Ile Gly Ala Val Tyr Ser Ser Leu Gly Ile Ala Ala
65      70      75      80
Val Phe Met Pro Thr Leu Leu Gly Ile Val Ala Asp Lys Trp Leu Ser
      85      90      95
Ala Lys Trp Leu Tyr Met Leu Cys His Leu Val Gly Ala Gly Thr Leu
      100      105      110
Phe Met Ala Ala Glu Val Thr Thr Pro Gly Ala Met Phe Met Val Ile
      115      120      125
Leu Leu Asn Ser Leu Ala Tyr Met Pro Thr Leu Gly Leu Ile Asn Thr
      130      135      140
Ile Ser Tyr Tyr Arg Leu Lys Ser Ala Gly Leu Asp Ile Val Thr Asp
145      150      155      160
Phe Pro Pro Ile Arg Ile Trp Gly Thr Ile Gly Phe Ile Met Ala Met
      165      170      175
Trp Gly Val Ser Phe Ala Gly Phe Glu Leu Ser His Met Gln Leu Tyr
      180      185      190
Ile Gly Ala Ala Leu Ser Val Leu Leu Ala Leu Phe Thr Leu Thr Leu
      195      200      205
Pro Thr Ile Pro Val Ser Asn Gln Gln Lys Asn Gln Ser Trp Ser Thr
      210      215      220
Met Leu Gly Leu Asp Ala Phe Ala Leu Phe Lys Asn Lys Arg Met Ala
225      230      235      240
Ile Phe Phe Ile Phe Ser Met Leu Leu Gly Ala Glu Leu Gln Ile Thr
      245      250      255
Asn Met Phe Gly Asn Thr Phe Leu His Ser Phe Asp Asn Asp Pro Leu
      260      265      270
Phe Ala Gly Ser Phe Ile Val Glu His Ala Ser Val Met Met Ser Ile
      275      280      285
Ser Gln Ile Ser Glu Thr Leu Phe Ile Leu Thr Ile Pro Phe Phe Leu
290      295      300      305
Ser Arg Tyr Gly Ile Lys Asn Val Met Leu Ile Ser Ile Ala Ala Trp
305      310      315      320
Met Leu Arg Phe Gly Leu Phe Ala Tyr Gly Asp Pro Ser Ala Phe Gly
      325      330      335
Thr Val Leu Leu Val Leu Ser Met Ile Val Tyr Gly Cys Ala Phe Asp
      340      345      350
Phe Phe Asn Ile Ser Gly Ser Val Phe Val Glu Lys Glu Val Lys Pro
      355      360      365
Glu Ile Arg Ala Ser Ala Gln Gly Met Phe Leu Met Met Thr Asn Gly
      370      375      380
Phe Gly Cys Ile Leu Gly Gly Val Val Ser Gly Lys Val Val Glu Met
385      390      395      400
Tyr Thr Thr Asn Gly Ile Thr Asp Trp Gln Pro Val Trp Leu Ile Phe
      405      410      415
Ala Gly Tyr Ser Leu Val Leu Phe Phe Ala Phe Ile Ala Leu Phe Lys
      420      425      430
Tyr Lys His Val Arg Val Pro Asn Gly Ala Gln Pro Ile Ala His
435      440      445

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<210> 9880

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 9880

```

Leu Lys Ala Met Ser His Arg Leu Ala Val Gln Leu Lys Leu Pro Ile
1      5      10      15
Thr Pro His Ala Val Pro Phe Ser His Cys Leu Phe Pro Pro Arg Glu
      20      25      30
Arg Pro Gly Thr Pro Tyr Arg Asn Trp Lys Ile Pro Thr Met Gln His
35      40      45

```


Glu Leu Ile Asp Val Leu Ile Val Glu Asp Glu Asn Glu Leu Ala Gln
 50 55 60
 Leu His Ala Glu Leu Ile Gly Lys His Pro Arg Leu Arg Leu Val Gly
 65 70 75
 Ile Ala Ala Ser Leu Ala Asp Ala Gln Val Gln Leu Glu Ser Lys Gln
 85 90 95
 Pro Lys Leu Met Leu Leu Asp Asn Tyr Leu Pro Asp Gly Lys Gly Ile
 100 105 110
 Thr Leu Ile Ser Asn Pro Met Leu Thr Arg Ala Asn Cys Ser Val Ile
 115 120 125
 Phe Ile Thr Ala Ala Ser Asp Met Asp Thr Cys Ser Gln Ala Ile Arg
 130 135 140
 Asn Gly Ala Phe Asp Tyr Ile Leu Lys Pro Val Ser Trp Lys Arg Leu
 145 150 155
 Ser Gln Ser Leu Glu Arg Phe Val Gln Phe Ala Glu Gln Gln Arg Val
 165 170 175
 Trp Lys Ile Val Asp Gln Gln Asn Val Asp Ser Leu Tyr Gln Leu Gln
 180 185 190
 Ala Lys Asn Tyr Arg Leu Asp Asn Gly Ser Lys Gly Ile Glu Glu Asn
 195 200 205
 Thr Leu Ala Arg Val Gln Met Leu Phe Asn Asn Lys Ala Ala His Cys
 210 215 220
 Phe Thr Val Asp Glu Val Val Ser Glu Thr Gly Leu Ser Lys Thr Thr
 225 230 235
 Thr Arg Arg Tyr Leu Glu His Cys Val Glu Val Gly Phe Leu Thr Val
 245 250 255
 Glu Met Leu Tyr Gly Lys Ile Gly His Pro Arg Arg Met Tyr Arg Arg
 260 265 270
 Ser Ala Thr
 275

<210> 9881

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 9881

Cys Arg Pro Phe Ala Ala Pro Gly Ala Val Ser Glu Gly Ser Ala Val
 1 5 10 15
 Asn Gln Gln Glu Gly Gly Met Ser Ala Gln Pro Val Asp Leu Gln Ile
 20 25 30
 Phe Gly Arg Ser Leu Arg Val Asn Cys Pro Pro Glu Gln Arg Asp Ala
 35 40 45
 Leu Asn Gln Ala Ala Asp Asp Leu Asn Gln Arg Leu Gln Asp Leu Lys
 50 55 60
 Glu Arg Thr Arg Val Thr Asn Thr Glu Gln Leu Val Phe Ile Ala Ala
 65 70 75 80
 Leu Asn Ile Ser Tyr Glu Leu Thr Gln Glu Lys Ala Lys Thr Arg Asp
 85 90 95
 Tyr Ala Ala Ser Met Glu Gln Arg Ile Lys Met Leu Gln Gln Thr Ile
 100 105 110
 Glu Gln Ala Leu Leu Asp Gln Gly Arg Ser Pro Glu Arg Pro Gly Pro
 115 120 125
 Lys Phe Glu
 130

<210> 9882

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 9882

```

Asn Tyr Asp Asp Thr Phe Thr Leu Asn Gln Gly Phe Lys Gly Tyr Ser
1      5      10
Leu Arg Arg His Leu Gly Asp Ser Leu Ser Phe Leu Leu Pro Thr Thr
      20      25      30
Met Thr Gln Phe Pro Glu Val Ser Ala Ser Arg Gln Asp Ile Arg Gln
      35      40      45
Leu Ile Arg Gln Arg Arg Arg Ala Leu Ser Ala Glu Gln Gln Ala His
      50      55      60
Phe Ala Gln Gln Ala Ala Arg Met Met Ala Tyr Pro Pro Val Val
65      70      75      80
Met Ala Asn Thr Val Ala Leu Phe Leu Ser Phe Asp Gly Glu Leu Asp
      85      90      95
Thr Gln Pro Leu Ile Asp Gln Leu Trp Arg Ala Gly Lys Lys Val Tyr
      100      105      110
Leu Pro Val Leu His Pro Phe Ser Arg Gly Asn Leu Leu Phe Leu His
      115      120      125
Tyr His Pro His Ser Glu Leu Val Val Asn Arg Leu Lys Ile Thr Glu
      130      135      140
Pro Lys Leu Asp Val Arg Asp Val Leu Pro Leu Ser Glu Leu Asp Val
145      150      155      160
Leu Ile Thr Pro Leu Val Ala Phe Asp Glu Gln Gly Gln Arg Leu Gly
      165      170      175
Met Gly Gly Gly Phe Tyr Asp Arg Thr Leu Gln Asn Trp Gln Gln Tyr
      180      185      190
Gly Leu Gln Pro Val Gly Tyr Ala His Asp Cys Gln Gly Val Glu Val
      195      200      205
Leu Pro Val Glu Lys Trp Asp Val Pro Leu Pro Ala Val Val Thr Pro
      210      215      220
Ser Lys Thr Trp Thr Trp
225      230

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<210> 9883

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 9883

```

Phe Gln Gln Pro Arg His Gln Arg Gly Val Asn Thr Leu Val Asp Lys
1      5      10      15
Gln Pro Arg Pro Gly Asp Thr Arg Leu Pro Arg Arg Ala Glu Asn Ala
      20      25      30
Val Ala Asp Pro Ala Arg Gly Leu Phe Asp Ile Gly Ile Leu Gln His
      35      40      45
Asp Gly Arg Arg Phe Ala Ala Gln Phe Gln Arg Gly Arg Asp Gln Phe
      50      55      60
Phe Arg Arg His Val Arg Gln Met Thr Ala Arg Gly Gly Ala Ala Gly
65      70      75      80
Lys Gly Asn Phe Pro His Ala Arg Met Thr Arg Gln Arg Ile Ala Asn
      85      90      95
His Arg Ala Phe Ala Arg Gln Asp Thr Gln Gln Pro Gly Gly Gln Pro
      100      105      110
Gly Leu Phe Lys Asn Pro Arg Gln Leu Gln Arg His Gln Arg Arg Gly
      115      120      125
Phe Gly Gly Leu Glu Asp His Arg Val Pro Gly Gly Asn Arg Arg Cys
      130      135      140
Asp Leu Leu His Phe Ala Gly Asn Arg Arg Val Pro Arg Arg Asp Gly
145      150      155      160
Arg His His Ala Lys Gly Leu Val Ala Ala Gln Arg Gln Gln Ile Arg
      165      170      175
Leu Ala Arg Arg Arg Lys Phe Pro Phe Gln Gln Leu Ala Gly Gly Gly

```

180 185 190
 Lys Val Ala Arg Arg Ser Arg Arg Ala His His Gln Pro Ala Arg Phe
 195 200 205
 Arg Gln Arg Leu Ala Val Ile Thr Ala Leu His Leu Arg Gln Arg Ile
 210 215 220
 Asp Ala Gly Phe Asn Lys Ile Gly Asn Phe Met Gln Asp Leu Arg Ala
 225 230 235 240
 His Val Arg Gln Thr Val Thr Pro Cys Gly Ile Ala Pro Gly Ala Leu
 245 250 255
 Ser Gly Gly Tyr Arg Leu Leu Gln Val Ile Gln Thr Gly Gly Ile Gln
 260 265 270
 Arg Arg Val Glu Arg Pro Val Cys Arg Lys Val Ala Leu His Arg Val
 275 280 285
 Ala Ala Ala Ala Ser Pro Leu Ala Ala Asp Lys Asn Leu Gln Ile Val
 290 295 300
 His Arg His Ser Ser Ala Gln Gly Gln Leu Ala Ala Gly Ala His Arg
 305 310 315 320
 Ala Gln Cys Arg Gln Gly Gly Gly Phe Arg Ile Arg Ser Gln Arg Gln
 325 330 335
 Ser Ala Gln Phe Gln Met Glu Leu Ala Glu
 340 345

<210> 9884

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 9884

Asn Met Ala Lys His Leu Phe Thr Ser Glu Ser Val Ser Glu Gly His
 1 5 10 15
 Pro Asp Lys Ile Ala Asp Gln Ile Ser Asp Ala Val Leu Asp Ala Ile
 20 25 30
 Leu Ala Gln Asp Pro Lys Ala Arg Val Ala Cys Glu Thr Tyr Val Lys
 35 40 45
 Thr Gly Met Val Leu Val Gly Gly Glu Ile Thr Thr Ser Ala Trp Val
 50 55 60
 Asp Ile Glu Glu Ile Thr Arg Asn Thr Val Arg Glu Ile Gly Tyr Val
 65 70 75 80
 His Ser Asp Met Gly Phe Asp Ala Asn Ser Cys Ala Val Leu Ser Ala
 85 90 95
 Ile Gly Lys Gln Ser Pro Asp Ile Asn Gln Gly Val Asp Arg Ala Asp
 100 105 110
 Pro Leu Glu Gln Gly Ala Gly Asp Gln Gly Leu Met Phe Gly Tyr Ala
 115 120 125
 Thr Asn Glu Thr Asp Val Leu Met Pro Ala Pro Val Thr Tyr Ala His
 130 135 140
 Arg Leu Val Gln Arg Gln Ala Glu Val Arg Lys Asn Gly Thr Leu Pro
 145 150 155 160
 Trp Leu Arg Pro Asp Ala Lys Ser Gln Val Thr Phe Gln Tyr Asp Asp
 165 170 175
 Gly Lys Ile Val Gly Ile Asp Ala Val Val Leu Ser Thr Gln His Ala
 180 185 190
 Glu Glu Ile Asp Gln Lys Ser Leu Gln Glu Ala Val Met Glu Glu Ile
 195 200 205
 Ile Lys Pro Val Leu Pro Thr Glu Trp Leu Ser Ser Ala Thr Lys Phe
 210 215 220
 Phe Ile Asn Pro Thr Gly Arg Phe Val Ile Gly Gly Pro Met Gly Asp
 225 230 235 240
 Cys Gly Leu Thr Gly Arg Lys Ile Ile Val Asp Thr Tyr Gly Gly Met
 245 250 255
 Ala Arg His Gly Gly Gly Ala Phe Ser Gly Lys Asp Pro Ser Lys Val

260 265 270
 Asp Arg Ser Ala Ala Tyr Ala Ala Arg Tyr Val Ala Lys Asn Ile Val
 275 280 285
 Ala Ala Gly Leu Ala Asp Arg Cys Glu Ile Gln Val Ser Tyr Ala Ile
 290 295 300
 Gly Val Ala Glu Pro Thr Ser Ile Met Val Glu Thr Phe Gly Thr Glu
 305 310 315 320
 Lys Val Pro Ser Glu Gln Leu Thr Leu Leu Val Arg Glu Phe Phe Asp
 325 330 335
 Leu Arg Pro Tyr Gly Leu Ile Gln Met Leu Asp Leu Leu His Pro Ile
 340 345 350
 Tyr Gln Glu Thr Ala Ala Tyr Gly His Phe Gly Arg Glu His Phe Pro
 355 360 365
 Trp Glu Lys Thr Asp Lys Ala Ala Leu Leu Arg Asp Ala Ala Gly Leu
 370 375 380
 Lys
 385

<210> 9885
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 9885
 Ala His Thr Thr Asp Pro Pro Ala Gly Gly Ala Ser Cys Ala Ser Pro
 1 5 10 15
 Leu Pro Ala Leu Cys Ser Ala Pro Met Lys Ala Pro Arg Leu Pro Ile
 20 25 30
 Ala Ile Gln Gln Ala Val Met Arg Ser Leu Arg Glu Lys Leu Ala Gln
 35 40 45
 Ala Asn Leu Lys Leu Gly Arg Asn Tyr Pro Glu Pro Lys Leu Val Tyr
 50 55 60
 Gln Gln Arg Gly Thr Ala Ala Gly Thr Ala Trp Leu Glu Ser Tyr Glu
 65 70 75 80
 Ile Arg Leu Asn Pro Val Leu Met Met Glu Asn Gln Gln Ala Phe Ile
 85 90 95
 Glu Glu Val Val Pro His Glu Leu Ala His Leu Leu Val Trp Lys His
 100 105 110
 Phe Gly Arg Val Ala Pro His Gly Lys Glu Trp Lys Trp Met Met Glu
 115 120 125
 Ala Val Leu Gly Val Pro Ala Arg Arg Thr His Gln Phe Glu Leu Glu
 130 135 140
 Ser Val Arg Arg Asn Thr Phe Pro Tyr Arg Cys Gln Cys Gln Gln His
 145 150 155 160
 Gln Leu Thr Val Arg Arg His Asn Arg Val Val Arg Gly Glu Ala Thr
 165 170 175
 Tyr Arg Cys Val Lys Cys Gly Glu Pro Leu Val Ala Glu
 180 185 190

<210> 9886
 <211> 236
 <212> PRT
 <213> Enterobacter cloacae

<400> 9886
 Asn Arg Ser Gly Ile Pro Asp Leu Asp His Arg Asn Ala Asp Gly Arg
 1 5 10 15
 Tyr Arg Lys Thr Phe Thr Glu Ile Thr Cys Asp Ser Ala Cys Val Tyr
 20 25 30
 Pro His Thr Gly Arg Cys Arg Phe Leu Asn Gln Glu Thr Val Pro Leu
 35 40 45

```

Thr Met Asn Leu Gln His His Phe Leu Ile Ala Met Pro Ala Leu Gln
 50          55          60
Asp Pro Ile Phe Arg Arg Ala Val Val Tyr Ile Cys Glu Tyr Asn Glu
 65          70          75          80
Asp Gly Ala Met Gly Ile Ile Asn Lys Pro Leu Glu Asn Leu Gln
          85          90          95
Val Glu Gly Ile Leu Asp Lys Leu Lys Ile Pro Ala Glu Ala Arg Leu
          100          105          110
Pro Glu Ile Arg Leu Asp Lys Pro Val Met Leu Gly Gly Pro Leu Ala
          115          120          125
Glu Asp Arg Gly Phe Ile Leu His Thr Pro Pro Val Phe Ser Ser Ser
 130          135          140          145
Ile Arg Ile Ser Asp Asn Thr Val Val Thr Thr Ser Arg Asp Val Leu
          150          155          160
Glu Thr Leu Gly Thr Ala Ser Gln Pro Ser Glu Val Leu Val Ala Leu
          165          170          175
Gly Tyr Ala Ser Trp Glu Lys Gly Gln Leu Glu Gln Glu Ile Leu Asp
          180          185          190
Asn Ala Trp Leu Thr Ala Pro Ala Asp Met Asn Ile Leu Phe Lys Thr
          195          200          205
Pro Ile Ala Asp Arg Trp Arg Asp Ala Ala Lys Leu Ile Gly Ile Asp
          210          215          220
Ile Leu Thr Met Pro Gly Val Ala Gly His Ala
 225          230          235

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<210> 9887

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 9887

```

Leu Ser Ala Thr Ala Ile Ser Arg Ala Gly Gly Ser Arg Gly Ala Pro
 1          5          10          15
Val Thr Ala Ile Thr Cys Arg Cys Asn Gly Leu Ala Ser Ala Arg Gln
          20          25          30
Arg Gly Met Ser Met Ala Arg Thr Ile Phe Cys Thr Phe Leu Gln Arg
          35          40          45
Asp Ala Glu Gly Gln Asp Phe Gln Leu Tyr Pro Gly Asp Leu Gly Lys
          50          55          60
Arg Ile Tyr Asn Glu Ile Ser Lys Glu Ala Trp Gly Gln Trp Gln Lys
          65          70          75          80
Lys Gln Thr Met Leu Ile Asn Glu Lys Lys Leu Ser Met Met Asn Pro
          85          90          95
Glu His Arg Lys Leu Leu Glu Gln Glu Met Val Asn Phe Leu Phe Glu
          100          105          110
Gly Lys Asp Val His Ile Glu Gly Tyr Thr Pro Pro Glu Lys
          115          120          125

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<210> 9888

<211> 463

<212> PRT

<213> Enterobacter cloacae

<400> 9888

```

Thr His Lys Ile Thr Lys Gly Leu Ile Met Ser Thr Thr Asp Asp Ser
 1          5          10          15
Phe Ser Val Thr His Asp Pro Ile Asp Ile Gln Arg Pro Ser Leu Lys
          20          25          30
Glu Arg Trp Trp His Ile Met Asp Thr Trp Lys Ile Gly Ile Ile Pro
          35          40          45
Leu Pro Leu Phe Val Leu Ala Gly Ala Leu Ile Ala Ile Asp Cys Leu

```

```

      50      55      60
Gly Gly Lys Leu Pro Ser Asp Ile Val Val Met Val Ala Thr Leu Ala
65      70      75
Phe Phe Gly Phe Ala Cys Gly Glu Phe Gly Lys Arg Leu Pro Ile Val
      85      90      95
Gly Lys Leu Gly Ala Ala Ala Ile Cys Ala Thr Phe Ile Pro Ser Ala
      100      105      110
Leu Val Tyr Tyr Gly Leu Leu Pro Asp Val Val Val Glu Ser Thr Thr
      115      120      125
Lys Phe Tyr Lys Ser Thr Asn Ile Leu Tyr Leu Tyr Ile Cys Cys Ile
      130      135      140
Ile Val Gly Ser Ile Met Ser Met Asn Arg Thr Val Leu Ile Gln Gly
      145      150      155
Phe Leu Arg Ile Phe Phe Pro Met Leu Cys Gly Glu Ile Val Gly Met
      165      170      175
Ile Val Gly Met Gly Val Gly Leu Ala Leu Gly Leu Glu Pro Phe Gln
      180      185      190
Ile Phe Phe Phe Ile Ile Leu Pro Ile Met Ala Gly Gly Val Gly Glu
      195      200      205
Gly Ala Ile Pro Leu Ser Ile Gly Tyr Ala Thr Leu Leu His Met Asp
      210      215      220
Gln Gly Val Ala Leu Gly Arg Val Leu Pro Met Val Met Leu Gly Gly
      225      230      235
Leu Thr Ala Ile Ile Ile Ser Gly Cys Leu Asn Gln Leu Gly Lys Arg
      245      250      255
Tyr Pro His Leu Thr Gly Glu Gly Gln Leu Met Pro Asn Arg Ala Asn
      260      265      270
Ala Asp Ala Thr Val Ser Gln Pro Ala Phe Ser Gly Lys Ala Asp Val
      275      280      285
Thr Thr Ile Ala Ser Gly Ala Leu Leu Ala Val Leu Leu Tyr Met Leu
      290      295      300
Gly Met Leu Gly His Lys Leu Ile Gly Leu Pro Ala Pro Val Gly Met
      305      310      315
Leu Phe Met Ala Val Leu Val Lys Leu Cys Asn Gly Ala Ser Pro Arg
      325      330      335
Leu Leu Glu Gly Ser Gln Val Val Tyr Lys Phe Phe Gln Thr Ser Val
      340      345      350
Thr Tyr Pro Ile Leu Phe Ala Val Gly Val Ala Ile Thr Pro Trp His
      355      360      365
Glu Leu Val Ala Ala Phe Thr Leu Thr Asn Leu Leu Val Ile Ile Ser
      370      375      380
Thr Val Ser Ala Leu Val Ala Thr Gly Phe Phe Val Gly Lys Lys Ile
      385      390      395
Gly Met His Pro Ile Asp Val Ala Ile Val Ser Cys Cys Gln Ser Gly
      405      410      415
Gln Gly Gly Thr Gly Asp Val Ala Ile Leu Thr Ala Gly Asn Arg Met
      420      425      430
Ser Leu Met Pro Phe Ala Gln Ile Ala Thr Arg Ile Gly Gly Ala Ile
      435      440      445
Asn Val Ser Ile Ser Leu Leu Ile Leu Gly Asn Phe Leu Val
      450      455      460

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<210> 9889

<211> 344

<212> PRT

<213> *Enterobacter cloacae*

<400> 9889

```

Gly Gly Ser Met Gln Ser Gln Pro Ile Asp Phe Arg His Thr Val Val
1      5      10      15
Ala Lys His Pro Glu Arg Leu Ser Gln Ile Arg Tyr Leu Leu Ala Asp

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20 25 30
 Ser Gly Leu Gly Leu Asp Asn Asp Ile Thr Leu Phe Val Glu Ala Trp
 35 40 45
 Ser Gly Ala Gln Leu Val Gly Cys Ala Gly Leu Ala Asn Val Ile
 50 55 60
 Lys Cys Val Ala Val Asn Glu Gln Leu Arg Gly Glu Asn Leu Ser Ala
 65 70 75 80
 Arg Leu Leu Ala Glu Val Glu Asn Ala Ala Leu Glu Arg Gly His Phe
 85 90 95
 His Leu Phe Leu Cys Thr Arg Pro Cys Asn Lys Glu Arg Phe Gly Arg
 100 105 110
 Ser Gly Phe Trp Pro Ile Ala Gln Ser Gly Asn Asn Ala Val Leu Met
 115 120 125
 Glu Asn Thr Pro Gln Gly Ile Ala Arg Tyr Cys Arg Thr Leu Ser Arg
 130 135 140
 Met Arg Arg Gly Gly Glu Lys Ile Gly Ala Ile Val Met Asn Ala Asn
 145 150 155 160
 Pro Phe Thr Leu Gly His Arg His Leu Val Glu Gln Ala Ala Ala Gln
 165 170 175
 Cys Asp Ala Leu His Leu Phe Val Val Arg Glu Asp Ala Ser Phe Phe
 180 185 190
 Pro Phe Ser Ala Arg Leu Glu Met Val Arg Ala Gly Val Ala His Leu
 195 200 205
 Pro Asn Val Val Val His Glu Gly Ser Gln Tyr Ile Ile Ser Arg Ala
 210 215 220
 Thr Phe Pro Ala Tyr Phe Leu Lys Glu Thr Gly Lys Val Gln Gln Ala
 225 230 235 240
 Trp Ser Glu Ile Asp Val Leu Ile Phe Asp Asp Phe Ile Ala Pro Ala
 245 250 255
 Leu Gly Ile Thr His Arg Phe Ile Gly Ser Glu Pro Phe Cys Asp Ile
 260 265 270
 Thr Arg Gln Tyr Asn Gln Thr Leu His Asp Leu Leu Ala Ser His Ile
 275 280 285
 Asp Val Val Glu Met Pro Arg Ile Lys Ala Thr Gly Asn Ala Ile Ser
 290 295 300
 Ala Ser Glu Val Arg Arg Leu Leu Lys Thr Gln Gln Phe Ser Arg Ile
 305 310 315 320
 Arg Glu Ile Val Pro Asp Ser Thr Phe Ala His Leu Glu Ala His Tyr
 325 330 335
 Arg Ala Ser Ala Glu Val Ala
 340

<210> 9890

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 9890

Thr Gly His Gln Leu Gly Gly Ala Glu Met Ser Lys Leu Arg Arg Ser
 1 5 10 15
 Met Leu Phe Leu Pro Gly Ala Asn Ala Ala Met Leu Ser Thr Ala Phe
 20 25 30
 Ile Tyr Arg Pro Asp Ser Ile Met Phe Asp Leu Glu Asp Ala Val Ala
 35 40 45
 Leu Arg Glu Lys Asp Thr Ala Arg Met Leu Val Phe His Ala Leu Gln
 50 55 60
 His Pro Met Tyr Gln Asp Ile Glu Thr Val Val Arg Ile Asn Pro Leu
 65 70 75 80
 Ser Thr Pro Phe Gly Leu Leu Asp Leu Glu Ala Ala Val Arg Ala Gly
 85 90 95
 Val Asp Val Ile Arg Leu Pro Lys Thr Asp Thr Pro Asp Asp Ile Tyr

100 105 110
 Glu Leu Glu Gly His Leu Glu Arg Ile Glu Gln Ala Cys Gly Arg Glu
 115 120 125
 Val Gly Ser Thr Arg Val Met Ala Ala Ile Glu Ser Ala Ile Gly Val
 130 135 140
 Ile Asn Ala Val Ala Ile Ala Arg Ser Ser Pro Arg Leu Ile Gly Ile
 145 150 155 160
 Ala Leu Ala Ala Phe Asp Tyr Val Met Asp Met Gln Thr Glu Arg Gly
 165 170 175
 Asp Gly Thr Glu Leu Phe Tyr Ala Arg Cys Ala Val Leu His Ala Ala
 180 185 190
 Arg Ala Ala Gly Ile Asp Ala Phe Asp Val Val Trp Ser Asp Val Asn
 195 200 205
 Asp Glu Ala Gly Phe Leu Arg Glu Val Asp Leu Ile Arg Lys Met Gly
 210 215 220
 Phe Asn Gly Lys Ser Leu Ile Asn Pro Arg Gln Ile Asp Leu Leu His
 225 230 235 240
 Asn Ala Tyr Ala Pro Thr Arg Glu Glu Val Glu His Ala Lys Arg Val
 245 250 255
 Ile Glu Ala Ala Glu Glu Gly Glu Arg Asn Gly Leu Gly Val Val Ser
 260 265 270
 Leu Asn Gly Lys Met Val Asp Ala Pro Ile Ile Asn His Ala Gln Val
 275 280 285
 Val Leu Glu Arg Ala Ala Ser Gly Val Arg Arg
 290 295 300

<210> 9891

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 9891

Val His Arg Gln Asn Arg Arg Gly Asp Pro Leu Pro Arg Arg Gln Arg
 1 5 10 15
 Asp Arg His Cys Ala Thr Gly Glu Gly Gly Ser Met Thr Leu Ala Thr
 20 25 30
 Pro Val Arg Ala Gly Val Ser Leu Glu Glu Leu Leu Ala Ala Lys Glu
 35 40 45
 Arg Arg Ala Ala Arg Gln Ala Asp Trp Leu Thr His Tyr Gln Gln Pro
 50 55 60
 Val Ile Ser Leu Thr Leu Val Thr Pro Gly Glu Ile Lys Asp Ser Leu
 65 70 75 80
 Arg Tyr Arg Asn Thr Met Gly Val Ala Leu Gln Met Cys Asp Gln Leu
 85 90 95
 Leu Trp Glu Asn Arg Trp Gln Val Leu Asp Arg Leu Val Leu Trp Leu
 100 105 110
 Pro Thr Gly Pro Glu Ala Leu Trp Cys Val Ala His Pro Ala Ala Glu
 115 120 125
 Ile Lys Ala His Cys Ala Glu Leu Glu Gln Thr His Pro Leu Gly Arg
 130 135 140
 Leu Trp Asp Leu Asp Val Ile Cys Pro Glu Asn Gly Leu Val Gly Arg
 145 150 155 160
 Gln Ser Leu Gly Ser His Leu Arg Arg Cys Leu Ile Cys Asp Glu Pro
 165 170 175
 Ala His Ala Cys Ser Arg Ser Arg His His Pro Val Glu Gln Val Val
 180 185 190
 Ser Arg Val Glu Lys Met Ile Asp Asp Trp Phe Ala Arg Asp
 195 200 205

<210> 9892

<211> 257

<212> PRT

<213> *Enterobacter cloacae*

<400> 9892

```

Leu Trp Ile Met Pro Val Ser Arg Thr Phe Ser Gln Ala Asp Asn Ser
1      5      10      15
Phe Met Lys Asn Asp Val Ile Ser Pro Glu Phe Asp Glu Asn Gly Arg
20      25      30
Pro Leu Arg Arg Ile Arg Ser Phe Val Arg Arg Gln Gly Arg Leu Thr
35      40      45
Lys Gly Gln Gln His Ala Leu Asp Asn Tyr Trp Pro Val Met Gly Val
50      55      60
Glu Phe Ser Glu Gln Pro Leu Asp Phe Thr Asp Leu Phe Gly Arg Asp
65      70      75      80
Ala Pro Val Thr Leu Glu Ile Gly Phe Gly Met Gly Thr Ser Leu Val
85      90      95
Thr Met Ala Lys Ala Arg Pro Glu Gln Asn Phe Leu Gly Ile Glu Val
100     105     110
His Ser Pro Gly Val Gly Ala Cys Leu Ala Thr Ala His Glu Glu Gly
115     120     125
Val Glu Asn Leu Arg Val Met Cys His Asp Ala Val Glu Val Leu His
130     135     140
Lys Met Ile Pro Asp Asn Ser Leu Asn Met Val Gln Leu Phe Phe Pro
145     150     155     160
Asp Pro Trp His Lys Ala Arg His Asn Lys Arg Arg Ile Val Gln Ala
165     170     175
Pro Phe Ala Glu Leu Val Lys Ser Lys Leu Lys Leu Gly Gly Val Phe
180     185     190
His Met Ala Thr Asp Trp Glu Pro Tyr Ala Glu His Met Leu Glu Val
195     200     205
Met Ser Ser Leu Asp Gly Tyr Lys Asn Gln Ser Glu Ser Asn Asp Tyr
210     215     220
Val Pro Arg Pro Asp Ser Arg Pro Val Thr Lys Phe Glu Gln Arg Gly
225     230     235     240
His Arg Leu Gly His Gly Val Trp Asp Leu Met Phe Glu Arg Val Lys
245     250     255

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<210> 9893

<211> 666

<212> PRT

<213> *Enterobacter cloacae*

<400> 9893

```

Tyr Lys Glu Leu Arg Phe Ala Met Ser Asp Asp Met Ser Ser Leu Ser
1      5      10      15
Pro Ser Ser Ala Gly Glu Gln Gly Val Leu Arg Ser Met Gln Glu Val
20      25      30
Ala Met Ser Ser Gln Glu Ala Ser Lys Met Leu Arg Thr Tyr Asn Ile
35      40      45
Ala Trp Trp Gly Asn Asn Tyr Tyr Asp Val Asn Glu Leu Gly His Ile
50      55      60
Ser Val Cys Pro Asp Pro Asp Val Pro Glu Ala Arg Val Asp Leu Ala
65      70      75      80
Lys Leu Val Lys Thr Arg Glu Ala Gln Gly Gln Arg Leu Pro Ala Leu
85      90      95
Phe Cys Phe Pro Gln Ile Leu Gln His Arg Leu Arg Ser Ile Asn Ala
100     105     110
Ala Phe Lys Arg Ala Arg Glu Ser Tyr Gly Tyr Asn Gly Asp Tyr Phe
115     120     125

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Leu Val Tyr Pro Ile Lys Val Asn Gln His Arg Arg Val Ile Glu Ser
 130 135 140
 Leu Ile His Ser Gly Glu Pro Leu Gly Leu Glu Ala Gly Ser Lys Ala
 145 150 155 160
 Glu Leu Met Ala Val Leu Ala His Ala Gly Met Thr Arg Ser Val Ile
 165 170 175
 Val Cys Asn Gly Tyr Lys Asp Arg Glu Tyr Ile Arg Leu Ala Leu Ile
 180 185 190
 Gly Glu Lys Met Gly His Lys Val Tyr Leu Val Ile Glu Lys Met Thr
 195 200 205
 Glu Ile Ala Ile Val Leu Glu Glu Ala Glu Arg Leu Asn Val Ile Pro
 210 215 220
 Arg Leu Gly Val Arg Ala Arg Leu Ala Ser Gln Gly Ser Gly Lys Trp
 225 230 235 240
 Gln Ser Ser Gly Gly Glu Lys Ser Lys Phe Gly Leu Ala Ala Asn Gln
 245 250 255
 Val Leu Gln Leu Val Glu Ile Leu Arg Glu Arg Gly Arg Leu Asp Ser
 260 265 270
 Ile Gln Leu Leu His Phe His Leu Gly Ser Gln Met Ala Asn Ile Arg
 275 280 285
 Asp Ile Ala Thr Gly Val Arg Glu Ser Ala Arg Phe Tyr Val Glu Leu
 290 295 300
 His Lys Leu Gly Val Asn Ile Gln Cys Phe Asp Val Gly Gly Gly Leu
 305 310 315 320
 Gly Val Asp Tyr Glu Gly Thr Arg Ser Gln Ser Asp Cys Ser Val Asn
 325 330 335
 Tyr Gly Leu Asn Glu Tyr Ala Asn Asn Ile Ile Trp Ala Ile Gly Asp
 340 345 350
 Ala Cys Glu Glu His Gly Leu Pro His Pro Thr Val Ile Thr Glu Ser
 355 360 365
 Gly Arg Ala Val Thr Ala His His Thr Val Leu Val Ser Asn Ile Ile
 370 375 380
 Gly Val Glu Arg Ser Glu Ile Thr Glu Ala Thr Pro Pro Ala Asp Asp
 385 390 395 400
 Ala Pro Arg Ser Leu Gln Ser Met Trp Glu Thr Trp Gln Glu Met His
 405 410 415
 Glu Pro Gly Thr Arg Arg Ser Leu Arg Glu Trp Leu His Asp Ser Gln
 420 425 430
 Met Asp Leu His Asp Ile His Val Gly Tyr Ser Ser Gly Thr Phe Ser
 435 440 445
 Leu Gln Glu Arg Ala Trp Ala Glu Gln Leu Tyr Leu Asn Met Cys His
 450 455 460
 Glu Val Gln Lys Gln Leu Asp Pro Ser Asn Arg Ala His Arg Pro Ile
 465 470 475 480
 Ile Asp Glu Leu Gln Glu Arg Met Ala Asp Lys Met Tyr Val Asn Phe
 485 490 495
 Ser Leu Phe Gln Ser Met Pro Asp Ala Trp Gly Ile Asp Gln Leu Phe
 500 505 510
 Pro Val Leu Pro Leu Glu Gly Leu Asn His Ala Pro Glu Arg Arg Ala
 515 520 525
 Val Leu Leu Asp Ile Thr Cys Asp Ser Asp Gly Ala Ile Asp His Tyr
 530 535 540
 Val Asp Gly Asp Gly Ile Ala Thr Thr Met Pro Met Pro Glu Tyr Asp
 545 550 555 560
 Pro Glu Asn Pro Pro Met Leu Gly Phe Phe Met Val Gly Ala Tyr Gln
 565 570 575
 Glu Ile Leu Gly Asn Met His Asn Leu Phe Gly Asp Thr Glu Ala Val
 580 585 590
 Asp Val Phe Val Phe Pro Asp Gly Ser Val Glu Val Glu Leu Ser Asp
 595 600 605
 Glu Gly Asp Thr Val Ala Asp Met Leu Glu Tyr Val Gln Leu Asp Pro

610 615 620
 Lys Lys Leu Leu Thr Gln Phe Arg Asp Gln Val Lys Asn Thr Gly Leu
 625 630 635 640
 Asp Asp Ala Leu Gln Gln Phe Leu Glu Glu Phe Glu Ala Gly Leu
 645 650 655
 Tyr Gly Tyr Thr Tyr Leu Glu Asp Glu
 660 665

<210> 9894

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 9894

Ser Ile Asn Lys Phe Val Thr Leu Ser Leu Asp Glu Thr Phe Ile Ala
 1 5 10 15
 Phe Ile Leu Thr Val Leu Asn Lys Lys Gln Ser Phe Ile Tyr Glu Thr
 20 25 30
 Lys Ala Trp Arg Ile Val Met Ser Trp Ile Gly Val Cys Asp Ala Glu
 35 40 45
 Gln Val Gln Glu Asp Phe Pro Phe Ser Gly Asn Val Asp Gly Lys Glu
 50 55 60
 Ile Gly Val Tyr Leu Ile Asp Gly Glu Tyr Tyr Ala Leu Glu Asp Val
 65 70 75 80
 Cys Pro His Ala Tyr Ala Leu Leu Ser Gln Gly Phe Val Glu Asp Gly
 85 90 95
 Lys Val Glu Cys Pro Leu His Glu Ala Val Phe Asp Val Lys Thr Gly
 100 105 110
 Gln Cys Leu His Gly Pro Gly Gly Arg Asn Leu Asn Arg Tyr Pro Val
 115 120 125
 Arg Val Phe Glu Asn Gln Ile Gln Ile Thr Phe Val Glu Glu Thr Val
 130 135 140
 Ala
 145

<210> 9895

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 9895

Thr Arg Cys Ala Cys Thr Thr Ser Arg Ala Ser Arg Gly Ala Thr Pro
 1 5 10 15
 Ala Ser Gly His Ser Tyr Arg Leu Thr Ala Thr Glu Gly Asn Ala Met
 20 25 30
 Thr Thr Thr Val Gln His Tyr Leu Asp Lys Gly Leu Arg Gly Leu Trp
 35 40 45
 Tyr Pro Val Leu Ala Ser Trp Glu Val Gln Ser Ala Pro Val Gly Ile
 50 55 60
 Thr Arg Leu Gly Glu Gln Ile Val Val Trp Arg Asn Lys Asp Gly Gln
 65 70 75 80
 Val Gln Ala Leu Glu Asp Arg Cys Pro His Arg Gly Ala Arg Leu Ser
 85 90 95
 Met Gly Trp Asn Leu Gly Asp Arg Ile Ala Cys Trp Tyr His Gly Val
 100 105 110
 Glu Val Ala Gly Asn Gly Glu Val Lys Asp Val Pro Ala Val Asp Lys
 115 120 125
 Cys Pro Leu Val Gly Gln Gln Cys Val Arg Ser Tyr Ser Val Gln Glu
 130 135 140
 Ala His Gly Ala Ile Phe Leu Trp Phe Gly Val Thr Ala Asp Gln Gln
 145 150 155 160

Pro Asp Glu Leu Thr Phe Pro Asp Glu Leu Ala Asp Thr Asp Ser Phe
 165 170 175
 Ser Asn Phe Leu Cys Thr Ala Ala Trp Lys Cys Asn Tyr Gln Tyr Ala
 180 185 190
 Leu Glu Asn Val Met Asp Pro Met His Gly Thr Tyr Leu His Ser Ser
 195 200 205
 Ser His Ser Met Ala Glu Gly Asp Arg Lys Ala Asp Met Val Leu Gln
 210 215 220
 Pro Thr Lys Thr Gly Phe Ile Phe Glu Lys Lys Gly Gln Ser Gly Val
 225 230 235 240
 Asn Phe Asp Trp Val Glu Leu Gly Asn Ser Gly Thr Cys Trp Met Arg
 245 250 255
 Leu Ser Ile Pro Tyr Lys Lys Arg Phe Gly Pro Gly Gly His Phe Phe
 260 265 270
 Ile Val Gly Met Val Val Pro Glu Asp Asn Asp Asn Cys Arg Val Phe
 275 280 285
 Phe Trp Arg Ile Arg Arg Val Gln Gly Trp Gln Arg Asp Met Trp Arg
 290 295 300
 Phe Met Tyr Arg Asn Arg Leu Glu Lys Leu His Trp Glu Val Leu Glu
 305 310 315 320
 Gln Asp Arg Val Val Leu Glu Ser Leu Ala Pro Asn Ala Arg Asp His
 325 330 335
 Glu Tyr Leu Tyr Gln His Asp Val Gly Leu Ser Arg Leu Arg Arg Met
 340 345 350
 Met Gln Lys Ala Ala Lys Glu Gln Leu Ala Met Arg Glu Ala Gln Gln
 355 360 365
 Gly Ala Ala
 370

<210> 9896

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 9896

Asp Val Thr Glu Glu Ser Val Met Thr Asp Ser Ile Val Thr Asn Lys
 1 5 10 15
 Thr Gly Ile Lys Pro Asp His Leu Thr Met Glu Glu Trp Val Glu Ser
 20 25 30
 Arg Ile Ala Arg Phe Glu Gly Arg Lys Tyr Asp Trp Asn Ala Leu Lys
 35 40 45
 Phe Gln Ala Asp Phe Asp Pro Lys Tyr Arg Arg Ala Gln Met Arg Tyr
 50 55 60
 Ile Gly Thr Gly Ala Thr Gly Val Ala Asn Asp Thr Asn Thr Val Gln
 65 70 75 80
 Ala Asp His Phe Thr Phe Ser Thr Met Val Leu Pro Ser Lys Cys Glu
 85 90 95
 Gly Pro Leu His Leu His Asp Asp Val Glu Glu Val Phe Phe Met Leu
 100 105 110
 Lys Gly Gln Ile Thr Leu Met Ile Gln Asp Gly Asp Asn Tyr Thr Glu
 115 120 125
 Thr Val Leu Arg Glu Arg Asp Leu Ile Ser Val Pro Pro Gly Ile Tyr
 130 135 140
 Arg Gly Leu Phe Asn His Gly Glu Glu Glu Ala Leu Met Cys Val Met
 145 150 155 160
 Leu Gly Thr Asn Lys Pro Glu Ile Pro Thr Tyr Pro Ser Asp His Pro
 165 170 175
 Leu Ser Lys Val Lys Arg Asn
 180

<210> 9897

<211> 260

<212> PRT

<213> *Enterobacter cloacae*

<400> 9897

Gly Gly Met Met Thr Gly Phe Arg Glu Gln Gly Ser Gly Ile Pro Leu
 1 5 10 15
 Met Leu Leu His Gly Ile Ser Ser Gly Ala Ala Ser Trp His Lys Gln
 20 25 30
 Met Ala Leu Asn Gly Phe Arg Val Leu Ala Trp Asp Met Pro Gly Tyr
 35 40 45
 Gly Glu Ser Pro Met Leu Ala Val Ala Arg Ala Asn Ala Gly Asp Tyr
 50 55 60
 Ala Asp Ala Leu Ala Ala Met Leu Asp Arg Ala Gly Val Trp Gln Ala
 65 70 75 80
 Val Leu Val Gly His Ser Leu Gly Ala Leu Val Ala Ser Ala Phe Ala
 85 90 95
 Ala Lys Phe Pro Asp Arg Val Ile His Leu Val Leu Ala Asp Ala Ala
 100 105 110
 Gln Gly Tyr Gly Asn Ala Ala Pro Glu Gln Arg Glu Gln Val Trp Arg
 115 120 125
 Asn Arg Glu Gln Gln Met Ala Leu Gly Gly Glu Ile Leu Ala Gln Thr
 130 135 140
 Arg Ala Pro Lys Leu Leu Arg Pro Gly Ala Arg Ala Glu Asp Ile Ala
 145 150 155 160
 Thr Val Ala Ala Gly Met Arg Val Leu Arg Pro Glu Gly Tyr Leu Ala
 165 170 175
 Ala Ser Trp Met Leu Ala His Asp Asp Ile His Gly Trp Leu Lys Arg
 180 185 190
 Tyr Ser Gly Ser Phe Glu Val Trp Cys Gly Glu Gln Asp Ala Ile Thr
 195 200 205
 Gln Pro Glu Leu Val Gln Gly Leu Ala Leu Arg Tyr Gly Met Pro Phe
 210 215 220
 Ile Ala Ile Pro Gln Ala Gly His Ala Ser Tyr Leu Asp Asn Asp Ala
 225 230 235 240
 Phe Phe Asn Gln Gln Leu Leu Arg Ile Asn Glu Glu Val Arg Asp Glu
 245 250 255
 Cys Thr Asn
 260

<210> 9898

<211> 395

<212> PRT

<213> *Enterobacter cloacae*

<400> 9898

Glu Ser Thr Arg Gly Phe Thr Met Ser Val Ile Lys Met Thr Asp Leu
 1 5 10 15
 Asp Leu Ala Gly Lys Arg Val Phe Ile Arg Ala Asp Leu Asn Val Pro
 20 25 30
 Val Lys Asp Gly Lys Val Thr Ser Asp Ala Arg Ile Arg Ala Ser Leu
 35 40 45
 Pro Thr Ile Glu Leu Ala Leu Lys Gln Gly Ala Lys Val Met Val Thr
 50 55 60
 Ser His Leu Gly Arg Pro Thr Glu Gly Glu Tyr Asn Glu Glu Phe Ser
 65 70 75 80
 Leu Leu Pro Val Val Asn Tyr Leu Lys Asp Lys Leu Ser Ser Pro Val
 85 90 95
 Arg Leu Val Lys Asp Tyr Leu Asp Gly Val Glu Val Ala Glu Gly Glu
 100 105 110
 Leu Val Val Leu Glu Asn Val Arg Phe Asn Lys Gly Glu Lys Lys Asp

115 120 125
 Asp Glu Thr Leu Ser Lys Lys Tyr Ala Ala Leu Cys Asp Val Phe Val
 130 135 140
 Met Asp Ala Phe Gly Thr Ala His Arg Ala Gln Ala Ser Thr His Gly
 145 150 155 160
 Ile Gly Lys Phe Ala Asp Val Ala Cys Ala Gly Pro Leu Leu Ala Asp
 165 170 175
 Glu Leu Glu Ala Leu Gly Lys Ala Leu Lys Glu Pro Ala Arg Pro Met
 180 185 190
 Val Ala Ile Val Gly Gly Ser Lys Val Ser Thr Lys Leu Thr Val Leu
 195 200 205
 Asp Ser Leu Ser Lys Ile Ala Asp Gln Leu Ile Val Gly Gly Gly Ile
 210 215 220
 Ala Asn Thr Phe Val Ala Ala Gln Gly His Asn Val Gly Lys Ser Leu
 225 230 235 240
 Tyr Glu Ala Asp Leu Val Asp Glu Ala Lys Arg Leu Leu Gly Thr Cys
 245 250 255
 Asp Ile Pro Val Pro Thr Asp Val Arg Val Ala Thr Glu Phe Ser Glu
 260 265 270
 Thr Ala Thr Ala Thr Leu Lys Ser Val Asn Asp Ile Lys Asp Glu Glu
 275 280 285
 Gln Ile Leu Asp Leu Gly Asp Val Ser Ala Gln Lys Leu Ala Glu Ile
 290 295 300
 Leu Lys Asn Ala Lys Thr Ile Leu Trp Asn Gly Pro Val Gly Val Phe
 305 310 315 320
 Glu Phe Pro Asn Phe Arg Lys Gly Thr Glu Ile Val Ala Asn Ala Ile
 325 330 335
 Ala Asp Ser Glu Ala Phe Ser Ile Ala Gly Gly Gly Asp Thr Leu Ala
 340 345 350
 Ala Ile Asp Leu Phe Gly Ile Ala Asp Lys Ile Ser Tyr Ile Ser Thr
 355 360 365
 Gly Gly Gly Ala Phe Leu Glu Phe Val Glu Gly Lys Val Leu Pro Ala
 370 375 380
 Val Ala Met Leu Glu Glu Arg Ala Lys Lys
 385 390 395

<210> 9899

<211> 285

<212> PR1

<213> Enterobacter cloacae

<400> 9899

Met Glu Gln Leu Asp Val Val Asp Ser Ile Asn Asn Ala Gly Asn Trp
 1 5 10 15
 Leu Val Arg Asn Gln Ala Leu Leu Ser Tyr Ala Val Asn Ile Val
 20 25 30
 Ala Ala Ile Ala Ile Ile Val Gly Met Ile Val Ala Arg Ile Val
 35 40 45
 Ser Asn Ala Val Asn Arg Val Met Val Ala Arg His Ile Asp Ala Thr
 50 55 60
 Val Ala Asp Phe Leu Ser Ala Leu Val Arg Tyr Gly Ile Ile Ala Phe
 65 70 75 80
 Thr Leu Ile Ala Ala Leu Gly Arg Val Gly Val Gln Thr Ala Ser Val
 85 90 95
 Ile Ala Val Leu Gly Ala Ala Gly Leu Ala Ile Gly Leu Ala Leu Gln
 100 105 110
 Gly Ser Leu Ser Asn Leu Ala Ala Gly Val Leu Leu Val Thr Phe Arg
 115 120 125
 Pro Phe Arg Ser Gly Glu Tyr Val Asp Leu Gly Gly Ile Ala Gly Thr
 130 135 140
 Val Leu Gln Val Gln Ile Phe Ser Thr Thr Leu Arg Thr Val Asp Gly

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145          150          155          160
Arg Ile Val Val Val Pro Asn Gly Lys Ile Ile Ala Gly Asn Ile Ile
          165          170          175
Asn Phe Ser Arg Glu Pro Val Arg Arg Asn Glu Leu Ile Ile Ser Val
          180          185          190
Ala Tyr Asp Ser Asp Ile Asp Gln Val Lys Ser Leu Ile Thr Asn Ile
          195          200          205
Ile Ala Ser Asp Asp Arg Ile Leu Lys Asp Arg Glu Gln Thr Val Arg
          210          215          220
Leu Asn Glu Leu Gly Ala Ser Ser Ile Asn Phe Val Val Arg Ile Trp
225          230          235          240
Ser Lys Ser Ser Asp Leu Gln Asn Val Tyr Trp Asp Val Leu Glu Arg
          245          250          255
Ile Lys Arg Asp Phe Asp Ala Asn Gly Ile Ser Phe Pro Tyr Pro Gln
          260          265          270
Met Asp Val Asn Val Lys Lys Val Lys Glu Ala Glu
          275          280          285

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<210> 9900

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9900

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Ala Leu Leu Thr Gly His Ser Ser Gln His Gly Gly Met Thr Val Lys
1          5          10          15
Phe Lys Val Met Ala Leu Ala Ala Leu Val Ser Leu Gly Ala Val Ser
          20          25          30
Val Gln Ala Asn Glu Leu Pro Asn Gly Pro His Ile Val Thr Ser Gly
          35          40          45
Thr Ala Ser Val Asp Ala Val Pro Asp Val Ala Thr Leu Ala Ile Glu
          50          55          60
Val Asn Val Ala Ala Lys Asp Ala Ala Ser Ala Lys Lys Gln Ala Asp
65          70          75          80
Asp Arg Val Ala Gln Tyr Leu Ser Phe Leu Glu Gln Asn Gly Val Ala
          85          90          95
Lys Lys Asp Ile Ser Ser Ala Asn Leu Arg Thr Gln Pro Asp Tyr Asp
          100          105          110
Tyr Gln Asn Gly Lys Ser Ile Leu Lys Gly Tyr Arg Ala Val Arg Thr
          115          120          125
Val Glu Val Thr Val Arg Gln Leu Asp Lys Leu Asn Gly Leu Leu Asp
          130          135          140
Gly Ala Leu Lys Ala Gly Leu Asn Glu Ile Arg Ser Val Ser Leu Gly
145          150          155          160
Val Ala Gln Pro Glu Lys Tyr Lys Asp Glu Ala Arg Lys Ala Ala Ile
          165          170          175
Asp Asp Ala Ile His Gln Ala Gln Gln Leu Ala Ser Gly Phe Lys Ser
          180          185          190
Lys Leu Gly Pro Val Tyr Ser Val Arg Tyr His Val Ser Asn Tyr Gln
          195          200          205
Pro Ser Pro Met Val Arg Met Met Lys Ala Asp Ala Pro Val Ser
          210          215          220
Ala Gln Glu Thr Tyr Glu Gln Pro Thr Ile Gln Phe Asp Asp Gln Val
225          230          235          240
Asp Val Val Phe Gln Leu Glu Pro Thr Gln Thr Gln Gln Thr Glu Ala
          245          250          255
Ala Lys Ala Gln
          260

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<210> 9901

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 9901

Arg Met Arg Met Ser Ile Gln Asn Glu Met Pro Gly Tyr Lys Asp Leu
 1 5 10 15
 Asn Gln Leu Leu Asn Gln Gln Gly Val Gly Leu Thr Pro Ala Glu Met
 20 25 30
 His Gly Leu Ile Ser Gly Ile Leu Cys Gly Gly Asn Ser Asp Ser Ser
 35 40 45
 Trp Gln Pro Leu Ile His Asp Leu Thr Asn Glu Arg Leu Ala Phe Gly
 50 55 60
 His Glu Leu Ala Glu Ala Leu Arg Lys Met His Ala Ala Thr Ser Asp
 65 70 75 80
 Ser Leu Glu Asp Asp Gly Phe Leu Phe Gln Leu Tyr Leu Pro Glu Gly
 85 90 95
 Asp Asp Val Ser Val Phe Asp Arg Ala Asp Ala Leu Ala Gly Trp Val
 100 105 110
 Asn His Tyr Leu Leu Gly Leu Gly Val Thr Gln Pro Lys Leu Glu
 115 120 125

<210> 9902

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 9902

Ser Ser Gly Thr Leu Ser Pro Arg Arg Trp Ala Ser Leu Thr Ala Ser
 1 5 10 15
 Ser Ala Arg Ser Arg Ser Ala Ile Ser Pro Ala Ser Thr Trp Arg Arg
 20 25 30
 Cys Thr Thr Cys Trp Pro Arg Ile Leu Thr Trp Trp Arg Cys Arg Ala
 35 40 45
 Ser Arg Pro Pro Ala Thr Pro Phe Arg Pro Arg Lys Cys Ala Val Tyr
 50 55 60
 Ser Arg His Ser Ser Phe Pro Gly Ser Gly Arg Leu Ser Arg Thr Pro
 65 70 75 80
 Pro Ser Arg Thr Ser Lys His Ile Ile Val Arg Val Arg Lys Ser His
 85 90 95
 Asn Tyr Gln Glu Phe Ile Met Asn Ile Val Arg Glu Ala Leu Ala Gly
 100 105 110
 Thr Gln Glu Ser Ser Asp Leu Met Val Lys Ile Ala Pro Ala His Gly
 115 120 125
 Glu Leu Glu Ile Val Ile His Ser Glu Val Ile Lys Gln Phe Gly Glu
 130 135 140
 Gln Ile Arg Gln Val Val Asn Asp Thr Leu Arg Ala Met Asn Val His
 145 150 155 160
 Gln Gly Leu Ile Ile Ile Glu Asp Lys Gly Ala Leu Asp Cys Val Ile
 165 170 175
 Arg Ala Arg Leu Gln Ser Ala Leu Leu Arg Ala Ala Asn Glu Gln Ala
 180 185 190
 Ile Asn Trp Gly Ala Leu Lys
 195 200

<210> 9903

<211> 556

<212> PRT

<213> Enterobacter cloacae

<400> 9903

Leu Arg Arg Gln Lys Arg Ala Ser Val Thr Ala Trp Ala Trp Cys Arg

1	5	10	15
Ser Thr Ala Lys Trp Trp Met His Arg Leu Leu Thr Thr Arg Arg Trp	20	25	30
Cys Trp Ser Ala Arg Arg Pro Pro Ala Cys Val Gly Lys Asp Asp Ile	35	40	45
Met Asn Gln Thr Glu Leu Leu His Met Asn Phe Pro His Leu Arg Asp	50	55	60
Leu Lys Pro Phe Asp Thr Ala His Ser Ala Thr Pro Trp Leu Ala Asp	65	70	75
Ser Glu Ala Lys His Ser Arg Lys Leu Cys Ala Ser Ile Glu Glu Ala	85	90	95
Val Lys Arg Cys Gly Leu Gln Asp Gly Met Thr Ile Ser Phe His His	100	105	110
Ala Phe Arg Glu Gly Asp Arg Val Ile Asn Thr Val Val Ala Leu Leu	115	120	125
Ala Arg Met Gly Phe Lys Asn Leu Thr Leu Ala Ser Ser Ser Leu Met	130	135	140
Thr Cys Asn Asp Ala Leu Ile Glu His Ile Glu Ser Gly Val Ile Thr	145	150	155
Arg Ile Tyr Thr Ser Gly Met Arg Gly Arg Leu Ala Asp Ala Ile Ser	165	170	175
His Gly Leu Met Glu Glu Pro Val Gln Ile His Ser His Gly Arg	180	185	190
Val Lys Leu Leu Gln Asp Gly Glu Leu Asn Ile Asp Val Ala Phe Leu	195	200	205
Gly Val Pro Cys Ser Asp Glu Phe Gly Asn Ala Asn Gly Thr His Gly	210	215	220
Lys Ser Cys Cys Gly Ser Leu Gly Tyr Ala Met Val Asp Ala Gln Phe	225	230	235
Ala Arg Lys Val Val Leu Leu Thr Glu Ala Leu Val Pro Phe Pro Asn	245	250	255
Met Pro Ala Ser Leu Val Gln Asp Gln Val Asp Tyr Ile Val Gln Val	260	265	270
Glu Ser Val Gly Asp Pro Ala Lys Ile Ser Val Gly Ala Ala Arg Val	275	280	285
Thr Ser Asn Pro Arg Glu Leu Met Ile Ala Arg Tyr Ala Ala Asp Val	290	295	300
Ile Glu His Ser Gly Tyr Phe Lys Pro Gly Phe Ser Met Gln Thr Gly	310	315	320
Ser Gly Ala Ala Ala Thr Ala Cys Thr Arg Phe Met Glu Glu Lys Met	325	330	335
Glu Arg Ser Gly Val Lys Ala Arg Phe Ala Leu Gly Gly Ile Thr Gly	340	345	350
Ser Leu Val Asp Leu His Glu Lys Gly Leu Ile Glu Lys Leu Leu Asp	355	360	365
Thr Gln Cys Phe Asp Gly Gln Ala Ala Ala Ser Leu Ala Arg Asn Pro	370	375	380
Asn His Val Glu Ile Ser Thr Asn Val Tyr Ala Asn Pro Gly Ser Lys	385	390	395
Ala Ala Ser Cys Asp Gln Leu Asp Val Val Ile Leu Ser Ala Leu Glu	405	410	415
Ile Asp Val Asp Phe Asn Val Asn Val Ile Thr Gly Ser Asp Gly Val	420	425	430
Met Arg Gly Ala Ser Gly Gly His Cys Asp Val Ala Ala Ala Asn	435	440	445
Leu Thr Ile Val Val Ala Pro Leu Leu Arg Ser Arg Ile Pro Thr Val	450	455	460
Val Lys Arg Val Thr Thr Arg Leu Thr Pro Gly Glu Ser Ile Asp Val	465	470	475
Leu Val Thr Asp His Gly Ile Ala Val Asn Pro Ala Arg Pro Glu Ile	485	490	495

Arg Glu Arg Leu Met Glu Ala Gly Met Lys Val Val Asp Ile Asn Ala
 500 505 510
 Leu Tyr Glu Arg Ala Ile Ser Leu Thr Gly Val Pro Lys Pro Ile Glu
 515 520 525
 Phe Thr Asp Lys Ile Val Gly Val Ile Arg Tyr Arg Asp Gly Ser Val
 530 535 540
 Ile Asp Thr Val Arg Gln Val Lys Glu Glu Val
 545 550 555

<210> 9904

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 9904

Ser Met Thr Gly Leu Leu Ala Thr Lys Pro Arg Pro Val Asp Val Pro
 1 5 10 15
 Ala Leu Ala Glu Ala Ala Leu Trp Gln Glu Leu Glu Leu Thr Pro Lys
 20 25 30
 Pro Gly Leu Val Asp Arg Leu Asn Asn Gly Ser His Arg Asp Met Asp
 35 40 45
 His Ala Leu Phe Val Arg Ser Ile Met Ala Ile Thr Pro Trp Phe Ala
 50 55 60
 Arg Phe Ala Glu Leu Gly Glu Ala His Ala Ala Lys Pro Ala Asp Arg
 65 70 75 80
 Gln Leu Arg Ile Leu Arg Pro Met Gly Met Ala Cys Glu Gln Ala Met
 85 90 95
 Tyr Ala Ala Thr Gly Gly Val Asn Thr His Lys Gly Gly Ile Phe Ala
 100 105 110
 Leu Gly Leu Leu Cys Phe Ala Ala Gly Arg Val Lys Asn Ile Ser Ala
 115 120 125
 Asp Ser Leu Cys Cys Glu Val Ser His Ile Cys Arg Gly Leu Val Ala
 130 135 140
 Arg Glu Leu Ala Gly Arg Ser Gly Gln Ala Thr Ala Gly Glu Arg Gln
 145 150 155 160
 Phe Gln His Tyr Gly Leu Thr Gly Ala Arg Gly Glu Ala Glu Ser Gly
 165 170 175
 Phe Ala Thr Val Arg Lys Ala Leu Gly Gln Trp Asn Gly Gln Leu Leu
 180 185 190
 His Asp Leu Leu Arg Leu Met Ala Val Asn Gln Asp Ser Asn Leu
 195 200 205
 Val Ser Arg Gly Gly Ile Gln Gly Leu Arg Tyr Val Gln Gly Tyr Ala
 210 215 220
 Arg Glu Leu Leu Ala Asn Cys Trp Asp Arg Glu Ala Leu Leu Lys Met
 225 230 235 240
 Asp Lys Ala Leu Ile Glu Arg Asn Leu Ser Pro Gly Gly Ser Ala Asp
 245 250 255
 Leu Leu Ser Val Gly Trp Val Leu Ser Ala Ile Lys
 260 265

<210> 9905

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 9905

Ser Met Asp Val Glu Ile Val Ala Leu Ser Val Lys His Asn Val
 1 5 10 15
 Ser Asp Leu His Leu Cys Ser Asp Ser Pro Pro Arg Trp Arg Arg Ser
 20 25 30
 Gly Arg Leu Glu Pro Ala Pro Phe Pro Pro Pro Asp Val Glu Ala Leu

35 40 45
 Leu Lys Ala Trp Leu Asn Asp Glu Gln Gln Gly Ala Trp Trp Ala Asn
 50 55 60
 Gly Gln Val Asp Phe Ala Val Thr Leu Ala Asp Arg Gln Arg Leu Arg
 65 70 75 80
 Gly Ser Ala Phe Lys His Met His Gly Val Ser Ile Ala Leu Arg Leu
 85 90 95
 Leu Pro Leu Thr Cys Pro Gln Leu Ser Ala Leu Gly Val Pro Arg Ala
 100 105 110
 Ile Pro Glu Leu Leu Ser Asn Asp Asn Gly Leu Ile Leu Val Thr Gly
 115 120 125
 Ala Thr Gly Ser Gly Lys Ser Thr Thr Leu Ala Ala Met Val Asp Phe
 130 135 140
 Leu Asn His Gln Thr Asp Gly His Ile Leu Thr Leu Glu Asp Pro Val
 145 150 155 160
 Glu Phe Met Tyr Gln Ser Glu Arg Cys Leu Ile Gln Gln Arg Glu Ile
 165 170 175
 Gly Leu His Ser Pro Ser Phe Ala Glu Ala Leu Arg Ser Ala Leu Arg
 180 185 190
 Glu Asp Pro Asp Val Ile Leu Leu Gly Glu Leu Arg Asp Ser Glu Thr
 195 200 205
 Ile Arg Leu Ala Leu Thr Ala Ala Glu Thr Gly His Leu Val Leu Ala
 210 215 220
 Thr Leu His Thr Arg Gly Ala Ala Gln Ala Ile Glu Arg Leu Val Asp
 225 230 235 240
 Thr Phe Pro Ala Gln Glu Lys Asp Pro Val Arg Asn Gln Leu Ala Gly
 245 250 255
 Ser Leu Arg Ala Val Leu Ala Gln Lys Leu Arg Gln Asp Val Gln Gly
 260 265 270
 Gly Arg Val Ala Leu Tyr Glu Leu Leu Val Asn Thr Ser Ala Ala Ala
 275 280 285
 Asn Leu Ile Arg Glu Gly Lys Thr Trp Gln Leu Pro Gly Ile Ile Gln
 290 295 300
 Thr Gly Gln Gln Ala Gly Met Gln Asn Phe Glu Gln Ser Leu Ala Glu
 305 310 315 320
 Arg Arg Ala Gln Gly Arg Leu
 325

<210> 9906

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 9906

Phe Tyr Gln Gly Leu Gln Asp Phe Asp Thr Gly Ser Leu Ser Val Asn
 1 5 10 15
 Arg Tyr Gly Trp Ile Asn Ile Trp Thr Ser Ile Leu Gly His Phe Phe
 20 25 30
 Thr Arg Phe Pro Val Phe Phe Asp Ser Pro Leu Ile Ala Leu Lys Thr
 35 40 45
 Leu Leu Glu Ile Phe Pro Asp Asp Ala Gly Asn Leu Arg Ile Phe Val
 50 55 60
 Leu Leu Phe Ser Asp Leu Leu Gly Ile Lys Arg Gly Ala Arg Leu Ile
 65 70 75 80

<210> 9907

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 9907

Thr Arg Ala Leu Leu Leu Ile Gln Glu Phe Ser Arg Gly Phe Ala Glu
 1 5 10 15
 Pro Cys His Thr Glu Phe Gly Tyr Val Phe Tyr Asn Asp Met Asn Lys
 20 25 30
 Lys Pro Val Ala Arg Ser Gly Phe Gln His Thr Leu Leu Gly Asn Gly
 35 40 45
 Ala Val Asn Gly Leu Leu Ser Pro Tyr Asn Ala Ala Ile Val Val Asn
 50 55 60
 Cys Phe Thr Leu Asn Thr Lys Ser
 65 70

<210> 9908

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 9908

Pro Arg His Ala Pro Ser Ala Glu Lys Ala Gly Gly Gly Met Thr Ser
 1 5 10 15
 Arg Ile Val Ile Ile Gly Gly Gly Gln Ser Gly Gly Trp Ala Ala Lys
 20 25 30
 Thr Leu Arg Asp Glu Gly Phe Asp Gly Glu Ile Cys Val Val Ala Glu
 35 40 45
 Glu Glu Trp Asp Phe Tyr Glu Arg Pro Pro Leu Ser Lys Ala Ser Leu
 50 55 60
 Leu Glu Pro Asp Ala Ala Leu Pro Arg Leu Phe Thr Asp Glu Val Gln
 65 70 75 80
 Gln Ala Leu Asn Leu Thr Trp Tyr Arg Pro Leu Arg Ala Glu Ser Val
 85 90 95
 Asp Arg Val Glu Lys Lys Val Leu Leu Ser Asn Gly Glu Gln Leu Ser
 100 105 110
 Tyr Asn Ile Leu Leu Ile Ala Thr Gly Gly Arg Ala Arg Leu Pro Ser
 115 120 125
 Gln Ala Trp Ala Ser His Pro Gln Val Tyr Thr Leu Arg His Trp Gln
 130 135 140
 Asp Ala Gln Arg Leu Lys Ser Arg Leu Ser Glu Ser His Lys Leu Ala
 145 150 155 160
 Ile Ile Gly Gly Gly Trp Ile Gly Leu Glu Ile Ala Ala Ser Ala Arg
 165 170 175
 Lys Ser Gly Val Ala Val Thr Leu Phe Glu Gln Gln Pro Ala Leu Cys
 180 185 190
 Met Arg Ser Val Ser Gly Glu Val Ser Gln Arg Leu Glu Ala Ile His
 195 200 205
 Arg Glu Gln Gly Val Glu Ile Arg Thr Gly Cys Gly Ala Leu Glu Leu
 210 215 220
 Glu Asp Asp Gly Gly Leu Pro Val Val His Cys Asp Gly Asn Arg Glu
 225 230 235 240
 Thr Phe Asp Ala Val Val Val Gly Ile Gly Val Asp Leu Asn Leu Glu
 245 250 255
 Leu Ala Arg Asp Ala Gly Leu Lys Thr Gly Arg Gly Ile Val Val Asp
 260 265 270
 Ala Gln Gly Arg Thr Ser Asp Pro Phe Ile Phe Ala Ala Gly Asp Val
 275 280 285
 Ala Gln His His Tyr Gly Leu Cys Ile Gln Ser Trp Ala Phe Ala
 290 295 300
 Gln Asn Gln Ala Val Ala Thr Ala Lys Ala Met Leu Asn Pro Asp Ala
 305 310 315 320
 Pro Gly Tyr Asp Asp Ala Pro Trp Leu Trp Ser Asp Gln Tyr Gln His
 325 330 335

Asn Ile Gln Ile Leu Gly Ile Pro Gln Ala Gly Cys Arg Thr Ile Leu
 340 345 350
 Arg Glu Glu Ala Leu Tyr Phe Ser Leu Asp Asp Asn Gly Arg Leu Thr
 355 360 365
 Gln Leu Val Ala Phe Asn Asp Ala Arg Thr Val Lys Leu Ala Lys Arg
 370 375 380
 Trp Met Ala Ala Gly Arg Asp Leu Ser Asp Val Pro Leu Ala Asp Pro
 385 390 395 400
 Thr Phe Ser Leu Met Ser Leu Arg
 405

<210> 9909

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 9909

Ser Val Ile Pro Ala Val Leu Lys Ser Gly Ala Ala Ser Arg Met Pro
 1 5 10 15
 Ser Pro Ser Arg Ser Trp Phe Arg Val Trp Arg Cys Ala Thr Ala Cys
 20 25 30
 Arg Leu Ser Pro Phe Arg Arg Pro Gly Thr Pro Ala Ile Ser Ile Thr
 35 40 45
 Thr Arg Phe Ser Thr Asn Ser Phe Tyr Ala Leu Thr Lys Arg Cys Ala
 50 55 60
 Met Asn Ala Gln Ile Asp Gly Arg Val Ala Val Val Thr Gly Gly Ser
 65 70 75 80
 Ser Gly Ile Gly Phe Glu Thr Leu Arg Leu Leu Gly Glu Gly Ala
 85 90 95
 Lys Val Ala Phe Cys Gly Arg Asp Gly Asp Arg Leu Ala Ser Ala His
 100 105 110
 Ala Thr Leu Gln Asn Glu Phe Pro His Gly Glu Ile Phe Ala Phe Arg
 115 120 125
 Cys Asp Val Leu Asn Ala Asp Glu Val Gln Ala Phe Ala Asp Ala Val
 130 135 140
 Gln Ala Arg Phe Gly Ala Ala Asp Met Leu Ile Asn Asn Ala Gly Gln
 145 150 155 160
 Gly Tyr Val Ala His Phe His Asp Thr Pro Arg Glu Ala Trp Leu His
 165 170 175
 Glu Ala Glu Leu Lys Leu Phe Gly Val Ile Asn Pro Val Gln Ala Phe
 180 185 190
 Gln Pro Leu Leu Glu Arg Ser Asp Ile Ala Ser Ile Thr Cys Val Asn
 195 200 205
 Ser Leu Leu Ala Leu Gln Pro Glu Glu His Met Ile Ala Thr Ser Ala
 210 215 220
 Ala Arg Ala Ala Leu Leu Asn Met Thr Leu Thr Leu Ser Lys Glu Leu
 225 230 235 240
 Val Gly Lys Gly Ile Arg Val Asn Ser Ile Leu Leu Gly Met Val Glu
 245 250 255
 Ser Gly Gln Trp Gln Arg Arg Phe Glu Ser Arg Ala Asp Lys Ser Gln
 260 265 270
 Ser Trp Pro Glu Trp Thr Ala Glu Ile Ala Arg Lys Arg Gly Ile Pro
 275 280 285
 Met Ala Arg Leu Gly Lys Pro Gln Glu Pro Ala Gln Ala Leu Leu Phe
 290 295 300
 Leu Ala Ser Pro Leu Ala Ser Phe Thr Thr Gly Ala Ala Leu Asp Val
 305 310 315 320
 Ser Gly Gly Phe Cys Arg His Leu
 325

<210> 9910

<211> 260
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9910

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Gly His Ile Met Lys Lys Val Met Leu Ile Gly Leu Gly Ala Met Ala
1      5      10      15
Gln Ala Val Ile Glu Arg Leu Pro Ala Gly Val Ala Ile Gly Trp Ile
20     25     30
Val Ala Arg Ala Ser His His Pro Ala Ile His Asp Gln Phe Gly Asp
35     40     45
Ala Val Glu Ala Leu Thr Ser Pro Met Ala Cys Ala Gln Thr Pro Asp
50     55     60
Leu Val Leu Glu Cys Ala Ser Gln Glu Ala Val Ala Gln Tyr Gly Glu
65     70     75     80
Glu Ile Leu Arg Arg Gly Trp His Leu Ala Ile Ile Ser Thr Gly Ala
85     90     95
Leu Ala Asp Ser Ala Leu Glu Gln Arg Leu Leu Ala Ala Gly Gly Lys
100    105    110
Leu Thr Leu Leu Ser Gly Ala Val Ala Gly Ile Asp Gly Leu Ala Ala
115    120    125
Ala Lys Glu Gly Gly Leu Glu Arg Val Thr Tyr Gln Ser Arg Lys Ser
130    135    140
Pro Ala Ser Trp Arg Gly Ser Tyr Ala Glu Gln Leu Ile Asp Leu Asn
145    150    155    160
Ala Val Ser Glu Ala Lys Val Phe Phe Glu Gly Ser Ala Arg Glu Ala
165    170    175
Ala Arg Leu Phe Pro Ala Asn Ala Asn Val Ala Ala Thr Val Ala Leu
180    185    190
Gly Gly Val Gly Met Glu Asp Thr Arg Val Gln Leu Met Val Asp Pro
195    200    205
Ala Thr Lys Arg Asn Thr His Thr Leu His Val Glu Gly Leu Phe Gly
210    215    220
Glu Phe His Leu Glu Leu Ser Gly Leu Pro Leu Ala Ser Asn Pro Lys
225    230    235    240
Thr Ser Thr Leu Ala Ala Leu Ser Ala Val Arg Ala Cys Arg Glu Leu
245    250    255
Ala Leu Ser
260

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<210> 9911
 <211> 493
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9911

```

Gly Val Thr Met Asp Asp Leu Lys Ile Phe Ile Gly Gly Gln Trp Arg
1      5      10      15
Arg Gly Gly Gly Asn Pro Met Gln Ser His Phe Pro Ala Asp Gly Ser
20     25     30
Leu Asn Ala Thr Leu Asn Ala Ala Ser Leu Asp Asp Leu Glu Glu Ala
35     40     45
Val Ala Ala Gly Glu Arg Ala Trp Arg Asp Pro Ala Trp Arg Asn Ser
50     55     60
Leu Pro His Met Arg Ala Lys Ile Leu His Lys Val Ala Asp Leu Ile
65     70     75     80
Glu Ser Arg Val Asp Ala Leu Ala Gln Met Gln Ser Arg Asp Asn Gly
85     90     95
Lys Pro Leu Ala Glu Ala Arg Gly Leu Val Met Ser Ala Ala Gly Thr
100    105    110
Ala Arg Tyr Phe Ala Ala Ala Cys Glu Leu Leu Glu Gly Glu Leu Pro

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115          120          125
Thr Pro Arg Gln Pro Asp Leu Leu Thr Leu Ser Cys Tyr Glu Pro Leu
130          135          140
Gly Val Val Ala Ala Ile Thr Pro Trp Asn Ser Pro Ile Ala Ser Glu
145          150          155          160
Met Gln Lys Val Ala Pro Ala Ile Ala Ala Gly Asn Ala Val Ile Leu
165          170          175
Lys Pro Ala Glu Ala Thr Pro Leu Met Ala Leu Glu Leu Ala Arg Ile
180          185          190
Phe Lys Gln Ala Gly Leu Pro Ala Gly Leu Leu Ser Val Leu Pro Gly
195          200          205
Lys Gly Ser Val Ile Gly Asp Ala Leu Ala Arg His Pro Arg Val Arg
210          215          220
Lys Ile Ser Phe Thr Gly Gly Thr Thr Thr Gly Arg His Leu Ala His
225          230          235          240
Val Ala Ala Glu Lys Leu Ile Pro Ala Ser Leu Glu Leu Gly Gly Lys
245          250          255
Ser Pro Thr Ile Val Leu Glu Asp Ala Asp Ile Glu Gln Ala Ala Arg
260          265          270
Gly Ile Cys Tyr Gly Ile Phe Ser Ser Ala Gly Gln Ala Cys Ile Ala
275          280          285
Gly Ser Arg Leu Phe Ile His Glu Ser Ile Tyr Ala Pro Leu Met Ala
290          295          300
Arg Leu Leu Glu Leu Thr Arg Gly Leu Arg Val Gly His Pro Phe Thr
305          310          315          320
Asp Gly Val His Val Gly Pro Leu Ile Asn Glu Lys His Arg Gln Ser
325          330          335
Val Ile Gln Tyr Val Glu Leu Ala Lys Arg Glu Gly Arg Val Leu
340          345          350
Cys Gly Gly Glu Ile Pro Ala Asp Pro Ala Leu Val Asn Gly Ser Phe
355          360          365
Phe Leu Pro Thr Ile Ile Glu Gly Leu Ser Asn Ser Ala Arg Ala Cys
370          375          380
Gln Glu Glu Ile Phe Gly Pro Val Leu Val Ala Met Pro Phe Gly Asp
385          390          395          400
Glu Ala Thr Leu Ile His Glu Ala Asn Asp Ser Val Tyr Gly Leu Ala
405          410          415
Ala Gly Ile Trp Thr Arg Asp Thr Gly Arg Ala Leu Arg Leu Ser Glu
420          425          430
Gln Leu Glu Ala Gly Thr Val Trp Ile Asn Thr Tyr Lys Val Phe Ala
435          440          445
Ile Ser Thr Pro Phe Gly Gly Phe Lys Glu Ser Gly Leu Gly Arg Glu
450          455          460
Lys Gly Ile Gln Gly Leu Lys Ala Trp Met Gln Gln Lys Ser Ile Tyr
465          470          475          480
Leu Ala Thr Gly Asn Ser Val Asn His Trp Cys Asp
485          490

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<210> 9912

<211> 728

<212> PRT

<213> Enterobacter cloacae

<400> 9912

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Gly Ile Ser Thr Gly Ala Gly Glu Gln Ile Ala Gln His Ala Ser Met
1          5          10          15
Ile Gln Arg Phe Leu Lys Gln Gln Lys Asn Ala Pro Cys Thr Cys Pro
20          25          30
Ala Ala Trp Val Thr Leu Leu Ala Leu Phe Ser Gly Val Ala Gln Asn
35          40          45
Ala Leu Ser Ser Arg Ala Trp Pro Leu Thr Val Arg Ser Gly Val Lys

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50	55	60
Met Ser Ser Arg Lys Glu	Leu Ala Asn Ala Ile Arg Ala Leu Ser Met	
65	70	75
Asp Ala Val Gln Lys Ala Lys Ser Gly His Pro Gly Ala Pro Met Gly		80
	85	90
Met Ala Asp Ile Ala Glu Val Leu Trp Arg Asp Phe Leu Asn His Asn		95
	100	105
Pro Gln Asn Pro Ala Trp Ala Asp Arg Asp Arg Phe Val Leu Ser Asn		110
	115	120
Gly His Gly Ser Met Leu Ile Tyr Ser Leu Leu His Leu Thr Gly Tyr		125
	130	135
Asp Leu Pro Ile Glu Glu Leu Lys Asn Phe Arg Gln Leu His Ser Lys		140
	145	150
Thr Pro Gly His Pro Glu Val Gly Tyr Thr Ala Gly Val Glu Thr Thr		155
	165	170
Thr Gly Pro Leu Gly Gln Gly Ile Ala Asn Ala Val Gly Met Ala Ile		175
	180	185
Ala Glu Lys Thr Leu Ala Ala Gln Phe Asn Arg Pro Gly His Asp Ile		190
	195	200
Val Asp His Phe Thr Tyr Ala Phe Leu Gly Asp Gly Cys Met Met Glu		205
	210	215
Gly Ile Ser His Glu Val Cys Ser Leu Ala Gly Thr Leu Lys Leu Gly		220
	225	230
Lys Leu Val Ala Phe Tyr Asp Asp Asn Gly Ile Ser Ile Asp Gly His		235
	245	250
Val Glu Gly Trp Phe Thr Asp Asp Thr Ala Ala Arg Phe Glu Ala Tyr		255
	260	265
Gly Trp His Val Val Arg Gly Val Asp Gly His Asp Ala Asp Ser Ile		270
	275	280
Lys Arg Ala Val Glu Glu Ala Arg Ala Val Thr Asp Lys Pro Ser Leu		285
	290	295
Leu Met Cys Lys Thr Ile Ile Gly Phe Gly Ser Pro Asn Lys Ala Gly		300
	305	310
Thr His Asp Ser His Gly Ala Pro Leu Gly Asp Ala Glu Ile Ala Leu		315
	325	330
Thr Arg Glu Ala Leu Gly Trp Lys His Pro Ala Phe Glu Ile Pro Ser		335
	340	345
Glu Ile Tyr Ala Gln Trp Asp Ala Lys Glu Val Gly Gln Ala Lys Glu		350
	355	360
Ala Ala Trp Asn Glu Lys Phe Ala Ala Tyr Ala Lys Ala Phe Pro Gln		365
	370	375
Glu Ala Ala Glu Phe Thr Arg Arg Met Lys Gly Asp Met Pro Ser Asp		380
	385	390
Phe Asp Ala Lys Ala Asn Glu Phe Ile Ala Lys Leu Gln Ala Asn Pro		395
	405	410
Ala Lys Ile Ala Ser Arg Lys Ala Ser Gln Asn Ala Ile Glu Ala Phe		415
	420	425
Gly Pro Leu Leu Pro Glu Phe Leu Gly Gly Ser Ala Asp Leu Ala Pro		430
	435	440
Ser Asn Leu Thr Leu Trp Ser Gly Ser Lys Pro Ile Asn Glu Asp Thr		445
	450	455
Ala Gly Asn Tyr Ile His Tyr Gly Val Arg Glu Phe Gly Met Thr Ala		460
	465	470
Ile Ala Asn Gly Ile Ala Leu His Gly Gly Phe Leu Pro Tyr Thr Ser		475
	485	490
Thr Phe Leu Met Phe Val Glu Tyr Ala Arg Asn Ala Val Arg Met Ala		495
	500	505
Ala Leu Met Lys Gln Arg Gln Val Met Val Tyr Thr His Asp Ser Ile		510
	515	520
Gly Leu Gly Glu Asp Gly Pro Thr His Gln Pro Val Glu Gln Val Ala		525
	530	535
		540

Ser Leu Arg Val Thr Pro Asn Met Ser Thr Trp Arg Pro Cys Asp Gln
 545 550 555 560
 Val Glu Ser Ala Val Ala Trp Lys Tyr Gly Val Glu Arg Gln Asp Gly
 565 570 575
 Pro Thr Ala Leu Ile Leu Ser Arg Gln Asn Leu Ala Gln Gln Glu Arg
 580 585 590
 Thr Pro Glu Gln Leu Ala Asn Ile Ala Arg Gly Gly Tyr Val Leu Lys
 595 600 605
 Asp Cys Ala Gly Gln Pro Glu Leu Ile Phe Ile Ala Thr Gly Ser Glu
 610 615 620
 Val Glu Leu Ala Val Ala Ala Trp Glu Lys Leu Thr Ala Glu Gly Val
 625 630 635 640
 Lys Ala Arg Val Val Ser Met Pro Ser Thr Asp Ala Phe Asp Lys Gln
 645 650 655
 Asp Ala Ala Tyr Arg Glu Ser Val Leu Pro Lys Ala Val Ser Ala Arg
 660 665 670
 Val Ala Val Glu Ala Gly Ile Ala Asp Tyr Trp Phe Lys Tyr Val Gly
 675 680 685
 Leu Asn Gly Ala Ile Val Gly Met Thr Thr Phe Gly Glu Ser Ala Pro
 690 695 700
 Ala Glu Gln Leu Phe Glu Glu Phe Gly Phe Thr Val Glu Asn Val Val
 705 710 715 720
 Ala Lys Ala Lys Glu Leu Leu
 725

<210> 9913

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 9913

Tyr Tyr Pro Phe Pro Leu Met Thr Phe Pro Gln Tyr Ser Leu Pro Pro
 1 5 10 15
 Gly Gln Leu Cys Glu Asn Tyr Val Met Leu Ser Tyr Tyr Phe Gln Gly
 20 25 30
 Leu Val Leu Gly Ala Ala Met Ile Leu Pro Leu Gly Pro Gln Asn Ala
 35 40 45
 Phe Val Met Asn Gln Gly Ile Arg Arg Gln Tyr His Leu Met Ile Ala
 50 55 60
 Leu Leu Cys Ala Val Ser Asp Leu Leu Leu Ile Cys Ala Gly Ile Phe
 65 70 75 80
 Gly Gly Ser Ala Leu Leu Met Gln Ser Pro Trp Leu Leu Ala Leu Val
 85 90 95
 Thr Trp Gly Gly Val Ala Phe Leu Leu Trp Tyr Gly Phe Gly Ala Leu
 100 105 110
 Lys Thr Ala Met Ser Ser Asn Leu Glu Leu Ala Ser Ala Glu Val Met
 115 120 125
 Lys Gln Gly Arg Trp Lys Ile Ile Val Thr Met Leu Ala Val Thr Trp
 130 135 140
 Leu Asn Pro His Val Tyr Leu Asp Thr Phe Val Val Leu Gly Ser Leu
 145 150 155 160
 Gly Gly Gln Leu Asp Val Glu Pro Lys Arg Trp Phe Ala Leu Gly Thr
 165 170 175
 Val Ser Ala Ser Phe Leu Trp Phe Phe Gly Leu Ala Ile Leu Ala Ala
 180 185 190
 Trp Leu Ala Pro Arg Leu Arg Thr Ala Lys Ala Gln Arg Ile Ile Asn
 195 200 205
 Thr Leu Val Gly Leu Val Met Trp Phe Ile Ala Phe Gln Leu Ala Lys
 210 215 220
 Glu Asp Ile His His Val Gln Gly Leu Phe Asn
 225 230 235

<210> 9914
 <211> 232
 <212> PRT
 <213> Enterobacter cloacae

<400> 9914
 Cys Ala Leu Ser Phe His Thr Thr Gly Lys Thr Ile Met Thr Gln Asp
 1 5 10 15
 Glu Leu Lys Lys Ala Val Gly Trp Ala Ala Leu Gln Tyr Val Gln Pro
 20 25 30
 Gly Thr Ile Val Gly Val Gly Thr Gly Ser Thr Ala Ala His Phe Ile
 35 40 45
 Asp Ala Leu Gly Thr Met Lys Gly Gln Ile Glu Gly Ala Val Ser Ser
 50 55 60
 Ser Asp Ala Ser Thr Glu Lys Leu Lys Ser Leu Gly Ile Thr Val Phe
 65 70 75 80
 Asp Leu Asn Glu Val Asp Arg Leu Gly Ile Tyr Val Asp Gly Ala Asp
 85 90 95
 Glu Ile Asn Gly His Met Gln Met Ile Lys Gly Gly Ala Ala Leu
 100 105 110
 Thr Arg Glu Lys Ile Ile Ala Ser Val Ala Asp Lys Phe Ile Cys Ile
 115 120 125
 Ala Asp Ala Ser Lys Gln Val Asp Ile Leu Gly Asn Phe Pro Leu Pro
 130 135 140
 Val Glu Val Ile Pro Met Ala Arg Ser Ala Val Ala Arg Gln Leu Val
 145 150 155 160
 Lys Leu Gly Gly Arg Pro Glu Tyr Arg Gln Gly Val Val Thr Asp Asn
 165 170 175
 Gly Asn Val Ile Leu Asp Val His Gly Leu Glu Ile Leu Asp Ala Ile
 180 185 190
 Ala Leu Glu Asn Ala Ile Asn Gly Ile Pro Gly Val Val Thr Val Gly
 195 200 205
 Leu Phe Ala Asn Arg Gly Ala Asp Val Ala Leu Ile Gly Thr Ala Asp
 210 215 220
 Gly Val Lys Thr Ile Val Lys
 225 230

<210> 9915
 <211> 411
 <212> PRT
 <213> Enterobacter cloacae

<400> 9915
 Met Ala Lys Val Ser Leu Glu Lys Asp Lys Ile Lys Phe Leu Leu Val
 1 5 10 15
 Glu Gly Val His Gln Lys Ala Leu Asp Ser Leu Arg Ala Ala Gly Tyr
 20 25 30
 Thr Asn Ile Glu Phe His Lys Gly Ala Leu Asp Thr Glu Glu Leu Lys
 35 40 45
 Ala Ser Ile Arg Asp Ala His Phe Ile Gly Leu Arg Ser Arg Thr Gln
 50 55 60
 Leu Thr Glu Asp Val Ile Ala Ala Ala Glu Lys Leu Val Ala Ile Gly
 65 70 75 80
 Cys Phe Cys Ile Gly Thr Asn Gln Val Asp Leu Asn Ala Ala Lys
 85 90 95
 Arg Gly Ile Pro Val Phe Asn Ala Pro Phe Ser Asn Thr Arg Ser Val
 100 105 110
 Ala Glu Leu Val Ile Gly Glu Leu Leu Leu Leu Arg Gly Ile Pro
 115 120 125
 Glu Ala Asn Ala Lys Ala His Arg Gly Val Trp Asn Lys Leu Ala Ala

130	135	140
Gly Ser Tyr Glu Ala Arg	Gly Lys Lys Leu Gly	Ile Ile Gly Tyr Gly
145	150	155
His Ile Gly Thr Gln Leu	Gly Ile Leu Ala Glu	Ser Leu Gly Met His
165	170	175
Val Phe Phe Tyr Asp Ile	Glu Ser Lys Leu Pro	Leu Gly Asn Ala Thr
180	185	190
Gln Val Gln His Leu Ser	Asp Leu Leu Asn Met	Ser Asp Val Val Ser
195	200	205
Leu His Val Pro Glu Asn	Ala Ser Thr Lys Asn	Met Met Gly Ala Glu
210	215	220
Glu Leu Ala Leu Met Lys	Pro Gly Ser Leu Leu	Ile Asn Ala Ala Arg
225	230	235
Gly Thr Val Val Asp Ile	Pro Ala Leu Cys Asp	Ala Leu Lys Arg Lys
245	250	255
His Leu Ala Gly Ala Ala	Ile Asp Val Phe Pro	Thr Glu Pro Ala Thr
260	265	270
Asn Ser Asp Pro Phe Thr	Ser Pro Leu Cys Glu	Phe Asp Asn Val Ile
275	280	285
Leu Thr Pro His Ile Gly	Gly Ser Thr Gln Glu	Ala Gln Glu Asn Ile
290	295	300
Gly Leu Glu Val Ala Gly	Lys Leu Ser Lys Tyr	Ser Asp Asn Gly Ser
305	310	315
Thr Leu Ser Ala Val Asn	Phe Pro Glu Val Ser	Leu Pro Leu His Gly
325	330	335
Gly Arg Arg Leu Leu His	Ile His Glu Asn Arg	Pro Gly Val Leu Thr
340	345	350
Ala Ile Asn Gln Ile Phe	Ala Glu Gln Gly Val	Asn Ile Ala Ala Gln
355	360	365
Tyr Leu Gln Thr Asn Ser	Gln Met Gly Tyr Val	Val Ile Asp Ile Glu
370	375	380
Ala Asp Glu Asp Ile Ala	Glu Lys Ala Leu Gln	Ser Met Lys Ala Ile
385	390	395
Pro Gly Thr Ile Arg Ala	Arg Leu Leu Tyr	
405	410	

<210> 9916

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 9916

Phe Pro Gly Arg Glu His	Ile Ser Ser Cys Arg Trp	Leu Ile Thr Gln
1	5	10
Thr Ser Arg Met His Lys	Lys Asp Asn His Ile Arg	Gly Gln Ser Arg
20	25	30
Phe Cys Pro His Lys Arg	Leu Asn Asn Ala Phe	Met Leu His Ala Ser
35	40	45
Thr Ser Pro Phe Tyr Pro	Leu Phe Ala Ala Leu	Asp Val Asn Ala Lys
50	55	60
Ile His Glu Gly Glu Ser	Gly Arg Arg Leu Trp	Ala Glu Cys Val Glu
65	70	75
Leu Gly Ile Glu Ala Arg	Lys Ala Ile Ile Ala	Asn Cys His Met Ile
85	90	95
Lys Pro Phe Ile Pro Pro	Val Val Ala Gly Arg	Pro Trp Gln Asp His
100	105	110
Pro Thr Gln Ala Ile Ala	Ser Glu Arg Arg Phe	Phe Ser Phe Glu Pro
115	120	125
Gly Ala Lys Trp His Gly	Phe Glu Gly Tyr Ala	Arg Glu Gln Tyr Phe
130	135	140
Val Asp Pro Cys Lys Leu	Leu Leu Thr Thr Pro	Gly Ile Asp Ala Glu

145 150 155 160
 Thr Gly His Tyr Thr Asp Phe Gly Ile Pro Ala Thr Ile Leu Ala His
 165 170 175
 Tyr Leu Arg Glu Asn Gly Ile Val Pro Glu Lys Cys Asp Leu Asn Ser
 180 185 190
 Ile Leu Phe Leu Leu Thr Pro Ala Glu Ser Ala Glu Lys Leu Met Gln
 195 200 205
 Leu Val Ala Met Leu Gly Gln Phe Glu Gln His Ile Glu Asp Asp Thr
 210 215 220
 Pro Leu Ala Asp Val Leu Pro Thr Ile Tyr Gln Lys Tyr Pro Val Arg
 225 230 235 240
 Tyr Arg Asp Tyr Thr Ile Arg Gln Leu Cys Gln Glu Met His Asp Leu
 245 250 255
 Tyr Val Ser Phe Asn Val Lys Asp Leu Gln Lys Ala Met Phe Arg Gln
 260 265 270
 Glu Ser Leu Pro Ala Val Val Met Asn Pro Gln Asp Ala Asn Gln Glu
 275 280 285
 Tyr Ile Arg Gly Asn Val Glu Leu Val Arg Ile Arg Asp Ala Glu Gly
 290 295 300
 Arg Ile Ala Ala Glu Gly Ala Leu Pro Tyr Pro Gly Val Leu Cys
 305 310 315 320
 Val Val Pro Gly Glu Val Trp Gly Gly Ala Val Gln Arg Tyr Phe Leu
 325 330 335
 Ala Leu Glu Glu Gly Ile Asn Met Leu Pro Gly Phe Ser Pro Glu Leu
 340 345 350
 Gln Gly Val Tyr Ser Glu Lys Asp Ala Asp Gly Ile Lys Arg Leu Tyr
 355 360 365
 Gly Tyr Val Leu Lys
 370

<210> 9917

<211> 308

<212> PRT

<213> *Enterobacter cloacae*

<400> 9917

Arg Leu His Leu Ser Ala Asp Ser Gly Gln Leu Pro Arg Leu Ser Phe
 1 5 10 15
 Gln Glu Arg Thr Met Lys Leu Ala Ser Phe Leu Tyr Gln Gly Lys Arg
 20 25 30
 Ser Tyr Gly Ile Val Gln Ala Asp Gly Val Ile Asp Leu Gly Arg Arg
 35 40 45
 Leu Gly Asp Arg Tyr Gly Asp Leu Lys Ala Leu Leu Gln Gly Asn Gly
 50 55 60
 Leu Ala Gln Ala Thr Arg Phe Leu Asn Asp Ala Val Asp Val Pro Leu
 65 70 75 80
 Asn Ala Ile Thr Phe Leu Pro Val Ile Val Gln Pro Glu Lys Ile Leu
 85 90 95
 Cys Val Gly Met Asn Tyr Ala Asp Lys Arg Lys Glu Phe Asp Gln His
 100 105 110
 Asn Pro Ala Pro Thr Leu Phe Val Arg Phe Pro Asp Ser Gln Thr Gly
 115 120 125
 His Asn Glu Pro Val Leu Lys Pro Arg His Ser Ser Glu Phe Asp Tyr
 130 135 140
 Glu Gly Glu Leu Ala Val Ile Ile Gly Lys Gly Gly Glu Asn Ile Ser
 145 150 155 160
 Arg Asp Asp Ala Leu Arg His Val Ala Gly Tyr Ser Cys Tyr Met Asp
 165 170 175
 Gly Ser Ala Arg Asp Trp Gln His Thr Trp Phe Thr Ala Gly Lys Asn
 180 185 190
 Trp Arg Gln Thr Gly Ala Phe Gly Pro Trp Met Ala Thr Ala Asp Glu

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      195                200                205
Ile Pro Asp Pro His Gln Leu Ala Ile Arg Thr Trp Leu Asn Gly Arg
210                215                220
Met Val Gln Glu Asp Asn Thr Ser Ser Met Ile His Lys Val Ala Glu
225                230                235
Leu Ile Glu Tyr Ile Ser Thr Phe Thr Arg Leu Ser Pro Gly Asp Val
      245                250                255
Ile Ile Thr Gly Ser Pro Gly Gly Val Gly Lys Lys Arg Asn Pro Pro
260                265                270
Leu Phe Met Lys Glu Gly Asp Arg Ile Glu Val Glu Ile Glu His Ile
275                280                285
Gly His Leu Ser Asn Val Ile Val Glu Ala Pro Ala Val Gly Leu Ala
290                295                300
Ala Ala His
305

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<210> 9918

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 9918

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Thr Ala Trp Pro Ser Ser Trp Ser Arg Arg Met Gly Leu Asn Val Arg
1      5      10      15
Glu Gly Glu Ile Met Ala Lys Asn Arg Ser Arg Arg Leu Arg Lys Lys
20      25      30
Met His Ile Glu Glu Phe Gln Glu Val Gly Phe Ser Val Ala Trp Arg
35      40      45
Phe Pro Glu Gly Thr Ser Val Glu Gln Ile Asp Gln Asp Val Asp Ala
50      55      60
Phe Ile Asn Glu Val Ile Glu Pro Asn Lys Leu Ala Phe Asp Gly Ser
65      70      75      80
Gly Tyr Leu Ala Trp Glu Gly Leu Ile Cys Thr Gln Glu Val Gly Lys
85      90      95
Cys Thr Glu Glu His Gln Ala Leu Val Arg Lys Trp Leu Glu Asp His
100      105      110
Lys Leu Glu Asp Val Arg Val Ser Glu Leu Phe Asp Val Trp Trp Asp
115      120      125

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<210> 9919

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 9919

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Ser Lys Asn Gly Ala Ser Ile Ser Trp Pro Ile Leu Ser Glu Gly Val
1      5      10      15
Phe Lys Met Arg Lys Thr Leu Leu Ala Val Ala Leu Leu Ala Ile Gly
20      25      30
Ser Thr Ala His Ala Glu Tyr Lys Cys Ser Val Thr Pro Arg Asp Asp
35      40      45
Val Val Leu Ser Pro Gln Thr Val Gln Val Lys Gly Glu Asn Gly Asn
50      55      60
Leu Val Ile Thr Pro Asp Gly Asn Val Thr Phe Asn Gly Lys Pro Gln
65      70      75      80
Asn Leu Thr Ala Ala Gln Arg Glu Gln Ala Met Asp Tyr Gln Ala Glu
85      90      95
Leu Arg Thr Ala Leu Pro Trp Ile Asn Asp Gly Ala Leu Thr Arg Val
100      105      110

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Glu Lys Ser Arg Val Ala Leu Asp Lys Ile Ile Thr Lys Glu Val Gly
 115 120 125
 Glu Ser Ser Asn Met Arg Thr Arg Leu Thr Lys Leu Asp Lys Gln Leu
 130 135 140
 Lys Glu Gln Met Asn Arg Ile Ile Glu Thr Arg Ser Asp Gly Leu Thr
 145 150 155 160
 Phe His Tyr Lys Ala Ile Asp Gln Val Arg Ala Asp Gly Gln Gln Leu
 165 170 175
 Val Asn Gln Ala Met Gly Gly Ile Leu Gln Asp Ser Ile Asn Glu Met
 180 185 190
 Gly Ala Lys Ala Val Leu Lys Gly Gly Asn Pro Leu Gln Gly Val
 195 200 205
 Leu Gly Ser Leu Gly Gly Leu Gln Thr Ser Ile Gln Asn Glu Trp Lys
 210 215 220
 Asn Gln Glu Ala Asp Phe Gln Gln Phe Gly Lys Asp Val Cys Lys Arg
 225 230 235 240
 Val Val Ser Leu Glu Asp Ser Arg Lys Ala Leu Val Gly Thr Leu Lys
 245 250 255

<210> 9920

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 9920

Cys Ile Asp Phe Ile Arg Gly Gln Asp Met Ser Thr Leu Gly His Gln
 1 5 10 15
 Tyr Asp Asn Ser Leu Val Ser Asn Ala Phe Gly Phe Leu Arg Leu Pro
 20 25 30
 Met Asn Phe Gln Pro Tyr Asp Ser Asp Ala Asp Trp Val Ile Thr Gly
 35 40 45
 Val Pro Phe Asp Met Ala Thr Ser Gly Arg Ala Gly Gly Arg His Gly
 50 55 60
 Pro Ala Ala Ile Arg Gln Val Ser Thr Asn Leu Ala Trp Glu His Asn
 65 70 75 80
 Arg Phe Pro Trp Asn Phe Asp Met Arg Glu Arg Leu Asn Val Val Asp
 85 90 95
 Cys Gly Asp Leu Val Tyr Ala Phe Gly Asp Ala Arg Glu Met Ser Glu
 100 105 110
 Lys Leu Gln Ala His Ala Glu Lys Leu Leu Ala Ala Gly Lys Arg Met
 115 120 125
 Leu Ser Phe Gly Gly Asp His Phe Val Thr Leu Pro Leu Leu Arg Ala
 130 135 140
 His Ala Lys His Phe Gly Lys Met Ala Leu Val His Phe Asp Ala His
 145 150 155 160
 Thr Asp Thr Tyr Ala Asn Gly Cys Glu Phe Asp His Gly Thr Met Phe
 165 170 175
 Tyr Thr Ala Pro Lys Glu Gly Leu Ile Asp Pro Asn His Ser Val Gln
 180 185 190
 Ile Gly Ile Arg Thr Glu Phe Asp Lys Asp Asn Gly Phe Thr Val Leu
 195 200 205
 Asp Ala Gly Gln Val Asn Asp Arg Gly Val Asp Asp Ile Leu Ala Gln
 210 215 220
 Val Lys Gln Ile Val Gly Asp Met Pro Val Tyr Leu Thr Phe Asp Ile
 225 230 235 240
 Asp Cys Leu Asp Pro Ala Phe Ala Pro Gly Thr Gly Thr Pro Val Ile
 245 250 255
 Gly Gly Leu Thr Ser Asp Arg Ala Ile Lys Leu Val Arg Gly Leu Lys
 260 265 270

Asp Leu Asn Ile Val Gly Met Asp Val Val Glu Val Ala Pro Ala Tyr
 275 280 285
 Asp Gln Ser Glu Ile Thr Ala Leu Ala Ala Ala Thr Leu Ala Leu Glu
 290 295 300
 Met Leu Tyr Ile Gln Ala Ala Lys Lys Gly Glu
 305 310 315

<210> 9921

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 9921

Ser Thr Ala Gly Ser Arg Leu Met Asn Gly Leu Leu Ser Gly Lys Arg
 1 5 10 15
 Ile Val Ile Thr Gly Ala Ala Arg Gly Leu Gly Phe His Phe Ala Lys
 20 25 30
 Ala Cys Ala Glu Gln Gly Ala Ala Val Val Met Cys Asp Ile Leu Lys
 35 40 45
 Gly Glu Leu Ala Glu Ser Ala His Ala Leu Ser Glu Arg Gly Tyr Ala
 50 55 60
 Ile Glu Pro His Val Ile Asp Leu Ala Asp Pro Gln Ser Ile Glu Gln
 65 70 75 80
 Val Phe Ser Ala Ile Gly Glu Gln Gly Gln Ile Asp Gly Leu Val Asn
 85 90 95
 Asn Ala Ala Met Ala Thr Gly Val Gly Gly Lys Asn Met Leu Asp Tyr
 100 105 110
 Asp Pro Asp Leu Trp Asp Arg Val Met Ser Val Asn Val Lys Gly Thr
 115 120 125
 Trp Leu Val Thr Arg Ala Ala Val Pro Leu Leu Arg Glu Gly Ala Gly
 130 135 140
 Ile Val Asn Val Ala Ser Asp Thr Ala Leu Trp Gly Ala Pro Arg Leu
 145 150 155 160
 Met Ala Tyr Val Ala Ser Lys Gly Ala Val Ile Ala Met Thr Arg Ser
 165 170 175
 Met Ala Arg Glu Leu Gly Glu Lys Arg Ile Arg Ile Asn Ala Ile Ala
 180 185 190
 Pro Gly Leu Thr Arg Val Glu Ala Thr Glu Tyr Val Pro Ala Glu Arg
 195 200 205
 His Gln Leu Tyr Glu Asn Gly Arg Ala Leu Thr Gly Ala Gln Gln Pro
 210 215 220
 Glu Asp Val Thr Gly Ser Val Val Trp Leu Ser Asp Leu Ser Arg
 225 230 235 240
 Phe Ile Thr Gly Gln Leu Ile Pro Val Asn Gly Gly Phe Val Phe Asn
 245 250 255

<210> 9922

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 9922

Gly Arg Ala Met Met Ala Asn Asp Gln Glu Val Lys Tyr Leu Val Pro
 1 5 10 15
 Gly Leu Glu Arg Gly Leu Gln Leu Leu Leu Ala Phe Gly Glu Gln His
 20 25 30
 Arg Asp Leu Thr Phe Ala Glu Leu His Arg Leu Val Asp Met Pro Lys
 35 40 45
 Ala Thr Ala Tyr Arg Val Val Gln Thr Leu Glu Tyr Met Gly Phe Leu

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      50      55      60
Glu Arg Asn Thr Arg Thr Asn Thr Phe Ser Leu Gly Met Asn Val Leu
65      70      75      80
Arg Leu Gly Phe Glu Tyr Ile Ala Ser Leu Asp Val Ala Gln Val Gly
      85      90      95
Gln Pro Val Ile Glu Gln Leu Arg Asp Val Ser Gln Cys Ser Ser His
      100      105      110
Leu Ala Ile Arg Asp Gly Arg Asp Ile Ile Tyr Ile Ala Arg Val Ser
      115      120      125
Ala Ala Gly Ser Arg Ile Asn Gln Val Ser Ile Gly Thr Arg Leu Pro
      130      135      140
Val His Cys Thr Ser Leu Gly Arg Met Leu Leu Thr Asp Ile Ser Arg
      145      150      155      160
Ala Asp Phe Glu Gln Leu Phe Pro His Glu Arg Leu Pro Gly Asn Thr
      165      170      175
Pro Gly Gln Leu His Asp Arg Glu Ala Leu Trp Gln Met Val Gln Gln
      180      185      190
Asp Lys Ala Arg Gly Tyr Val Ile Gly Glu Ser Phe Phe Arg His Gly
      195      200      205
Ile Ser Ser Ile Val Tyr Pro Val Tyr Asp Arg Ser Gly Arg Val Ala
      210      215      220
Ala Val Val Ser Ile Leu Val Pro Ser Glu Glu Ile Pro Gln Ser Asp
      225      230      235      240
Arg Glu Arg Leu Gln Asn Glu Val Arg Leu Ala Ala Asp Lys Ile Ser
      245      250      255
Gly Phe Leu Gly Tyr Leu Ser Gln Ala Ser
      260      265

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<210> 9923

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 9923

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Leu Arg Arg Ala Cys Phe Thr Pro Asn Leu Gly Gln Met Arg Gln Arg
1      5      10      15
Thr Met Ser Val Thr Gly Ile Glu Lys Leu Glu Phe Gly Val Glu Asp
      20      25      30
Leu Thr His Cys Ala Lys Phe Met Arg Asp Phe Gly Leu Thr Gly Asp
      35      40      45
Ala Ser Gly Gln Arg Phe Thr Thr Leu Ser Gly Ala Arg Val Glu Leu
      50      55      60
Asn Pro Ile Asp Ser Pro Asp Leu Pro Pro Ala Phe Glu Ala Gly Asn
      65      70      75      80
Thr Leu Arg Arg Met Thr Trp Ala Val Ala Ala Gln Ser Asp Leu Asp
      85      90      95
Ala Leu Arg Pro Lys Leu Ala Gln Gln Pro Gly Phe Arg Glu Val Gly
      100      105      110
Asp Ala Leu Glu Cys Leu Asp Pro Asn Gly Met Thr Leu Arg Val Gln
      115      120      125
Val Thr Gln Gln Thr Asp Val Glu Leu Asn Val Glu Pro Ile Asn Gln
      130      135      140
Trp Gly Asp Ala Arg Arg Ile Asp Thr Pro Ser Pro Val Tyr Asp Arg
      145      150      155      160
Ala Gln Pro Ile Asn Val Gly His Val Val Phe Phe Val Glu Glu Leu
      165      170      175
Ala Ala Val Glu Lys Phe Tyr Arg Glu Val Leu Gly Phe Gln Val Ser
      180      185      190
Asp Arg Tyr Ile Asn Arg Ala Val Phe Leu Arg Cys Gly Val Arg Gly
      195      200      205
Gly His His Asn Leu Phe Leu Leu Gln Leu Pro Asn Arg Lys Arg Gly

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210	215	220
Leu Asn His Val Ala Phe	Thr Val Arg Asp Ile	His Glu Val Ile Gly
225	230	235
Gly Gly Ile Ala Met Asn	Lys His Asp Trp Ser	Thr Phe Ile Gly Pro
245	250	255
Gly Arg His Pro Val Ser	Ser Ala Tyr Phe Trp	Tyr Val Asn Ser Pro
260	265	270
Thr Gly Gly Ala Phe Glu	Tyr Tyr Thr Asn Asp	Asp Tyr Leu Thr Glu
275	280	285
Asn Trp Gln Pro Arg Glu	Leu Glu His Ser Leu	Val Ser Phe Thr Glu
290	295	300
Trp Ala Val Glu Gly Gly	Ile Asp His Asp Thr	Arg Arg Gln Gln Lys
305	310	315
Lys Pro Glu Ala Val		
325		

<210> 9924

<211> 426

<212> PRT

<213> Enterobacter cloacae

<400> 9924

Pro Ala Pro Val Gly Gly	Glu Met Thr Thr	Leu Glu Thr Asn Thr Ala
1	5	10
Pro Val Glu Ala Ser Gly	Glu Gly Thr Arg Thr	Pro Glu Lys Ala Val
20	25	30
Arg Trp Ala Ile Pro Leu	Ser Leu Leu Ala Cys	Val Leu Leu Ala Phe
35	40	45
Phe Asp Lys Ile Ser Ile	Ala Ala Leu Phe Ser	Asp Thr His Phe Gln
50	55	60
Gln Ala Met Gly Ile Asp	Phe Asp Thr Thr Arg	Leu Gly Ile Leu Met
65	70	75
Ser Ala Phe Leu Leu Ser	Tyr Gly Phe Ser Ser	Val Phe Leu Ser Gly
85	90	95
Leu Gly Asp Lys Ile Ala	Pro Leu Arg Leu Leu	Thr Gly Met Met Ala
100	105	110
Val Trp Cys Val Leu Met	Val Ala Met Gly Phe	Thr His Asn Tyr Thr
115	120	125
Leu Met Ile Val Leu Arg	Ile Leu Leu Gly Val	Ala Glu Gly Pro Leu
130	135	140
Phe Pro Leu Ala Phe Ala	Ile Val Arg His Asn	Phe Pro Gln His Leu
145	150	155
Gln Ala Arg Ala Thr Met	Leu Trp Leu Leu Gly	Thr Pro Val Gly Ala
165	170	175
Ala Ile Gly Phe Pro Leu	Ser Leu Trp Leu Leu	Asn Thr Phe Gly Trp
180	185	190
Gln Ser Thr Phe Phe Val	Met Ala Met Leu Thr	Val Pro Val Leu Ile
195	200	205
Leu Val Arg Ile Gly Leu	Arg Gly Ile Arg Leu	Glu Ala Lys Pro Gly
210	215	220
Thr Ser Gln Ala Ser Gln	Asp Glu Arg Arg Ala	Ala Arg Arg Glu Leu
225	230	235
Phe Val Ser Pro His Phe	Trp Ile Ile Cys Ile	Phe Asn Ile Ala Phe
245	250	255
Leu Thr Tyr Leu Trp Gly	Ile Asn Gly Trp Leu	Pro Gly Tyr Leu Ile
260	265	270
Lys Gly Lys Gly Ile His	Leu Glu His Ala Gly	Trp Leu Ser Ser Met
275	280	285
Pro Phe Ile Ala Met Leu	Ala Gly Glu Val Ile	Gly Ala Trp Leu Ser
290	295	300
Asp Arg Val Asp Lys Arg	Ala Ala Ala Cys Phe	Ile Ser Met Ala Gly

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<210> 9925
<211> 548
<212> PRT
<213> Enterobacter cloacae
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1	la	Met	Ser	Glu	Met	Ile	Thr	Val	Gly	Asp	Ala	Ile	Ala	Arg	Thr	Leu
5									10						15	
Glu	Gln	Tyr	Gln	Val	Glu	Ala	Ile	Tyr	Gly	Val	Ile	Ser	Ile	His	Asn	
20								25						30		
Leu	Pro	Ile	Ala	Asp	Ala	Val	Gly	Gln	Arg	Gly	Asn	Ile	Arg	Phe	Val	
35							40					45				
Pro	Ala	Arg	Gly	Glu	Ala	Gly	Ser	Val	Thr	Met	Ala	Asp	Ala	His	Gln	
50						55					60					
Arg	Phe	Ser	Gly	Leu	Gly	Val	Ala	Leu	Thr	Ser	Thr	Gly	Ala	Gly	Ala	
65					70					75					80	
Gly	Asn	Ala	Val	Gly	Ala	Leu	Val	Glu	Ala	Met	Asn	Ala	Cys	Thr	Pro	
85								90						95		
Leu	Leu	His	Leu	Thr	Gly	Gln	Val	Glu	Lys	Ala	Trp	Leu	Asp	Ala	Asp	
100								105					110			
Thr	Gly	Phe	Ile	His	Glu	Thr	Arg	Asp	Gln	Leu	Thr	Phe	Leu	Lys	Ala	
115						120						125				
Ser	Ser	Lys	Arg	Ala	Tyr	Arg	Ile	Ser	Asn	Ala	Asn	Gln	Ala	Ile	Ala	
130						135				140						
Ile	Leu	His	Lys	Ala	Ile	Gln	Asp	Ala	Gln	Thr	Pro	Pro	Cys	Gly	Pro	
145					150					155					160	
Val	Ser	Val	Glu	Ile	Pro	Ile	Asp	Ile	Gln	Ser	Ala	Lys	Ile	Pro	Leu	
165								170						175		
Ser	Leu	Val	Thr	Ala	Pro	Ile	Lys	Pro	Val	Ser	Ala	Pro	Ala	Val	Asp	
180								185					190			
Thr	Gly	Met	Val	Asp	Ala	Leu	Trp	Ala	Gln	Leu	Lys	Gln	Ala	Lys	Gln	
195							200					205				
Pro	Leu	Leu	Trp	Leu	Gly	Gly	Ala	Leu	Gly	Ser	Ala	Glu	Ala	Ala	Val	
210					215					220						
Lys	Lys	Leu	Ala	Asp	Ala	Gly	Ile	Thr	Val	Ile	Ser	Ser	Thr	His	Ala	
225					230					235					240	
Arg	Gly	Val	Leu	Pro	Asp	Asn	His	Arg	Ala	Ser	Leu	Arg	Ala	Phe	His	
245								250						255		
Asn	Ser	Pro	Ser	Val	Glu	Ala	Leu	Ile	Ala	Gln	Cys	Asp	Phe	Thr	Leu	
260								265					270			
Val	Ala	Gly	Ser	Arg	Leu	Arg	Ser	Asn	Glu	Thr	Arg	Ser	Trp	Thr	Leu	
275							280					285				
Glu	Leu	Pro	Ser	Pro	Arg	Val	Gln	Leu	Asp	Ile	Asp	Pro	Ala	Ala	Ala	
290					295					300						
Ser	Arg	Asn	Tyr	Leu	Met	Asp	Ser	Thr	Leu	Ile	Ala	Asp	Cys	Ser	Ala	

305 310 315 320
 Leu Leu Gly Ala Leu Ala Glu Lys Val Gln Gly Arg Glu Trp Gly Asn
 325 330 335
 Ala Gln Trp Asp Thr Gln Val Gln Gln Ala Val Gly Gln Ala Glu Gln
 340 345 350
 Gly Leu Arg Glu Gln Cys Gly Ala Tyr Ala Lys Leu Asn Asp Ala Ile
 355 360 365
 Glu Lys Ala Leu Pro Lys Asp Gly Leu Leu Val Arg Asp Ile Thr Val
 370 375 380
 Ser Gly Ser Leu Trp Gly Ser Arg Leu Phe Arg Ala Asn Gly Pro Leu
 385 390 395 400
 Met Asn Ile His Ser Leu Ala Gly Ala Ile Gly Met Gly Leu Pro Met
 405 410 415
 Ala Ile Gly Thr Ala Ile Ala Asn Pro Gln Arg Lys Val Val Gly Leu
 420 425 430
 Val Gly Asp Gly Gly Leu Ser Leu Asn Leu Gly Glu Leu Ala Thr Leu
 435 440 445
 Ala Gln Glu Lys Ala Asn Val Thr Leu Leu Ile Met Asn Asp Gly Gly
 450 455 460
 Tyr Gly Val Met Arg Gly Ile Gln Asp Lys Tyr Phe Gly Gly Arg Gln
 465 470 475 480
 Tyr Tyr Asn Ala Leu His Thr Pro Asp Phe Thr Leu Leu Ala Gln Ala
 485 490 495
 Ile Gly Leu Gln Ala Trp Ser Val Glu Gln Ala Glu Asp Phe Asp Ala
 500 505 510
 Val Met Met Glu Ala Leu Ala Met Pro Gly Pro Ser Val Val Glu Val
 515 520 525
 Arg Met Gly Gln Ile Gly Ala Leu Lys Phe Ala Gly Pro Pro Gln Lys
 530 535 540
 Thr Leu Tyr
 545

<210> 9926

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 9926

Leu Cys Arg Arg Ser Met Thr Val Arg Val Ala Ile Asn Gly Phe Gly
 1 5 10 15
 Arg Ile Gly Arg Asn Val Val Arg Ala Leu Tyr Glu Ser Gly Arg Arg
 20 25 30
 Ala Glu Ile Thr Val Val Ala Ile Asn Glu Leu Ala Asp Ala Ala Gly
 35 40 45
 Met Ala His Leu Leu Lys Tyr Asp Thr Ser His Gly Arg Phe Ala Trp
 50 55 60
 Asp Val Arg Gln Glu Arg Glu Gln Leu Phe Val Gly Asp Asp Ala Ile
 65 70 75 80
 Arg Val Leu His Glu Asn Ser Ile Glu Gly Leu Pro Trp Arg Glu Leu
 85 90 95
 Gly Val Asp Val Val Leu Asp Cys Thr Gly Val Tyr Gly Asn Arg Glu
 100 105 110
 His Gly Glu Ala His Leu Asn Ala Gly Ala Lys Lys Val Leu Phe Ser
 115 120 125
 His Pro Gly Ser Asn Asp Leu Asp Ala Thr Val Val Phe Gly Val Asn
 130 135 140
 Gln His Glu Leu His Ala Glu His Arg Ile Val Ser Asn Ala Ser Cys
 145 150 155 160
 Thr Thr Asn Cys Ile Ile Pro Val Ile Lys Leu Leu Asp Asp Ala Tyr
 165 170 175
 Gly Ile Glu Ser Gly Thr Val Thr Thr Ile His Ser Ala Met His Asp

[illegible]

Abstract

Abstract

[illegible]

290 295 300
 Glu Ala Arg Ala Leu Val Gly Ile Phe Leu Asn Asp Gln Phe Val Lys
 305 310 315 320
 Gly Lys Ala Lys Gln Leu Thr Lys Asn Val Glu Thr Pro Lys His Ala
 325 330 335
 Ala Val Leu Gly Ala Gly Ile Met Gly Gly Gly Ile Ala Thr Gln Ser
 340 345 350
 Ala Trp Lys Gly Val Pro Val Val Met Lys Asp Ile Asn Glu Lys Ser
 355 360 365
 Leu Thr Leu Gly Met Thr Glu Ala Ser Lys Leu Leu Asn Lys Gln Leu
 370 375 380
 Glu Arg Gly Lys Ile Asp Gly Leu Lys Leu Ala Gly Val Ile Ser Thr
 385 390 395 400
 Ile Gln Pro Val Leu Glu Tyr Ser Gly Phe Asp Arg Val Asp Val Val
 405 410 415
 Val Glu Ala Val Val Glu Asn Pro Lys Val Lys Lys Ala Val Leu Ala
 420 425 430
 Glu Thr Glu Asp Lys Val Arg Pro Glu Thr Val Leu Ala Ser Asn Thr
 435 440 445
 Ser Thr Ile Pro Ile Ser Glu Leu Ala Ser Val Leu Lys Arg Pro Glu
 450 455 460
 Asn Phe Cys Gly Met His Phe Phe Asn Pro Val His Arg Met Pro Leu
 465 470 475
 Val Glu Val Ile Arg Gly Glu Lys Thr Ser Asp Glu Thr Ile Ala Lys
 485 490 495
 Val Val Ala Trp Ala Ser Lys Met Gly Lys Thr Pro Ile Val Val Asn
 500 505 510
 Asp Cys Pro Gly Phe Phe Val Asn Arg Val Leu Phe Pro Tyr Phe Ala
 515 520 525
 Gly Phe Ser Gln Leu Leu Arg Asp Gly Ala Asp Phe Arg Lys Ile Asp
 530 535 540
 Lys Val Met Glu Lys Gln Phe Gly Trp Pro Met Gly Pro Ala Tyr Leu
 545 550 555
 Leu Asp Val Val Gly Ile Asp Thr Ala His His Ala Gln Ala Val Met
 565 570 575
 Ala Ala Gly Phe Pro Gln Arg Met Gln Lys Asp Tyr Arg Asp Ala Ile
 580 585 590
 Asp Ala Leu Phe Asp Ala Asn Arg Phe Gly Gln Lys Asn Gly Leu Gly
 595 600 605
 Phe Trp Arg Tyr Lys Glu Asp Ser Lys Gly Lys Pro Lys Lys Glu Glu
 610 615 620
 Asp Ala Ala Val Asp Gly Pro Ala Gly Arg Gln Ser Ala Glu Thr
 625 630 635 640
 Arg Leu His

<210> 9929

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 9929

Met Phe Leu Leu Ser Gln Leu His Ile Pro Leu Gln Lys Gly Leu Ile
 1 5 10 15
 Ile Met Lys Ile Lys Asn Leu Thr Leu Thr Leu Cys Thr Thr Leu Leu
 20 25 30
 Leu Ala Ser Phe Ala Gly His Ala Lys Glu Val Lys Ile Gly Met Ala
 35 40 45
 Ile Asp Asp Leu Arg Leu Glu Arg Trp Gln Lys Asp Arg Asp Ile Phe
 50 55 60
 Val Lys Lys Ala Glu Ser Leu Gly Ala Glu Val Phe Val Gln Ser Ala

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65          70          75          80
Asn Gly Asn Glu Thr Gln Met Ser Gln Ile Glu Asn Met Ile Asn
      85          90
Arg Gly Val Asp Val Leu Val Ile Ile Pro Tyr Asn Gly Gln Val Leu
      100          105          110
Ser Asn Val Val Lys Glu Ala Lys Gln Glu Gly Ile Lys Val Leu Ala
      115          120          125
Tyr Asp Arg Met Ile Asn Asn Ala Asp Ile Asp Tyr Tyr Ile Ser Phe
      130          135          140
Asp Asn Glu Lys Val Gly Glu Leu Gln Ala Lys Ser Leu Val Ala Lys
145          150          155          160
Val Pro Gln Gly Asn Tyr Phe Leu Met Gly Gly Ser Pro Val Asp Asn
      165          170          175
Asn Ala Lys Leu Phe Arg Gln Gly Gln Met Lys Val Leu Lys Pro Tyr
      180          185          190
Ile Asp Glu Gly Lys Ile Lys Val Val Gly Asp Gln Trp Ala Asp Gly
      195          200          205
Trp Leu Pro Glu Asn Ala Leu Lys Ile Met Glu Asn Ala Leu Thr Ala
210          215          220
Asn Asn Asn Lys Ile Asp Ala Val Val Ala Ser Asn Asp Ala Thr Ala
225          230          235
Gly Gly Ala Ile Gln Ala Leu Ser Ala Gln Gly Leu Ala Gly Lys Val
      245          250          255
Ala Ile Ser Gly Gln Asp Ala Asp Leu Ala Gly Val Lys Arg Ile Ile
      260          265          270
Ala Gly Thr Gln Thr Met Thr Val Tyr Lys Pro Ile Thr Glu Leu Ala
      275          280          285
Asn Thr Ala Ala Glu Ile Ala Val Glu Leu Gly Asn Gly Gln Gln Pro
290          295          300
Lys Ala Asp Ala Thr Leu Asn Asn Gly Leu Lys Asp Val Pro Ala Arg
305          310          315
Leu Leu Thr Pro Ile Glu Val Asn Lys Glu Asn Ile Asp Ala Thr Val
      325          330          335
Val Lys Asp Gly Phe His Lys Lys Ser Glu Leu
      340          345

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<210> 9930

<211> 538

<212> PRT

<213> Enterobacter cloacae

<400> 9930

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Ser Ser Ala Ala Pro Ala Arg Gln Gly Arg Ile Asp Leu Pro Cys Thr
1          5          10          15
Ser Val Gly Pro Cys Gly Ala Val Met Ser Tyr Leu Leu Glu Met Lys
      20          25          30
Ser Ile Thr Lys Ala Phe Gly Ala Val Lys Ala Val Asp Asn Val Ser
      35          40          45
Leu Arg Leu Asn Pro Gly Glu Val Met Ser Leu Cys Gly Glu Asn Gly
      50          55          60
Ser Gly Lys Ser Thr Leu Met Lys Val Leu Cys Gly Ile Tyr Pro His
65          70          75          80
Gly Ser Tyr Glu Gly Glu Ile Val Phe Ala Gly Glu Val Leu Gln Ala
      85          90          95
Thr His Ile Arg Asp Thr Glu Arg Lys Gly Ile Ala Ile Ile His Gln
      100          105          110
Glu Leu Ala Leu Val Lys His Leu Thr Val Leu Glu Asn Ile Phe Leu
      115          120          125
Gly Ala Glu Leu Ser Arg His Gly Val Leu Asp Tyr Asp Thr Met Thr
130          135          140
Leu Arg Cys Glu Lys Leu Leu Ala Gln Val Ser Leu Ala Ile Ser Pro

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145          150          155          160
Asp Thr Arg Val Gly Asp Leu Gly Leu Gly Gln Gln Gln Leu Val Glu
      165          170          175
Ile Ala Lys Ala Leu Asn Lys Gln Val Arg Leu Leu Ile Leu Asp Glu
      180          185          190
Pro Thr Ala Ser Leu Thr Glu Gln Glu Thr Ala Val Leu Leu Asn Ile
      195          200          205
Ile Arg Asp Leu Gln Asn His Gly Ile Ala Cys Ile Tyr Ile Ser His
      210          215          220
Lys Leu Asn Glu Val Lys Ala Ile Ser Asp Thr Ile Cys Val Ile Arg
225          230          235          240
Asp Gly Gln His Ile Gly Thr Arg Glu Ala Glu Gly Met Ser Glu Asp
      245          250          255
Asp Ile Ile Thr Met Met Val Gly Arg Glu Leu Thr Ala Leu Tyr Pro
      260          265          270
Asn Glu Pro His Thr Ile Gly Glu Glu Leu Leu Arg Val Glu Asn Leu
      275          280          285
Thr Ala Trp His Pro Val Asn Arg His Ile Lys Arg Val Asp Asn Leu
      290          295          300
Ser Phe Ser Leu His Arg Gly Glu Ile Leu Gly Ile Ala Gly Leu Val
305          310          315          320
Gly Ala Gly Arg Thr Glu Ala Val Gln Cys Leu Phe Gly Val Trp Pro
      325          330          335
Gly Arg Trp Glu Gly Lys Ile Tyr Ile Asp Gly Gln Pro Val Lys Ile
      340          345          350
Asp Asn Cys Gln Gln Ala Ile Ala Lys Gly Ile Ala Met Val Pro Glu
      355          360          365
Asp Arg Lys Lys Asp Gly Ile Val Pro Val Met Ala Val Gly Lys Asn
      370          375          380
Ile Thr Leu Ala Ala Leu Ser Gln Phe Ser Gly Ala Leu Ser Ser Leu
385          390          395          400
Asp Asp Ala Ala Glu Gln Gln Cys Ile Leu Gln Ser Leu Ala Arg Leu
      405          410          415
Lys Val Lys Thr Ser Ser Pro Glu Leu Ala Ile Gly Arg Leu Ser Gly
      420          425          430
Gly Asn Gln Gln Lys Ala Ile Leu Ala Arg Cys Leu Leu Leu Asn Pro
      435          440          445
Arg Ile Leu Ile Leu Asp Glu Pro Thr Arg Gly Ile Asp Ile Gly Ala
      450          455          460
Lys Tyr Glu Ile Tyr Lys Leu Ile Asn Gln Leu Val Gln Gln Gly Ile
465          470          475          480
Ala Val Ile Val Ile Ser Ser Glu Leu Pro Glu Val Leu Gly Leu Ser
      485          490          495
Asp Arg Val Leu Val Met His Glu Gly Lys Leu Lys Ala Asn Leu Asn
      500          505          510
Asn Gln Asn Leu Thr Gln Glu Gln Val Met Glu Ala Ala Leu Arg Ser
      515          520          525
Glu Arg His Val Glu Lys Gln Pro Val
      530          535

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<210> 9931

<211> 528

<212> PRT

<213> Enterobacter cloacae

<400> 9931

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Pro Ser Pro Thr Gly Arg Gly Arg Lys Pro Asn Arg Arg Pro Gly Lys
1          5          10          15
Arg Ser Thr Arg Gln Leu Ser Glu Lys Lys Met Ser Glu Lys Glu Pro
      20          25          30
Phe Trp Leu Gly Ile Asp Cys Gly Gly Thr Tyr Leu Lys Ala Gly Leu

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[illegible]

<210> 9932
 <211> 241
 <212> PRT
 <213> Enterobacter cloacae

<400> 9932
 Ser Pro Asn Ala Gly Arg Arg His Asp Met Leu Glu Gln Leu Lys Ala
 1 5 10 15
 Glu Val Leu Ala Ala Asn Leu Ala Leu Pro Ala His Gln Leu Val Thr
 20 25 30
 Phe Thr Trp Gly Asn Val Ser Ala Val Asp Arg Ala Ser Gly Met Met
 35 40 45
 Val Ile Lys Pro Ser Gly Val Glu Tyr Asp Val Met Thr Ala Glu Asp
 50 55 60
 Met Val Val Val Asn Ile Ala Thr Gly Lys Val Val Glu Gly Ser Lys
 65 70 75 80
 Lys Pro Ser Ser Asp Thr Pro Thr His Leu Ala Leu Tyr Arg Arg Tyr
 85 90 95
 Pro Glu Ile Gly Gly Ile Val His Thr His Ser Arg His Ala Thr Ile
 100 105 110
 Trp Ser Gln Ala Gly Gln Asp Leu Pro Ala Trp Gly Thr Thr His Ala
 115 120 125
 Asp Tyr Phe Tyr Gly Ala Ile Pro Cys Thr Arg Leu Met Thr Thr Ala
 130 135 140
 Glu Ile Ala Gly Glu Tyr Glu Tyr Gln Thr Gly Val Val Ile Ile Lys
 145 150 155 160
 Thr Phe Glu Glu Arg Asp Ile Ser Pro Met Gln Val Pro Ala Val Leu
 165 170 175
 Val His Ser His Gly Pro Phe Ala Trp Gly Lys Asp Ala Ala Asp Ala
 180 185 190
 Val His Asn Ala Val Val Leu Glu Glu Cys Ala Tyr Met Gly Leu Phe
 195 200 205
 Ser Arg Gln Leu Ala Pro Gln Leu Pro Val Met Gln Gln Glu Leu Leu
 210 215 220
 Glu Lys His Tyr Leu Arg Lys His Gly Ala Asn Ala Tyr Tyr Gly Gln
 225 230 235 240

<210> 9933
 <211> 651
 <212> PRT
 <213> Enterobacter cloacae

<400> 9933
 Thr Ser Gly His Lys Pro Lys Arg Lys His Lys Lys Gly Cys Phe Met
 1 5 10 15
 Ser Ser Asp Phe Lys Ile Lys Val Gln Ser Phe Gly Arg Phe Leu Ser
 20 25 30
 Asn Met Val Met Pro Asn Ile Gly Ala Phe Ile Ala Trp Gly Ile Ile
 35 40 45
 Thr Ala Leu Phe Ile Pro Thr Gly Trp Leu Pro Asn Glu Thr Leu Ala
 50 55 60
 Lys Leu Val Gly Pro Met Ile Thr Tyr Leu Leu Pro Leu Leu Ile Gly
 65 70 75 80
 Tyr Thr Gly Gly Arg Leu Val Gly Gly Asp Arg Gly Gly Val Val Gly
 85 90 95
 Ala Ile Thr Thr Met Gly Val Ile Val Gly Ala Asp Met Pro Met Phe
 100 105 110
 Leu Gly Ala Met Ile Ala Gly Pro Leu Gly Gly Trp Ala Ile Lys Lys

Phe	Asp	115	Val	Trp	Val	Asp	Gly	120	Lys	Ile	Lys	Ser	Gly	125	Phe	Glu	Met	Leu
		130						135						140				
Val	Asn	Asn	Phe	Ser	Ala	Gly	Ile	Ile	Gly	Met	Ile	Leu	Ala	Ile	Leu	Ala	Ile	Leu
145	Phe	Leu	Gly	Ile	Gly	Pro	Ala	Val	Glu	Val	Leu	Ser	Lys	Leu	Leu	Ala	Ile	Leu
165																		
Ala	Ala	Gly	Val	Asn	Phe	Met	Val	Ala	His	Asp	Met	Leu	Pro	Leu	Ala	Ile	Leu	Leu
Ser	Ile	Phe	Val	Glu	Pro	Ala	Lys	Ile	Leu	Phe	Leu	Asn	Asn	Ala	Ile	Leu	Ala	Ile
Asn	His	Gly	Ile	Phe	Ser	Pro	Leu	Gly	Ile	Gln	Gln	Ser	His	Asp	Leu	Ala	Ile	Leu
210	Lys	Ser	Ile	Phe	Phe	Leu	Ile	Glu	Ala	Asn	Pro	Gly	Pro	Gly	Met	Gln	Met	Leu
215																		
Gly	Val	Leu	Leu	Ala	Tyr	Met	Phe	Phe	Gly	Arg	Gly	Ser	Ala	Lys	Gln	Ala	Ile	Leu
225	Ala	Gly	Gly	Ala	Ala	Ile	Ile	His	Phe	Leu	Gly	Ile	Gly	Ile	His	Glu	Val	Leu
230																		
Gly	Tyr	Phe	Pro	Tyr	Val	Leu	Met	Asn	Pro	Arg	Leu	Ile	Leu	Ala	Val	Leu	Gly	Gly
245	Leu	Gly	Gly	Met	Thr	Gly	Val	Phe	Thr	Leu	Ser	Val	Leu	Gly	Gly	Ile	Ala	Val
250																		
Ser	Ala	Gly	Gly	Ala	Ala	Ile	Ile	His	Phe	Leu	Gly	Gly	Ile	His	Glu	Val	Leu	Gly
Ile	Tyr	Phe	Pro	Tyr	Val	Leu	Met	Asn	Pro	Arg	Leu	Ile	Leu	Ala	Val	Leu	Gly	Gly
265	Leu	Gly	Gly	Met	Thr	Gly	Val	Phe	Thr	Leu	Ser	Val	Leu	Gly	Gly	Ile	Ala	Val
270																		
Ile	Leu	Gly	Gly	Met	Thr	Gly	Val	Phe	Thr	Leu	Ser	Val	Leu	Gly	Gly	Ile	Ala	Val
285	Leu	Val	Ser	Pro	Ala	Ser	Pro	Gly	Ser	Ile	Leu	Ala	Val	Leu	Ala	Val	Leu	Ala
290																		
Gly	Leu	Val	Ser	Pro	Ala	Ser	Pro	Gly	Ser	Ile	Leu	Ala	Val	Leu	Ala	Val	Leu	Ala
305	Thr	Pro	Lys	Gly	Ala	Tyr	Phe	Ala	Asn	Ile	Ala	Ala	Ile	Cys	Ala	Val	Leu	Ala
310																		
Met	Thr	Pro	Lys	Gly	Ala	Tyr	Phe	Ala	Asn	Ile	Ala	Ala	Ile	Cys	Ala	Val	Leu	Ala
325	Met	Ala	Val	Ser	Phe	Val	Ala	Ser	Ala	Ile	Leu	Leu	Lys	Thr	Ser	Val	Leu	Ala
330																		
Ala	Met	Ala	Val	Ser	Phe	Val	Ala	Ser	Ala	Ile	Leu	Leu	Lys	Thr	Ser	Val	Leu	Ala
345	Val	Lys	Glu	Asp	Asp	Ile	Glu	Ala	Ala	Thr	Arg	Met	His	Gly	Asp	Val	Leu	Ala
350																		
Lys	Val	Lys	Glu	Asp	Asp	Ile	Glu	Ala	Ala	Thr	Arg	Met	His	Gly	Asp	Val	Leu	Ala
365	Met	Lys	Ala	Glu	Ser	Lys	His	Val	Arg	Lys	Ile	Val	Ala	Cys	Asp	Val	Leu	Ala
370																		
Val	Ser	Asn																

Ala Ala Arg Asn Asn Glu His Ile Gln Val Ile Thr Ser Leu Thr Asn
 610 615 620
 Ala Leu Asp Asp Glu Thr Val Ile Glu Arg Leu Ala Asn Thr Thr Ser
 625 630 635 640
 Val Glu Glu Val Leu Ala Leu Leu Asn Lys
 645 650

<210> 9934

<211> 592

<212> PRT

<213> Enterobacter cloacae

<400> 9934

Pro Phe Ile Ala Ile Asn Pro Thr Ser Gln Tyr Trp Lys Asp His Phe
 1 5 10 15
 Tyr Thr Lys Cys Asp Ala Glu Met Ser Arg Asp Ser Pro Asp Glu His
 20 25 30
 Pro Cys Gly Pro Gln Glu Thr Cys Met Ser Leu Trp Gln Gln Asn Tyr
 35 40 45
 Asp Pro Ala Gly Asn Ile Trp Leu Ser Ser Leu Ile Ala Ser Leu Pro
 50 55 60
 Ile Leu Phe Phe Phe Ala Leu Ile Lys Leu Lys Leu Lys Gly Tyr
 65 70 75 80
 Leu Ala Ala Thr Tyr Thr Val Ala Ile Ala Leu Leu Val Ala Leu Phe
 85 90 95
 Phe Tyr Lys Met Pro Val Asp Arg Ala Leu Ala Ser Val Val Tyr Gly
 100 105 110
 Phe Phe Tyr Gly Leu Trp Pro Ile Ala Trp Ile Ile Ile Ala Ala Val
 115 120 125
 Phe Val Tyr Lys Ile Ser Val Lys Thr Gly Gln Phe Asp Ile Ile Arg
 130 135 140
 Ser Ser Ile Leu Ser Ile Thr Pro Asp Gln Arg Leu Gln Met Leu Ile
 145 150 155 160
 Val Gly Phe Ser Phe Gly Ala Phe Leu Glu Gly Ala Ala Gly Phe Gly
 165 170 175
 Ala Pro Val Ala Ile Thr Ala Ala Leu Leu Val Gly Leu Gly Phe Asn
 180 185 190
 Pro Leu Tyr Ala Ala Gly Leu Cys Leu Ile Val Asn Thr Ala Pro Val
 195 200 205
 Ala Phe Gly Ala Met Gly Ile Pro Ile Leu Val Ala Gly Gln Val Thr
 210 215 220
 Gly Leu Asp Ser Phe Glu Ile Gly Gln Met Val Gly Arg Gln Leu Pro
 225 230 235 240
 Phe Leu Thr Ile Ile Val Leu Phe Trp Ile Met Ala Ile Met Asp Gly
 245 250 255
 Trp Arg Gly Val Lys Glu Thr Trp Pro Ala Val Met Val Ala Gly Gly
 260 265 270
 Ser Phe Ala Ile Ala Gln Tyr Leu Ser Ser Asn Phe Leu Gly Gln Glu
 275 280 285
 Leu Pro Asp Ile Ile Ser Ser Leu Val Ser Leu Val Cys Leu Thr Leu
 290 295 300
 Phe Leu Lys Arg Trp Gln Pro Val Arg Ile Phe Arg Phe Ala Asp Met
 305 310 315 320
 Gly Ala Ser His Val Asp Gln Thr Leu Ala Arg Thr Gly Tyr Thr Ala
 325 330 335
 Gly Gln Ile Val Arg Ala Trp Ser Pro Phe Leu Phe Leu Thr Ala Thr
 340 345 350
 Val Thr Leu Trp Ser Ile Pro Pro Phe Lys Ala Leu Phe Ala Pro Gly
 355 360 365
 Gly Ala Leu Tyr Asp Met Val Ile Asn Ile Ser Val Pro Phe Leu Asp
 370 375 380

```

Lys Met Val Ala Arg Met Pro Pro Val Val His Asp Ala Thr Pro Tyr
385          390          395          400
Ala Ala Val Phe Lys Phe Asp Trp Phe Ser Ala Thr Gly Thr Ala Ile
          405          410          415
Leu Phe Ala Ala Ile Leu Ser Val Val Trp Leu Arg Met Lys Pro Ala
          420          425          430
Ala Ala Val Gln Thr Phe Ala Ala Thr Ile Lys Glu Leu Met Leu Pro
          435          440          445
Ile Tyr Ser Ile Gly Met Val Leu Ala Phe Ala Phe Ile Ser Asn Tyr
          450          455          460
Ser Gly Leu Ser Ser Thr Leu Ala Leu Ala His Thr Gly His
465          470          475          480
Ala Phe Thr Phe Phe Ser Pro Phe Leu Gly Trp Leu Gly Val Phe Leu
          485          490          495
Thr Gly Ser Asp Thr Ser Ser Asn Ala Leu Phe Ala Ala Leu Gln Ala
          500          505          510
Thr Ala Ala Gln Gln Ile Gly Val Ser Asp Val Leu Leu Val Ala Ala
          515          520          525
Asn Thr Thr Gly Gly Val Thr Gly Lys Met Ile Ser Pro Gln Ser Ile
          530          535          540
Ala Ile Ala Cys Ala Ala Val Gly Leu Val Gly Lys Glu Ser Asp Leu
545          550          555          560
Phe Arg Phe Thr Val Lys His Ser Leu Ile Phe Thr Cys Met Val Gly
          565          570          575
Val Ile Thr Thr Leu Gln Ala Tyr Val Leu Thr Trp Met Ile Pro
          580          585          590

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<210> 9935

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 9935

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Trp Arg Arg Ala Ser Arg Ser Ala Cys Arg Lys Thr Ile Ala Thr Pro
1          5          10          15
Leu Thr Pro Cys Ser Thr Pro Thr Ala Leu Val Arg Lys Thr Val Trp
          20          25          30
Ala Ser Gly Ala Ile Lys Lys Thr Ala Lys Ala Asn Arg Lys Lys
          35          40          45
Lys Met Arg Arg Trp Met Ala Leu Leu Ala Asp Val Ser Gln Pro Lys
          50          55          60
Arg Asp Phe Thr Asp Asp Glu Ile Ile Ala Arg Met Met Ile Pro Met
65          70          75          80
Ile Asn Glu Val Val Arg Cys Leu Glu Glu Gly Ile Ile Ala Ser Pro
          85          90          95
Ala Glu Ala Asp Met Ala Leu Val Tyr Gly Leu Gly Phe Pro Pro Phe
          100          105          110
His Gly Gly Ala Phe Arg Trp Leu Asp Thr Leu Gly Ser Ala Arg Tyr
          115          120          125
Leu Asp Met Ala Gln Gln Tyr Gln His Leu Gly Pro Leu Tyr Glu Val
          130          135          140
Pro Glu Gly Leu Arg Asn Lys Ala Arg His Asn Glu Pro Tyr Tyr Pro
145          150          155          160
Ala Val Glu Pro Ala Arg Pro Val Gly Ala Leu Lys Thr Ala
          165          170          175

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<210> 9936

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 9936
 Gly Val Thr Met Glu Lys Val Val Ile Val Asp Ala Ile Arg Thr Pro
 1 5 10 15
 Met Gly Arg Ser Lys Gly Gly Ala Phe Arg Asn Val Arg Ala Glu Asp
 20 25 30
 Leu Ser Ala His Leu Met Arg Ser Leu Leu Ala Arg Asn Pro Ala Leu
 35 40 45
 Asp Pro Ala Ala Leu Asp Asp Ile Tyr Trp Gly Cys Val Gln Gln Thr
 50 55 60
 Leu Glu Gln Gly Phe Asn Ile Ala Arg Asn Ala Ser Leu Leu Ala Glu
 65 70 75 80
 Ile Pro His Ser Val Pro Ala Val Thr Val Asn Arg Leu Cys Gly Ser
 85 90 95
 Ser Met Gln Ala Leu His Asp Ala Thr Arg Met Ile Met Thr Gly Asp
 100 105 110
 Ala Gln Ala Cys Leu Val Gly Gly Val Glu His Met Gly His Val Pro
 115 120 125
 Met Ser His Gly Val Asp Phe His Pro Gly Met Ser Arg Asn Val Ala
 130 135 140
 Lys Ala Ala Gly Met Met Gly Leu Thr Ala Glu Met Leu Ser Arg Leu
 145 150 155 160
 His Gly Ile Ser Arg Glu Met Gln Asp Ala Phe Ala Ala Arg Ser His
 165 170 175
 Ala Arg Ala Trp Ala Ala Thr Gln Ser Gly Ala Phe Lys Asn Glu Ile
 180 185 190
 Ile Pro Thr Gly Gly His Asp Ala Asp Gly Val Leu Lys Gln Phe Ser
 195 200 205
 Tyr Asp Glu Val Ile Arg Pro Glu Thr Thr Val Glu Ala Leu Ser Thr
 210 215 220
 Leu Arg Pro Val Phe Asp Pro Val Thr Gly Thr Val Thr Ala Gly Thr
 225 230 235 240
 Ser Ser Ala Leu Ser Asp Gly Ala Ala Ala Met Leu Val Met Ser Glu
 245 250 255
 Ser Arg Ala Arg Glu Leu Gly Leu Thr Pro Arg Ala Arg Val Arg Ser
 260 265 270
 Met Ala Val Val Gly Cys Asp Pro Ser Ile Met Gly Tyr Gly Pro Val
 275 280 285
 Pro Ala Ser Lys Leu Ala Leu Lys Lys Ala Gly Leu Ser Ala Ser Asp
 290 295 300
 Ile Asp Leu Phe Glu Met Asn Glu Ala Phe Ala Ala Gln Ile Leu Pro
 305 310 315 320
 Cys Ile Lys Asp Leu Gly Leu Met Asp Gln Ile Asp Glu Lys Ile Asn
 325 330 335
 Leu Asn Gly Gly Ala Ile Ala Leu Gly His Pro Leu Gly Cys Ser Gly
 340 345 350
 Ala Arg Ile Ser Thr Thr Leu Ile Asn Leu Met Glu Arg Lys Asp Ala
 355 360 365
 Gln Phe Gly Leu Ala Thr Met Cys Ile Gly Leu Gly Gln Gly Ile Ala
 370 375 380
 Thr Val Phe Glu Arg Val
 385 390

<210> 9937

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9937

Gln His Val Tyr Arg Leu Lys Ser Val Ile Leu Arg Ile Ser Pro Ala
 1 5 10 15
 Pro Tyr Lys Leu Ala Trp Leu Asn Ser Glu Phe Ser Lys Gly Lys Val

20										25										30									
Leu	Arg	Asn	Arg	Ser	His	Thr	Phe	Phe	Ile	Arg	Asn	Thr	Glu	Glu	Leu	Leu	Arg	Asn	Thr	Glu	Glu	Leu	Leu	Arg	Asn	Thr	Glu	Glu	Leu
		35						40					45																
Met	Gln	Ser	Lys	Ile	Asn	Trp	Ile	Asp	Asn	Leu	Arg	Gly	Ile	Ala	Cys	Met	Gln	Ser	Lys	Ile	Asn	Trp	Met	Gln	Ser	Lys	Ile	Asn	Trp
		50					55					60																	
Leu	Met	Val	Val	Met	Ile	His	Thr	Thr	Thr	Trp	Tyr	Val	Thr	Asn	Ala	Leu	Met	Val	Val	Met	Ile	His	Leu	Met	Val	Val	Met	Ile	His
65					70					75				80		65					70		65					70	
His	Ser	Ile	Ser	Pro	Val	Asn	Trp	Asp	Val	Ala	Asn	Val	Leu	Asn	Ser	His	Ser	Ile	Ser	Pro	Val	Asn	His	Ser	Ile	Ser	Pro	Val	Asn
				85				90						95						85							85		
Ala	Ser	Arg	Val	Ser	Val	Pro	Leu	Phe	Phe	Met	Ile	Ser	Gly	Phe	Leu	Ala	Ser	Arg	Val	Ser	Val	Pro	Ala	Ser	Arg	Val	Ser	Val	Pro
				100				105					110							100							100		
Phe	Phe	Gly	Glu	Arg	Ser	Ala	Gln	Pro	Arg	His	Phe	Ile	Arg	Ile	Val	Phe	Phe	Gly	Glu	Arg	Ser	Ala	Phe	Phe	Gly	Glu	Arg	Ser	Ala
		115					120					125								115							115		
Ser	Cys	Leu	Leu	Phe	Tyr	Ser	Ala	Ile	Ser	Leu	Leu	Tyr	Ile	Val	Leu	Ser	Cys	Leu	Leu	Phe	Tyr	Ser	Ser	Cys	Leu	Leu	Phe	Tyr	Ser
		130				135					140									130							130		
Phe	Thr	Ser	Ile	Asn	Ala	Glu	Arg	Ser	Leu	Leu	Asn	Leu	Gln	Lys		Phe	Thr	Ser	Ile	Asn	Ala	Glu	Phe	Thr	Ser	Ile	Asn	Ala	Glu
145				150				155					160			145				150			145				150		
Pro	Val	Phe	Tyr	His	Leu	Trp	Phe	Phe	Phe	Ala	Ile	Ile	Val	Ile	Tyr	Pro	Val	Phe	Tyr	His	Leu	Trp	Pro	Val	Phe	Tyr	His	Leu	Trp
				165				170					175							165							165		
Leu	Val	Ser	Pro	Leu	Ile	Gln	Val	Lys	Asn	Val	Asn	Gly	Lys	Met	Leu	Leu	Val	Ser	Pro	Leu	Ile	Gln	Leu	Val	Ser	Pro	Leu	Ile	Gln
				180				185					190							180							180		
Leu	Ala	Leu	Met	Val	Val	Ile	Gly	Ile	Val	Ala	Asn	Pro	Asn	Thr	Val	Leu	Ala	Leu	Met	Val	Val	Ile	Leu	Ala	Leu	Met	Val	Val	Ile
		195				200						205								195							195		
Ser	Gln	Lys	Ile	Asp	Gly	Phe	Glu	Trp	Leu	Pro	Val	Asn	Leu	Tyr	Ile	Ser	Gln	Lys	Ile	Asp	Gly	Phe	Ser	Gln	Lys	Ile	Asp	Gly	Phe
		210				215						220								210							210		
Thr	Gly	Asp	Thr	Phe	Tyr	Tyr	Val	Leu	Tyr	Gly	Met	Leu	Gly	Arg	Ala	Thr	Gly	Asp	Thr	Phe	Tyr	Tyr	Thr	Gly	Asp	Thr	Phe	Tyr	Tyr
225				230				235					240			225				230			225				230		
Ile	Gly	Met	Met	Glu	Thr	Gln	Lys	Arg	Gly	Ile	Asn	Trp	Leu	Cys	Ala	Ile	Gly	Met	Met	Glu	Thr	Gln	Ile	Gly	Met	Met	Glu	Thr	Gln
				245				250					255							245							245		
Ala	Ala	Phe	Leu	Val	Gly	Val	Phe	Ile	Ile	Ser	Arg	Gly	Thr	Leu	His	Ala	Ala	Phe	Leu	Val	Gly	Val	Ala	Ala	Phe	Leu	Val	Gly	Val
				260				265					270							260							260		
Glu	Leu	Gln	Trp	Arg	Gly	Asn	Phe	Ala	Asp	Thr	Trp	Tyr	Leu	Tyr	Cys	Glu	Leu	Gln	Trp	Arg	Gly	Asn	Glu	Leu	Gln	Trp	Arg	Gly	Asn
				275			280					285								275							275		
Gly	Pro	Met	Val	Phe	Ile	Cys	Ala	Ile	Ser	Leu	Leu	Thr	Leu	Val	Lys	Gly	Pro	Met	Val	Phe	Ile	Cys	Gly	Pro	Met	Val	Phe	Ile	Cys
		290				295					300									290							290		
Asn	Thr	Leu	Asn	Ala	Arg	Pro	Leu	Pro	Val	Leu	Gly	Phe	Ile	Ser	Arg	Asn	Thr	Leu	Asn	Ala	Arg	Pro	Asn	Thr	Leu	Asn	Ala	Arg	Pro
				310							315									310							310		
His	Ser	Leu	Gly	Ile	Tyr	Gly	Phe	His	Ala	Leu	Val	Ile	His	Ala	Leu	His	Ser	Leu	Gly	Ile	Tyr	Gly	His	Ser	Leu	Gly	Ile	Tyr	Gly
				325				330					335							325							325		
Arg	Thr	Arg	Gly	Val	Glu	Leu	Lys	Ser	Trp	Pro	Val	Leu	Asp	Ile	Val	Arg	Thr	Arg	Gly	Val	Glu	Leu	Arg	Thr	Arg	Gly	Val	Glu	Leu
				340				345					350							340							340		
Trp	Ile	Phe	Thr	Val	Thr	Leu	Val	Ser	Leu	Leu	Ser	Met	Leu			Trp	Ile	Phe	Thr	Val	Thr	Leu	Trp	Ile	Phe	Thr	Val	Thr	Leu
		355				360					365									355							355		
Leu	Gln	Arg	Ile	Asp	Thr	Arg	Arg	Phe	Val	Ser						Leu	Gln	Arg	Ile	Asp	Thr	Arg	Leu	Gln	Arg	Ile	Asp	Thr	Arg
		370				375					380									370							370		

<210> 9938

<211> 398

<212> PRT

<213> Enterobacter cloacae

<400> 9938

Gly	Ala	Asn	Ala	Met	Ser	Lys	Ser	Asn	Pro	Ser	Asp	Ile	Lys	Val	Ala
1				5				10					15		
Val	Pro	Thr	Pro	Gly	Ala	Phe	Ala	Gly	Leu	Lys	Ser	Leu	Asn	Leu	Gln
			20					25				30			
Val	Phe	Val	Met	Ile	Ala	Ala	Ile	Ile	Val	Ile	Met	Leu	Phe	Phe	Thr
		35				40					45				
Trp	Met	Thr	Asp	Gly	Ser	Tyr	Leu	Ser	Ala	Arg	Asn	Val	Ser	Asn	Leu
		50				55					60				
Leu	Arg	Gln	Thr	Ala	Ile	Thr	Gly	Ile	Leu	Ala	Val	Gly	Met	Val	Phe

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65          70          75          80
Val Ile Ile Ser Ala Glu Ile Asp Leu Ser Val Gly Ser Met Met Gly
85          90          95
Leu Leu Gly Gly Val Ala Ala Ile Phe Asp Val Trp Leu Gly Trp Pro
100         105         110
Leu Pro Leu Thr Ile Ala Val Thr Leu Val Leu Gly Leu Leu Leu Gly
115         120         125
Ala Trp Asn Gly Trp Trp Val Ala Tyr Arg Lys Val Pro Ser Phe Ile
130         135         140
Val Thr Leu Ala Gly Met Leu Ala Phe Arg Gly Ile Leu Ile Gly Ile
145         150         155         160
Thr Asn Gly Thr Thr Val Ser Pro Thr Ser Ala Ser Met Ser Gln Ile
165         170         175
Gly Gln Ser Tyr Leu Ser Asp Gly Val Gly Phe Thr Ile Gly Val Val
180         185         190
Gly Leu Met Ala Phe Val Ala Trp Gln Trp Arg Gly Arg Met Arg Arg
195         200         205
Gln Ala Leu Gly Leu Ala Ser Pro Ala Ser Thr Ser Val Val Gly Arg
210         215         220
Gln Ala Leu Thr Ala Val Ile Val Leu Gly Ala Ile Trp Leu Leu Asn
225         230         235         240
Asp Tyr Arg Gly Val Pro Thr Pro Val Leu Leu Ala Leu Leu Leu
245         250         255
Leu Gly Gly Met Phe Met Ala Thr Arg Thr Ala Phe Gly Arg Arg Ile
260         265         270
Tyr Ala Ile Gly Gly Asn Leu Glu Ala Ala Arg Leu Ser Gly Ile Asn
275         280         285
Val Glu Arg Thr Lys Leu Ala Val Phe Ala Ile Asn Gly Leu Met Val
290         295         300
Ala Ile Ala Gly Leu Ile Leu Ser Ser Arg Leu Gly Ala Gly Ser Pro
305         310         315         320
Ser Ala Gly Asn Ile Ala Glu Leu Asp Ala Ile Ala Ala Cys Val Ile
325         330         335
Gly Gly Thr Ser Leu Ala Gly Gly Ile Gly Ser Val Ala Gly Ala Val
340         345         350
Met Gly Ala Phe Ile Met Ala Ser Leu Asp Asn Gly Met Ser Met Met
355         360         365
Asp Val Pro Thr Phe Trp Gln Tyr Ile Val Lys Gly Ala Ile Leu Leu
370         375         380
Leu Ala Val Trp Met Asp Ser Ala Thr Lys Arg Arg Ala
385         390         395

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<210> 9939

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 9939

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Ala Met Phe Glu Lys Arg His Arg Ile Thr Leu Leu Phe Asn Ala Asn
1          5          10          15
Lys Ala Tyr Asp Arg Gln Val Val Glu Gly Val Gly Glu Tyr Leu Gln
20         25         30
Ala Ser Gln Ser Glu Trp Asp Ile Phe Ile Glu Glu Asp Phe Arg Thr
35         40         45
Arg Leu Glu Asn Ile Lys Asp Trp Leu Gly Asp Gly Val Ile Ala Asp
50         55         60
Phe Asp Asp Pro Val Ile Glu Gln Leu Leu Ser Gly Val Asp Val Pro
65         70         75         80
Ile Val Gly Val Gly Gly Ser Tyr His Thr Pro Glu His Tyr Pro Pro
85         90         95
Val His Tyr Ile Ala Thr Asp Asn His Ala Leu Val Glu Thr Ala Phe

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100 105 110
 Leu His Leu Lys Glu Lys Gly Val His Arg Phe Ala Phe Tyr Gly Leu
 115 120 125
 Pro Ala Thr Ser Gly Lys Arg Trp Ala Met Glu Arg Glu Tyr Ala Phe
 130 135 140
 Cys Gln Leu Val Ala Gln Glu Lys Tyr Arg Gly Val Val Tyr Gln Gly
 145 150 155 160
 Leu Glu Thr Ala Pro Glu Asn Trp Gln His Ala Gln Asn Arg Leu Ala
 165 170 175
 Asp Trp Leu Gln Thr Leu Pro Pro Gln Thr Gly Ile Ile Ala Val Thr
 180 185 190
 Asp Ala Arg Ala Arg His Val Leu Gln Val Cys Glu His Leu His Ile
 195 200 205
 Pro Val Pro Glu Lys Leu Cys Val Ile Gly Ile Asp Asn Glu Glu Leu
 210 215 220
 Thr Arg Tyr Leu Ser Arg Val Ala Leu Ser Ser Val Ala Gln Gly Thr
 225 230 235 240
 Arg Gln Met Gly Tyr Gln Ala Ala Lys Leu Leu His Arg Leu Leu Asp
 245 250 255
 Asn Glu Ser Leu Pro Leu Gln Arg Leu Leu Val Pro Pro Val Arg Val
 260 265 270
 Val Glu Arg Arg Ser Thr Asp Tyr Arg Ser Leu Asn Asp Pro Ala Val
 275 280 285
 Ile Gln Ala Met His Tyr Ile Arg Asn His Ala Cys Lys Gly Ile Lys
 290 295 300
 Val Asp Gln Val Leu Asp Ser Val Gly Ile Ser Arg Ser Asn Leu Glu
 305 310 315 320
 Lys Arg Phe Lys Glu Glu Val Gly Glu Thr Ile His Ala Val Ile His
 325 330 335
 Ala Glu Lys Leu Glu Lys Ala Arg Ser Leu Leu Ile Ser Thr Ser Leu
 340 345 350
 Ser Ile Asn Glu Ile Ser Gln Met Cys Gly Tyr Pro Ser Leu Gln Tyr
 355 360 365
 Phe Tyr Ser Val Phe Arg Lys Glu Tyr Asp Thr Thr Pro Lys Glu Tyr
 370 375 380
 Arg Glu Arg Tyr Ser Glu Val Leu Leu
 385 390

<210> 9940

<211> 466

<212> PRT

<213> *Enterobacter cloacae*

<400> 9940

Gly Ala Phe Thr Arg Thr Ile His His Thr Asn Thr Asn Pro Pro His
 1 5 10 15
 Lys Thr Thr Asn Pro Thr Thr Ser Ala Asp Leu His Gln His Gly Ala
 20 25 30
 Gly Val Met Val Thr Ala Phe His Ile Lys Pro Asp Arg Ser Pro Ala
 35 40 45
 Met Thr Phe Ser Leu Phe Gly Asp Lys Phe Thr Arg His Ser Gly Ile
 50 55 60
 Thr Arg Leu Met Glu Asp Leu Asn Asp Gly Leu Arg Thr Pro Gly Ala
 65 70 75 80
 Ile Met Leu Gly Gly Glu Asn Pro Ala Gln Ile Pro Glu Met Asn Thr
 85 90 95
 Tyr Phe Gln Thr Leu Leu Ala Glu Met Leu Glu Asn Gly Lys Ala Thr
 100 105 110
 Asp Ala Leu Cys Asn Tyr Asp Gly Pro Gln Gly Lys Thr Glu Leu Leu
 115 120 125
 Thr Leu Leu Ala Ala Met Leu Arg Glu Ala Leu Gly Trp Asp Ile Glu

130 135 140
 Pro Gln Asn Ile Ala Leu Thr Asn Gly Ser Gln Ser Ala Phe Phe Tyr
 145 150 155 160
 Leu Phe Asn Leu Phe Ala Gly Arg Arg Ala Asp Gly Thr Thr Lys Lys
 165 170 175
 Val Leu Phe Pro Leu Ala Pro Glu Tyr Ile Gly Tyr Ala Asp Ala Gly
 180 185 190
 Leu Glu Glu Asp Leu Phe Val Ser Ala Arg Pro Asn Ile Glu Leu Leu
 195 200 205
 Pro Glu Gly Gln Phe Lys Tyr His Val Asp Phe Glu His Leu His Ile
 210 215 220
 Gly Glu Glu Thr Gly Met Ile Cys Val Ser Arg Pro Thr Asn Pro Thr
 225 230 235 240
 Gly Asn Val Ile Thr Asp Asp Glu Leu Met Lys Leu Asp Ala Leu Ala
 245 250 255
 Asn Gln His Gly Ile Pro Leu Val Ile Asp Asn Ala Tyr Gly Val Pro
 260 265 270
 Phe Pro Gly Ile Ile Phe Ser Glu Ala Arg Pro Leu Trp Asn Pro Asn
 275 280 285
 Ile Ile Leu Cys Met Ser Leu Ser Lys Leu Gly Leu Pro Gly Ser Arg
 290 295 300
 Cys Gly Ile Ile Ile Ala Asn Glu Lys Ile Ile Thr Ala Ile Thr Asn
 305 310 315 320
 Met Asn Gly Ile Ile Ser Leu Ser Pro Gly Gly Ile Gly Pro Ala Met
 325 330 335
 Met Cys Glu Met Ile Arg Arg Asn Asp Leu Leu Arg Leu Ser Asn Glu
 340 345 350
 Val Ile Lys Pro Phe Tyr Ser Gln Arg Val Gln Glu Thr Ile Ala Ile
 355 360 365
 Leu Arg Arg Tyr Leu Pro Glu Glu Arg Cys Leu Ile His Lys Pro Glu
 370 375 380
 Gly Ala Ile Phe Leu Trp Leu Trp Phe Lys Asp Leu Pro Ile Thr Thr
 385 390 395 400
 Glu Leu Leu Tyr Gln Arg Leu Lys Lys Arg Gly Val Leu Met Val Pro
 405 410 415
 Gly Asp Tyr Phe Phe Pro Gly Leu Asp Lys Pro Trp Pro His Thr His
 420 425 430
 Gln Cys Met Arg Met Asn Tyr Val Pro Asp Pro Glu Lys Ile Glu Ala
 435 440 445
 Gly Val Lys Ile Leu Ala Glu Glu Ile Glu Asn Ala Trp Arg Glu Ala
 450 455 460
 Gly
 465

<210> 9941

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 9941

Lys Asn Arg Arg Thr Gly Met Lys Val Thr Phe Glu Glu Leu Lys Ala
 1 5 10 15
 Ala Phe Asn Arg Val Leu Leu Asp Arg Gly Val Lys Ala Asp Thr Ala
 20 25 30
 Asp Ala Cys Ala Glu Met Phe Ala Arg Thr Thr Glu Ser Gly Val Tyr
 35 40 45
 Ser His Gly Val Asn Arg Phe Pro Arg Phe Ile Gln Gln Leu Asp Ala
 50 55 60
 Gly Asp Ile Ile Pro Asp Ala Gln Pro Lys Arg Val Thr Thr Leu Gly
 65 70 75 80
 Ala Ile Glu Gln Trp Asp Ala Gln Arg Ser Ile Gly Asn Leu Thr Ala

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<210> 9942
<211> 453
<212> PRT
<213> Enterobacter cloacae
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Arg	Ile	His	Phe	Pro	Val	Thr	Phe	Thr	Glu	Ile	Leu	Thr	Met	Asn	Ile
1				5					10					15	
Ser	Ser	Asn	Ala	Leu	His	Ala	Asp	Ile	Pro	Arg	Gln	Arg	Trp	Leu	Arg
			20					25					30		
Ile	Ile	Pro	Pro	Ile	Leu	Ile	Ala	Cys	Ile	Ile	Ser	Tyr	Met	Asp	Arg
		35					40					45			
Val	Asn	Ile	Ala	Phe	Ala	Met	Pro	Gly	Gly	Met	Asp	Glu	Glu	Leu	Gly
		50				55					60				
Ile	Ser	Ala	Thr	Met	Ala	Gly	Leu	Ala	Gly	Gly	Ile	Phe	Phe	Ile	Gly
65				70						75				80	
Tyr	Leu	Phe	Leu	Gln	Val	Pro	Gly	Gly	Lys	Ile	Ala	Val	His	Gly	Ser
				85					90					95	
Gly	Lys	Lys	Phe	Ile	Gly	Trp	Ser	Leu	Val	Ala	Trp	Ala	Val	Ile	Ser
			100					105					110		
Val	Leu	Thr	Gly	Leu	Val	Thr	Asn	Gln	Tyr	Gln	Leu	Leu	Val	Leu	Arg
		115					120					125			
Phe	Leu	Leu	Gly	Val	Ala	Glu	Gly	Gly	Met	Leu	Ser	Val	Val	Leu	Thr
		130				135					140				
Met	Ile	Ser	Asn	Trp	Phe	Pro	Asp	Ala	Glu	Arg	Gly	Arg	Ala	Asn	Ala
145					150					155				160	
Ile	Val	Ile	Met	Phe	Val	Pro	Ile	Ala	Gly	Ile	Ile	Thr	Ala	Pro	Leu

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          165          170          175
Ser Gly Trp Ile Thr Ala Leu Asp Trp Arg Trp Leu Phe Ile Ile
      180      185      190
Glu Gly Leu Met Ser Val Val Val Leu Val Leu Trp Ala Phe Thr Val
      195      200      205
Tyr Asp Arg Pro Gln Glu Ala Arg Trp Ile Ser Glu Ala Glu Lys Asn
      210      215      220
Tyr Leu Val Gln Thr Leu Ala Ala Glu Gln Gln Ala Ile Ala Gly Lys
      225      230      235
Glu Val Lys Asn Ala Ser Leu Ser Ala Val Leu Ser Asp Lys Thr Met
      245      250      255
Trp Gln Leu Ile Ala Leu Asn Phe Phe Tyr Gln Thr Gly Ile Tyr Gly
      260      265      270
Tyr Thr Leu Trp Leu Pro Thr Ile Leu Lys Glu Leu Thr His Thr Ser
      275      280      285
Ile Gly Gln Val Gly Met Leu Ala Ile Leu Pro Tyr Ile Gly Ala Ile
      290      295      300
Ala Gly Met Phe Leu Phe Ser Ser Leu Ser Asp Arg Thr Gly Lys Arg
      305      310      315
Lys Leu Phe Val Ser Leu Pro Leu Ile Gly Phe Ala Leu Cys Met Phe
      325      330      335
Leu Ser Val Ala Leu Lys Glu His Thr Trp Leu Ala Tyr Ala Ala Leu
      340      345      350
Val Gly Cys Gly Phe Phe Leu Gln Ser Ala Ala Gly Val Phe Trp Thr
      355      360      365
Ile Pro Ala Arg Leu Phe Ser Ala Glu Met Ala Gly Gly Ala Arg Gly
      370      375      380
Val Ile Asn Ala Leu Gly Asn Leu Gly Gly Phe Cys Gly Pro Tyr Ala
      385      390      395
Val Gly Val Leu Ile Thr Leu Tyr Ser Lys Asp Ala Gly Val Tyr Cys
      405      410      415
Leu Ala Val Ser Leu Ala Leu Ala Ser Leu Leu Ala Leu Leu Leu Pro
      420      425      430
Ala Lys Cys Asp Ala Gly Ala Glu Pro Asn Pro Thr Val Thr Pro His
      435      440      445
Lys Arg Ala Ala
      450

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<210> 9943

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 9943

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Ser Ala Ala Gly Gly Thr Gly Ile Pro Phe Ala Asn Pro Arg His Leu
1      5      10      15
Gly Arg Val Thr Met Arg Gln His Pro Leu Gly Ile Tyr Glu Lys Ala
20      25      30
Leu Pro Lys Asp Leu Ser Trp Pro Glu Arg Leu Val Leu Ala Lys Ser
35      40      45
Cys Gly Phe Asp Phe Val Glu Met Ser Val Asp Glu Thr Asp Glu Arg
50      55      60
Leu Ser Arg Leu Glu Trp Ser Thr Thr Gln Arg Ala Ser Leu Val Glu
65      70      75      80
Ala Met Leu Glu Thr Gly Val Ala Ile Pro Ser Met Cys Leu Ser Ala
85      90      95
His Arg Arg Phe Pro Phe Gly Ser Arg Asp Glu Ile Val Arg Glu Arg
100      105      110
Ala Arg Glu Ile Met Thr Lys Ala Ile Arg Leu Ala Arg Asp Leu Gly
115      120      125
Ile Arg Thr Ile Gln Leu Ala Gly Tyr Asp Val Tyr Tyr Glu Glu His

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130 135 140
 Asp Glu Gly Thr Gln Gln Arg Phe Ala Glu Gly Leu Ala Trp Ala Val
 145 150 155 160
 Glu Gln Ala Ala Ala Gln Val Met Leu Ala Val Glu Ile Met Asp
 165 170 175
 Thr Ala Phe Met Asn Ser Ile Ser Lys Trp Lys Lys Trp Asp Asp Met
 180 185 190
 Leu Ala Ser Pro Trp Phe Ser Val Tyr Pro Asp Val Gly Asn Leu Ser
 195 200 205
 Ala Trp Gly Asn Asp Val Thr Ala Glu Leu Thr Leu Gly Ile Asp Arg
 210 215 220
 Ile Ala Ala Ile His Leu Lys Asp Thr Arg Pro Val Thr Glu Gln Ser
 225 230 235 240
 Pro Gly Gln Phe Arg Asp Val Pro Phe Gly Glu Gly Cys Val Asp Phe
 245 250 255
 Val Gly Val Phe Asn Thr Leu Asn Gln Leu Asn Tyr Arg Gly Ala Phe
 260 265 270
 Leu Ile Glu Met Trp Thr Glu Lys Ala Lys Glu Pro Val Leu Glu Ile
 275 280 285
 Ile Gln Ala Arg Arg Trp Ile Glu Ala Arg Met Gln Glu Gly Gly Met
 290 295 300
 Thr Cys
 305

<210> 9944

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 9944

Lys Asn Arg Leu Ser Arg Ser Tyr Pro Met Thr Ser Thr Pro Ile Thr
 1 5 10 15
 Asp Ala Glu Val Ala Lys Gln Ala Ala Asp Glu Arg Leu Ser Val Arg
 20 25 30
 Glu Lys Ile Gly Tyr Gly Leu Gly Asp Ala Gly Gly Thr Val Ile Thr
 35 40 45
 Cys Leu Ile Met Asn Phe Leu Thr Phe Phe Tyr Thr Asp Val Phe Gly
 50 55 60
 Leu Thr Pro Ala Leu Val Gly Thr Leu Phe Ile Ala Leu Arg Val Phe
 65 70 75 80
 Asp Ala Ile Ser Asp Pro Val Met Gly Val Ile Ala Asp Arg Thr Gln
 85 90 95
 Ser Arg Trp Gly Arg Phe Arg Pro Trp Gln Leu Trp Val Ala Leu Pro
 100 105 110
 Ile Gly Ile Val Gly Val Leu Thr Phe Thr Val Pro Asp Ala Ser Met
 115 120 125
 Gly Val Lys Ile Ala Trp Ala Phe Gly Thr Tyr Leu Leu Leu Ser Val
 130 135 140
 Gly Tyr Thr Ala Ile Asn Val Pro Tyr Cys Ala Leu Ile Asn Thr Met
 145 150 155 160
 Thr Thr Arg His Asn Glu Val Ile Ser Cys Gln Ser Trp Arg Phe Val
 165 170 175
 Leu Cys Gly Val Ala Gly Phe Leu Val Ser Val Gly Leu Pro Trp Leu
 180 185 190
 Val Ser Glu Leu Gly Gln Gly Asn Thr Ala Arg Gly Tyr Gln Leu Gly
 195 200 205
 Val Gly Val Leu Cys Ala Ile Ala Val Val Met Phe Leu Cys Cys Phe
 210 215 220
 Phe Trp Val Arg Glu Arg Val Pro Leu Ala Leu Met Gly Lys Phe Thr
 225 230 235 240
 Leu Arg Glu His Leu Ala Gly Leu Arg Lys Asn Asp Gln Leu Leu Leu

245 250 255
 Met Leu Val Met Ser Phe Leu Leu Ile Asn Val Phe Asn Ile Arg Gly
 260 265 270
 Gly Gly Tyr Met Tyr Phe Ile Thr Tyr Val Leu Gln Gly Ser Thr Ala
 275 280 285
 Tyr Thr Ser Leu Phe Phe Thr Met Val Thr Phe Ala Ala Ile Leu Gly
 290 295 300
 Ala Val Ile Val Ser Pro Leu Ser Arg Arg Ile Asp Thr Val Lys Leu
 305 310 315 320
 Tyr Tyr Tyr Thr Asn Leu Val Leu Ala Ala Leu Ala Val Gly Met Trp
 325 330 335
 Phe Leu Pro Gly Gly Pro Ala His Gln Thr Leu Trp Leu Ile Val Ile
 340 345 350
 Leu Ser Asn Gly Val Ile Leu Gly Phe Thr Leu Pro Leu His Phe Ser
 355 360 365
 Leu Met Ala Phe Ala Asp Asp Tyr Gly Glu Trp Lys Thr Gly Val Arg
 370 375 380
 Ser Ser Gly Met Asn Phe Ala Phe Asn Leu Phe Phe Ile Lys Leu Ala
 385 390 395 400
 Trp Ala Ser Ser Ala Gly Ile Ile Ser Leu Val Phe Ile Ala Val Ala
 405 410 415
 Tyr Gln Pro Gly Ala Gly Asn Gln Thr Pro Ala Ser Leu Gln Gly Ile
 420 425 430
 Thr Ala Met Glu Thr Leu Leu Pro Ala Leu Phe His Leu Leu Leu Ala
 435 440 445
 Val Ala Ile Arg Trp Cys Arg Leu Asn Asn Pro Val Met Ser Arg Ile
 450 455 460
 Ala Thr Asp Leu Arg Gln Arg His Val Gln Ser
 465 470 475

<210> 9945

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 9945

Arg Ser Cys Gly Gly Gln Arg Ile Gln Arg Asn Gln Met Met Gln
 1 5 10 15
 Ser Pro Ala Gln Val Ser Leu Arg Pro Asn Asn Arg Leu Ser Asp Met
 20 25 30
 Gln Ala Ile Met Glu Gln Thr Gln Ala Phe Glu Asn Arg Val Leu Glu
 35 40 45
 Arg Leu Asn Ala Gly Lys Thr Val Arg Ser Phe Leu Ile Ala Ala Val
 50 55 60
 Glu Leu Leu Thr Glu Ala Val Asn Ile Leu Val Leu Gln Val Phe Arg
 65 70 75 80
 Lys Asp Asp Tyr Ala Val Lys Tyr Ala Val Glu Pro Leu Leu Asp Gly
 85 90 95
 Asp Gly Pro Leu Gly Asp Leu Ser Val Arg Leu Lys Leu Ile Tyr Gly
 100 105 110
 Leu Gly Val Leu Asn Arg Gln Glu Tyr Glu Asp Ala Glu Leu Leu Met
 115 120 125
 Ala Leu Arg Glu Glu Leu Asn His Asp Gly Asn Glu Tyr Thr Phe Thr
 130 135 140
 Asp Asp Glu Ile Leu Gly Pro Phe Gly Glu Leu His Cys Val Ser Ala
 145 150 155 160
 Leu Pro Pro Ala Pro Gln Phe Asp Asn Ser Asp Pro Glu Leu Tyr Ala
 165 170 175
 Met Gln Lys Leu Arg Tyr Gln Gln Val Val Arg Ser Thr Met Val Leu
 180 185 190
 Ser Leu Thr Glu Leu Ile Ser Lys Ile Ser Leu Lys Lys Ala Phe Gln

195
 Lys
 210
 <210> 9946
 <211> 317
 <212> PRT
 <213> *Enterobacter cloacae*
 <220>
 <221> UNSURE
 <222> (293)
 <400> 9946
 Tyr Phe Gln Gly Glu Gln Ser Met Ile Ile Ser Ala Ala Ser Asp Tyr
 1 5 10 15
 Arg Ala Ala Ala Gln Arg Ile Leu Pro Pro Phe Leu Phe His Tyr Ile
 20 25 30
 Asp Gly Gly Ala Tyr Ala Glu Tyr Thr Leu Arg Arg Asn Val Glu Asp
 35 40 45
 Leu Ser Glu Val Ala Leu Arg Gln Arg Val Leu Lys Asn Met Ser Asp
 50 55 60
 Leu Ser Leu Glu Thr Lys Leu Phe Asn Glu Thr Leu Ser Met Pro Val
 65 70 75 80
 Ala Leu Ala Pro Val Gly Leu Cys Gly Met Tyr Ala Arg Arg Gly Glu
 85 90 95
 Val Gln Ala Ala Ala Ala Asp Ala Lys Gly Ile Pro Phe Thr Leu
 100 105 110
 Ser Thr Val Ser Val Cys Pro Ile Glu Glu Val Ala Pro Thr Ile Lys
 115 120 125
 Arg Pro Met Trp Phe Gln Leu Tyr Val Leu Arg Asp Arg Gly Phe Met
 130 135 140
 Arg Asn Ala Leu Glu Arg Ala Lys Ala Ala Gly Cys Ser Thr Leu Val
 145 150 155 160
 Phe Thr Val Asp Met Pro Thr Pro Gly Ala Arg Tyr Arg Asp Ala His
 165 170 175
 Ser Gly Met Ser Gly Pro Asn Ala Ala Leu Arg Arg Tyr Trp Gln Ala
 180 185 190
 Val Thr His Pro Gln Trp Ala Trp Asp Val Gly Leu Asn Gly Arg Pro
 195 200 205
 His Asp Leu Gly Asn Ile Ser Ala Tyr Leu Gly Lys Pro Thr Gly Leu
 210 215 220
 Glu Asp Tyr Ile Gly Trp Leu Ala Asn Asn Phe Asp Pro Ser Ile Ser
 225 230 235 240
 Trp Lys Asp Leu Glu Trp Ile Arg Glu Phe Trp Asp Gly Met Val
 245 250 255
 Ile Lys Gly Ile Leu Asp Pro Gly Arg Cys Pro Arg Arg Gly Ala Val
 260 265 270
 Leu Ala Pro Asn Gly Ile Val Val Ser Asn Gln Trp Gly Pro Pro Ser
 275 280 285
 Leu Asp Gly Gly Xaa Leu Leu Arg Pro Ala Pro Leu Arg Ala Ile Ala
 290 295 300
 Asp Ala Gly Glu Arg Gly Ile Leu Gly Thr Trp Ala Glu
 305 310 315
 <210> 9947
 <211> 718
 <212> PRT
 <213> *Enterobacter cloacae*
 <400> 9947

Leu Pro Asn Phe Ala Arg Asp His Ser Ser Leu Arg Val Leu Leu Ala
 1 5 10 15
 Glu Ser Arg Arg Gly Gly Val Phe Pro Leu Ser Arg Met Ala His Trp
 20 25 30
 Ser Lys Met Pro Arg Gln Glu Asn Gly Met Lys Arg Thr Ala Leu Ala
 35 40 45
 Val Leu Met Leu Pro Ala Phe Ala His Ala Asp Trp Ser Ser Pro Gly
 50 55 60
 Phe Asn Ala Phe Ser Ala Glu Gly Thr Gly Val Phe Thr Ser Gln Ala
 65 70 75 80
 Thr Leu Ala Lys Gly Thr Arg Pro Leu Thr Leu Ser Leu Asp Asn Ala
 85 90 95
 Cys Trp Gln Pro Thr Gly Ala Ile Lys Leu Asn Glu Met Leu Ser Leu
 100 105 110
 Lys Pro Cys Glu Gly Thr Pro Pro Gln Trp Arg Leu Phe Arg Asp Gly
 115 120 125
 Val Tyr Gln Met Arg Ile Asp Thr Arg Ser Gly Thr Pro Thr Leu Met
 130 135 140
 Leu Thr Val Gln Ser Ala Ala Pro Gln Pro Val Ala Asn Val Thr Arg
 145 150 155 160
 Gln Cys Pro Lys Trp Asp Gly Lys Pro Leu Thr Ile Asp Val Val Asn
 165 170 175
 Thr Phe Pro Glu Gly Thr Val Val Arg Asp Phe Tyr Ser Lys Gln Thr
 180 185 190
 Ala Thr Val Gln Asn Gly Lys Val Thr Leu Gln Pro Ala Ala Asn Ser
 195 200 205
 Asn Gly Leu Leu Leu Glu Arg Ala Glu Thr Asp Lys Pro Ala Pro
 210 215 220
 Phe Ser Trp Gln Asn Ala Thr Val Tyr Phe Val Leu Thr Asp Arg Phe
 225 230 235 240
 Val Asn Gly Asp Pro Thr Asn Asp Asn Ser Tyr Gly Arg His Lys Asp
 245 250 255
 Gly Met Gln Glu Ile Gly Thr Phe His Gly Gly Asp Leu Lys Gly Leu
 260 265 270
 Thr Ser Lys Leu Asp Tyr Leu Gln Gln Leu Gly Val Asn Ala Leu Trp
 275 280 285
 Ile Ser Ser Pro Leu Glu Gln Ile His Gly Trp Val Gly Gly Gly Thr
 290 295 300
 Lys Gly Asp Phe Pro His Tyr Ala Tyr His Gly Tyr Tyr Thr Gln Asp
 305 310 315 320
 Trp Thr Lys Leu Asp Ala Asn Met Gly Asn Glu Asp Asp Leu Arg Gln
 325 330 335
 Leu Val Asp Asp Ala His Arg Arg Gly Ile Arg Val Leu Phe Asp Ile
 340 345 350
 Val Met Asn His Ala Gly Tyr Ala Thr Leu Ala Asp Met Gln Glu Tyr
 355 360 365
 Gln Phe Gly Ala Leu Tyr Leu Gln Gly Asp Glu Leu Lys Lys Thr Leu
 370 375 380
 Gly Glu Arg Trp Thr Asp Trp Lys Pro Gly Ala Gly Gln Ser Trp His
 385 390 395 400
 Ser Phe Asn Asp Tyr Ile Asn Phe Ser Asp Lys Ala Ala Trp Glu Lys
 405 410 415
 Trp Trp Gly Lys Lys Trp Ile Arg Thr Asp Ile Gly Asp Tyr Asp Asn
 420 425 430
 Pro Gly Phe Asp Asp Leu Thr Met Ser Leu Ala Phe Leu Pro Asp Leu
 435 440 445
 Lys Thr Glu Ser Lys Ile Pro Ser Gly Leu Pro Asn Phe Tyr Gln His
 450 455 460
 Lys Pro Asp Thr Asn Ala Lys Val Met Thr Asn Phe Thr Pro Arg Asp
 465 470 475 480
 Tyr Leu Thr His Trp Leu Ser Gln Trp Val Arg Asp Tyr Gly Ile Asp

485 490 495
 Gly Phe Arg Val Asp Thr Ala Lys His Val Glu Pro Glu Ala Trp Leu
 500 505 510
 Gln Leu Lys Asn Gln Ala Ser Gln Ala Leu Ala Ala Trp Lys Ala Ala
 515 520 525
 Asn Pro Asp Lys Lys Leu Asp Asp Ala Pro Phe Trp Met Thr Gly Glu
 530 535 540
 Ser Trp Gly His Gly Val Met Gln Ser Asp Tyr Tyr Arg His Gly Phe
 545 550 555 560
 Asp Ala Met Ile Asn Phe Asp Tyr Gln Glu Gln Ala Ala Lys Ala Val
 565 570 575
 Asp Cys Leu Ala Asp Met Asp Leu Thr Trp Gln Gln Met Ala Glu Lys
 580 585 590
 Leu Gln Ser Phe Asn Val Leu Ser Tyr Leu Ser Ser His Asp Thr Arg
 595 600 605
 Leu Phe Arg Glu Gly Gly Gln Arg Ala Ala Glu Leu Leu Leu Ala
 610 615 620
 Pro Gly Ser Val Gln Ile Tyr Tyr Gly Asp Glu Ser Glu Arg Pro Phe
 625 630 635 640
 Gly Pro Thr Gly Ser Asp Pro Leu Gln Gly Thr Arg Ser Asp Met Asn
 645 650 655
 Trp Gln Asp Val Thr Gly Lys Gln Ala Leu Thr Val Ala His Trp Gln
 660 665 670
 Leu Leu Gly Gln Phe Arg Ala Arg His Pro Ala Val Gly Glu Gly Lys
 675 680 685
 Gln Thr Thr Leu Ser Met Lys Glu Gly Tyr Gly Phe Val Arg Glu His
 690 695 700
 Lys Gly Asp Lys Val Met Val Val Trp Ala Gly Asn Gln
 705 710 715

<210> 9948

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 9948

Ala Gly Gly Val Tyr Ala Ala Gln Arg Val Gly Gly Thr Gly Phe Asp
 1 5 10 15
 Ala Gly Gly Thr Ala Leu Ala Met Arg Ala Gln Ile Thr Phe Gln Arg
 20 25 30
 Leu Asn Ala Ile Phe His Asp Pro Asn Leu His Cys Pro Glu Arg Ala
 35 40 45
 Arg His His Thr Ala Phe Ala Ala Asp Thr Ala Arg Leu Leu Asn Glu
 50 55 60
 Pro Gly Ser Arg Ser Ala Val Asn Gly Pro Arg Arg Ala Asp Ile Arg
 65 70 75 80
 Ala Gly Arg Ile Phe Thr Leu Val Ala Ala His Cys Arg Gly Glu Gly
 85 90 95
 Phe Pro Leu Asn His Ala Asp Pro
 100 105

<210> 9949

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 9949

Ser Thr Val Gln Pro Ala Met Pro Asn Tyr Ser Ala Ser Trp Thr Ser
 1 5 10 15
 Ser Pro Pro Gln Asn Ala Leu Met Lys Met Ser Pro Ser Val Cys Leu
 20 25 30

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Asp Met Asn Leu Leu Ala Cys Trp Lys Lys Thr Ala Gly Thr Ala Ser
    35          40          45
Pro Ser Thr Thr Ala Cys Gly Arg Lys Ser Ser Leu Cys Lys Glu Trp
    50          55          60
Val Met Ile Phe Gly His Ile Ala Gln Pro Asn Pro Cys Arg Leu Pro
    65          70          75          80
Leu Ala Ile Glu Lys Ala Leu Asn Phe Leu Arg Thr Thr Asp Phe Thr
    85          90          95
Thr Leu Ala Pro Gly Val Ile Glu Ile Glu Gly Arg Asn Ile Phe Ala
    100          105          110
Gln Val Leu Asp Leu Thr Thr Lys Glu Gln His Glu Asn Arg Pro Glu
    115          120          125
Val His Arg Arg Tyr Leu Asp Ile Gln Phe Leu Ala Trp Gly Glu Glu
    130          135          140
Lys Ile Gly Ile Ala Ile Asp Thr Gly Asn Asn Lys Ile Ser Glu Ser
    145          150          155          160
Leu Leu Glu Gln Arg Asp Ile Ile Phe Tyr His Asp Ser Glu His Glu
    165          170          175
Ser Phe Ile Glu Met Ile Pro Gly Ser Tyr Ala Ile Phe Phe Pro Gln
    180          185          190
Asp Val His Arg Pro Ala Cys Ile Lys Asn Lys Gly Ser Ala Ile Arg
    195          200          205
Lys Ile Val Val Lys Val Ala Ile Ser Glu Leu Asp
    210          215          220

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<210> 9950

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 9950

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Gly Val Arg Pro Met Ser Arg Pro Leu Leu Gln Leu Ala Leu Asp His
  1          5          10          15
Thr Ser Leu Gln Ala Ala Gln Arg Asp Val Ala Thr Leu Ser Asp His
    20          25          30
Val Asp Ile Val Glu Ala Gly Thr Ile Leu Cys Leu Thr Glu Gly Leu
    35          40          45
Asn Ala Val Arg Ala Leu Arg Ala Gln Cys Pro Asp Lys Ile Ile Val
    50          55          60
Ala Asp Trp Lys Val Ala Asp Ala Gly Glu Thr Leu Ala Glu Gln Ala
    65          70          75          80
Phe Gly Ala Gly Ala Asn Trp Met Thr Ile Ile Cys Ala Ala Pro Leu
    85          90          95
Ala Thr Val Glu Arg Gly His Glu Val Ala Leu Arg Gly Gly Glu
    100          105          110
Ile Gln Met Glu Leu Phe Gly Asn Trp Thr Leu Asp Asp Ala Arg Ala
    115          120          125
Trp His Arg Ile Gly Val Lys Gln Ala Ile Tyr His Arg Gly Arg Asp
    130          135          140
Ala Gln Ala Ser Gly Gln Gln Trp Gly Glu Ala Asp Leu Ser Lys Met
    145          150          155          160
Lys Ala Leu Ser Asp Ile Gly Leu Gln Leu Ser Ile Thr Gly Gly Ile
    165          170          175
Thr Pro Ala Asp Leu Ser Leu Phe Lys Gln Ile Asn Val Lys Ala Phe
    180          185          190
Ile Ala Gly Arg Ala Leu Ala Gly Ala Asp Asn Pro Pro Gln Val Ala
    195          200          205
Gln Ala Phe His Ser Gln Ile Arg Asp Ile Trp Gly Glu
    210          215          220

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<210> 9951

<211> 669

<212> PRT

<213> *Enterobacter cloacae*

<400> 9951

Cys Arg Ala Leu Pro Ile Cys Ala Ser Val Met Tyr Ser Pro Glu
 1 5 10 15
 Glu Asn Asp Met Thr Ile Met Glu Ala Asp Leu His Gln Leu Lys Ile
 20 25 30
 Asn Asp Pro Phe Leu Gly Gln Tyr Gln Arg Leu Val Arg Asp Val Val
 35 40 45
 Ile Pro Tyr Gln Trp Asp Ala Leu Asn Asp Arg Val Ala Glu Ala Glu
 50 55 60
 Pro Ser His Ala Ile Ala Asn Phe Arg Ile Ala Ala Gly Leu Glu Gln
 65 70 75 80
 Gly Glu Phe Tyr Gly Met Val Phe Gln Asp Ser Asp Val Ala Lys Trp
 85 90 95
 Leu Glu Ala Val Ala Trp Ser Leu Cys Gln Lys Pro Asp Ala Glu Leu
 100 105 110
 Glu Lys Thr Ala Asp Glu Val Ile Glu Leu Val Ala Ala Gln Cys
 115 120 125
 Glu Asp Gly Tyr Leu Asn Thr Tyr Phe Thr Val Lys Ala Pro Ala Glu
 130 135 140
 Arg Trp Thr Asn Leu Ala Glu Cys His Glu Leu Tyr Cys Ala Gly His
 145 150 155 160
 Met Ile Glu Ala Gly Val Ala Tyr Phe Gln Gly Thr Gly Lys Arg Arg
 165 170 175
 Leu Leu Asp Val Val Cys Arg Leu Ala Asp His Ile Asp Ser Val Phe
 180 185 190
 Gly Pro Gly Glu Asn Gln Leu His Gly Tyr Pro Gly His Pro Glu Ile
 195 200 205
 Glu Leu Ala Leu Met Arg Leu Tyr Asp Val Thr Gln Glu Pro Arg Tyr
 210 215 220
 Leu Asn Leu Val Lys Tyr Phe Ile Glu Glu Arg Gly Ala Gln Pro His
 225 230 235 240
 Phe Tyr Asp Ile Glu Tyr Glu Lys His Gly Arg Thr Ser Tyr Trp Asn
 245 250 255
 Thr Tyr Gly Pro Ala Trp Met Val Lys Asp Lys Ala Tyr Ser Gln Ala
 260 265 270
 His Leu Pro Leu Ala Ala Gln Gln Thr Ala Ile Gly His Ala Val Arg
 275 280 285
 Phe Val Tyr Leu Met Ala Gly Met Ala His Leu Ala Arg Leu Ser Asn
 290 295 300
 Asp Glu Gly Lys Arg Gln Asp Cys Leu Arg Leu Trp Asn Asn Met Ala
 305 310 315 320
 Gln Arg Gln Leu Tyr Ile Thr Gly Gly Ile Gly Ser Gln Ser Ser Gly
 325 330 335
 Glu Ala Phe Ser Ser Asp Tyr Asp Leu Pro Asn Asp Thr Val Tyr Ala
 340 345 350
 Glu Ser Cys Ala Ser Ile Gly Leu Met Met Phe Ala Arg Arg Met Leu
 355 360 365
 Glu Met Glu Ala Asp Gly His Tyr Ala Asp Val Met Glu Arg Ala Leu
 370 375 380
 Tyr Asn Thr Val Leu Gly Gly Met Ala Leu Asp Gly Lys His Phe Phe
 385 390 395 400
 Tyr Val Asn Pro Leu Glu Val His Pro Lys Thr Leu Ser Phe Asn His
 405 410 415
 Ile Tyr Asp His Val Lys Pro Val Arg Gln Arg Trp Phe Gly Cys Ala
 420 425 430
 Cys Cys Pro Pro Asn Ile Ala Arg Val Leu Thr Ser Leu Gly His Tyr
 435 440 445

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Ile Tyr Thr Val Arg Pro Asp Ala Leu Leu Ile Asn Leu Tyr Val Gly
  450          455          460
Asn Asp Val Ala Ile Pro Val Gly Asp Asn Ile Leu Gln Leu Arg Ile
  465          470          475
Ser Gly Asn Tyr Pro Trp His Glu Gln Val Lys Ile Glu Ile Thr Ser
          485          490          495
Pro Val Pro Val Thr His Thr Leu Ala Leu Arg Leu Pro Asp Trp Cys
          500          505          510
Ala Glu Pro Ala Val Ser Leu Asn Gly Gln Ala Ile Thr Gly Glu Val
          515          520          525
Ser Arg Gly Tyr Leu Tyr Leu Asn Arg Ser Trp Gln Glu Gly Asp Thr
          530          535          540
Leu Thr Leu Thr Leu Pro Met Pro Val Arg Arg Val Tyr Gly Asn Pro
  545          550          555
Gln Val Arg Gln Gln Ala Gly Lys Val Ala Leu Gln Arg Gly Pro Leu
          565          570          575
Ile Tyr Cys Leu Glu Glu Ala Asp Asn Gly Ala Asn Leu His Asn Leu
          580          585          590
Ser Leu Arg Gln Asp Ser Ala Phe Arg Val Phe Glu Gly Lys Gly Ile
          595          600          605
Phe Ala His Lys Met Leu Ile Gln Ala Glu Gly Ile Gly Cys Gln Ala
          610          615          620
Lys Asp Thr Asp Ala Leu Trp Gln Tyr Asp His Ser Pro Val Glu Arg
          625          630          635
Gln Pro Arg Thr Leu Thr Phe Ile Pro Trp Phe Ser Trp Ala Asn Arg
          645          650          655
Gly Glu Gly Glu Met Arg Ile Trp Val Asp Glu Ser
          660          665

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<210> 9952

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 9952

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Met Asp Ser Cys Thr Ser Ala Arg Leu Gly Gln Val Gln Thr Ser Pro
  1          5          10          15
Trp Leu Asn Ala Asn Ser Ala Asn Pro Ser Ser Ala Leu Ser Lys Lys
          20          25          30
Ala Ser Ser Ser Ile Thr Ser Ala Lys Lys Met Phe Gly Asp Leu
          35          40          45
Pro Pro Ser Ser Ser Val Thr Gly Met Met Phe Trp Val Ala Tyr Cys
          50          55          60
Met Ile Cys Trp Pro Thr Ser Val Glu Pro Val Asn Ala Thr Leu Ala
          65          70          75          80
Ile Arg Phe Glu Val Ala Arg Tyr Ser Pro Ile Ser Pro Pro Ala Pro
          85          90          95
Leu Thr Thr Leu Met Thr Pro Gly Gly Asn Arg Ser Pro Ile Thr Ser
          100          105          110
Ile Ser Ser Ser Thr Glu Ser Gly Val Lys Arg Ala Gly Phe Ser Thr
          115          120          125
Thr Gln Leu Pro Ala Ala Ser Ala Gly Ala Ile Phe Gln Leu Ala Ile
          130          135          140
Ser Ser Gly Lys Phe His Gly Ile Ile Cys Pro Thr Thr Pro Ser Gly
          145          150          155          160
Ser Trp Lys

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<210> 9953

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 9953

Val Tyr Asn Lys Gly Ser Ser Gly Trp Trp Phe Ser Arg Gln Ser Val
 1 5 10 15
 Thr Gly Leu Arg Ala Val Ser Arg Ile Thr Val Leu Tyr Val Ser Phe
 20 25 30
 Leu Pro Pro Glu Pro Tyr Leu Ile Ala Gln Gly Leu Met Arg Asn Asp
 35 40 45
 Ala Met Gln Leu Phe Ile Gly Phe Asp Val Gly Gly Thr His Ile Lys
 50 55 60
 His Gly Val Ile Asn Glu Asn Gly Glu Glu Leu Thr Ser Asp Glu Tyr
 65 70 75 80
 Asp Thr Pro Asp Asp Glu Ser Thr Phe Lys Gln Lys Trp Lys Ala Val
 85 90 95
 Val Asp Lys Tyr Arg Gln Glu His Glu Ile Val Gly Ile Gly Val Ser
 100 105 110
 Phe Pro Gly His Ile Asn His His Thr Gly Glu Ala Ala Lys Ala Gly
 115 120 125
 Ala Leu Asp Tyr Leu Asp Gly Glu Asn Leu Cys Glu Leu Phe Ala Gln
 130 135 140
 Leu Thr Asp Leu Pro Val Thr Thr Glu Asn Asp Ala Asn Cys Ala Ala
 145 150 155 160
 Leu Gly Glu Arg Trp Gln Gly Ala Gly Lys Asp Tyr Glu His Phe Val
 165 170 175
 Cys Ile Thr Ile Gly Thr Gly Ile Gly Gly Gly Ile Val Met Glu Gly
 180 185 190
 Asp Leu Tyr Arg Gly Ser His Tyr Arg Ala Gly Glu Phe Gly Val Leu
 195 200 205
 Pro Val Gly Asn Asn Gly Glu Pro Met His Glu Val Ala Ser Ala Ser
 210 215 220
 Gly Leu Met Lys Ala Cys Arg Arg Ala Leu Ala Val Ser Glu Asp Glu
 225 230 235 240
 Met Pro Asp Gly Glu Glu Leu Phe Arg Arg Met Asp Ser Asp Val His
 245 250 255
 Leu Arg Glu Ala Ile Glu Glu Trp Ala His Phe Leu Ser Arg Gly Ile
 260 265 270
 Tyr Ser Val Ile Ser Met Phe Asp Pro Gln Ala Val Leu Ile Gly Gly
 275 280 285
 Gly Ile Ser Glu Gln Glu Lys Ile Tyr Leu Leu Leu Asp Lys Tyr Leu
 290 295 300
 Gln Arg Phe Glu Glu Trp Glu Ala Leu Arg Val Pro Ile Leu Pro Cys
 305 310 315 320
 Glu Leu Gly Asn Gln Ala Gly Arg Leu Gly Ala Val Trp Leu Ala Lys
 325 330 335
 Gln Lys Gln Ala Arg Ser Ala
 340

<210> 9954

<211> 419

<212> PRT

<213> Enterobacter cloacae

<400> 9954

Gln Ile Thr Val Leu Leu Pro Leu Pro Gly Glu Arg Ala Arg Val
 1 5 10 15
 Arg Gly Lys Arg Ser Ser Pro Gln Pro Ser Arg Val Lys Thr Leu Met
 20 25 30
 Lys Val Asn Thr Met Lys Ala Leu His Phe Gly Ala Gly Asn Ile Gly
 35 40 45
 Arg Gly Phe Ile Gly Lys Leu Leu Ala Asp Ala Gly Ile Thr Leu Thr

50	55	60
Phe Ala Asp Val Asn Gln Val Val Leu Asp Ala Leu Asn Ala Arg His		
65	70	75
Ser Tyr Gln Val His Val Val Gly Glu Asn Glu Gln Val Glu Thr Val		
	85	90
Ser Gly Val Asn Ala Val Ser Ser Ile Gly Asp Asp Val Ile Asp Leu		
	100	105
Ile Ala Ser Val Asp Leu Val Thr Thr Ala Val Gly Pro Val Val Leu		
	115	120
Glu Arg Ile Ala Pro Ala Val Ala Lys Gly Leu Ala Lys Arg Lys Ala		
130	135	140
Gln Gly Val Glu Thr Pro Leu Asn Ile Ile Ala Cys Glu Asn Met Val		
145	150	155
Arg Gly Thr Thr Gln Leu Lys Gly His Val Leu Thr Ala Val Ala Asp		
	165	170
Glu Asp Lys Ala Trp Val Glu Ala His Val Gly Phe Val Asp Ser Ala		
	180	185
Val Asp Arg Ile Val Pro Pro Ser Ala Ser Ala Thr Asn Asp Pro Leu		
	195	200
Glu Val Thr Val Glu Thr Phe Ser Glu Trp Ile Val Asp Lys Thr Gln		
210	215	220
Phe Lys Gly Ala Leu Pro Thr Ile Pro Gly Met Glu Leu Thr Asp Asn		
225	230	235
Leu Met Ala Phe Val Glu Arg Lys Leu Phe Thr Leu Asn Thr Gly His		
	245	250
Ala Ile Thr Ala Tyr Leu Gly Lys Leu Ala Gly His Gln Thr Ile Arg		
	260	265
Asp Ala Ile Leu Asp Glu Asn Ile Arg Ala Val Val Lys Gly Ala Met		
	275	280
Glu Glu Ser Gly Ala Val Leu Ile Lys Arg Tyr Gly Phe Asp Ala Asp		
290	295	300
Lys His Ala Ala Tyr Ile Gln Lys Ile Leu Gly Arg Phe Glu Asn Pro		
305	310	315
Tyr Leu Lys Asp Asp Val Glu Arg Val Gly Arg Gln Pro Leu Arg Lys		
	325	330
Leu Ser Ala Gly Asp Arg Leu Ile Lys Pro Leu Leu Gly Thr Leu Glu		
	340	345
Tyr Gly Leu Pro His Ala Asn Leu Val Lys Gly Ile Ala Ala Ala Met		
	355	360
His Tyr Arg Ser Glu Gln Asp Pro Gln Ala Ile Glu Leu Ala Gln Leu		
	370	375
Ile Asp Asp Lys Gly Ala Gln Ala Ala Leu Ala Gln Ile Ser Gly Leu		
385	390	395
Asp Ala Asn Ser Asp Val Val Ala Glu Ala Val Ser Ala Tyr Asn Ala		
	405	410
Thr Lys		415

<210> 9955

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 9955

Lys Lys Arg Phe Arg Ser Lys Pro Ala His Ile Gly Val Ser Phe Pro		
1	5	10
Val Asn Ser Pro Phe Ser Glu Leu Phe Val Met Lys Glu Val Glu Lys		
	20	25
Asn Glu Ile Lys Arg Leu Ser Asp Arg Leu Asp Met Ile Arg His Gln		
35	40	45
Met Ala Gly Leu Ser Leu Val Asp Ser Ala Glu Lys Tyr Ala Glu Leu		

50 55 60
 Glu Lys Glu Ser Val Lys Leu Glu Ala Glu Ile Glu Arg Leu Arg Glu
 65 70 75 80
 Val Lys Gly Gln Lys Leu Ser Lys Glu Ala Gln Lys Leu Met Asn Met
 85 90 95
 Pro His Arg Arg Ala Ile Thr Lys Lys Glu Gln Ala Asp Met Gly Lys
 100 105 110
 Leu Lys Lys Ser Val Arg Gly Leu Val Val Val His Pro Met Thr Glu
 115 120 125
 Leu Gly Arg Glu Met Gly Leu Lys Glu Met Thr Gly Phe Cys Lys Thr
 130 135 140
 Ala Phe
 145

<210> 9956

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 9956

Thr Gln Pro Asp Ile Tyr Leu His Gly Gly Arg Asp His His Ile Ala
 1 5 10 15
 Gly Leu Cys Leu Asn Leu Asp Asp Ser Met Ile Val Met Pro Arg Arg
 20 25 30
 Leu Ser Glu Glu Ile Ala Thr Arg Val Arg Ala Leu Ile Glu Gln
 35 40 45
 Gln Leu Glu Ala Gly Met Arg Leu Pro Ala Glu Arg Gln Leu Ala Ala
 50 55 60
 Gln Leu Gly Val Ser Arg Asn Ser Leu Arg Glu Ala Leu Ala Thr Leu
 65 70 75 80
 Val Ser Glu Gly Val Leu Leu Ser Arg Arg Gly Gly Gly Thr Phe Val
 85 90 95
 Arg Trp Gln His Asp Asp Trp Ser Glu Gln Asn Ile Val Gln Pro Leu
 100 105 110
 Lys Thr Leu Met Glu Asn Asp Pro Asp Tyr Ser Phe Asp Ile Leu Glu
 115 120 125
 Ala Arg His Ala Ile Glu Thr Ser Thr Ala Trp His Ala Ala Met Arg
 130 135 140
 Ala Thr Asp Ala Asp Lys Glu Lys Leu Lys Ala Cys Phe Glu Ala Thr
 145 150 155 160
 Gln Ser Ser Asp Pro Asp Ile Ala Ser Gln Ala Asp Val Arg Phe His
 165 170 175
 Leu Ala Ile Ala Glu Ala Ser His Asn Val Val Leu Leu Gln Thr Met
 180 185 190
 Arg Gly Phe Phe Asp Leu Leu Gln Ser Ser Val Lys Gln Ser Arg Gln
 195 200 205
 Arg Met Tyr Leu Val Pro Pro Val Phe Ala Gln Leu Thr Glu Gln His
 210 215 220
 Glu Ala Val Leu Asn Ala Ile Leu Ala Gly Asp Ala Glu Ala Ala Arg
 225 230 235 240
 Lys Ala Met Met Ala His Leu Gly Phe Val His Thr Thr Ile Lys Arg
 245 250 255
 Phe Asp Glu Asp Gln Ala Arg Gln Ala Arg Ile Thr Arg Leu Pro Glu
 260 265 270
 Glu Ser Asp Ile Ser Arg Glu Asn Lys Ala
 275 280

<210> 9957

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 9957

Ile Ser Met Leu Glu Leu Ser Ile Ala Leu Pro Ile Arg Val Gln Asn
 1 5 10 15
 Gly Gly Leu Phe Ile Ser Arg Gly Val Gly Arg His Pro Ala Arg Lys
 20 25 30
 Leu Ser Ser Trp Glu Ile Ile Phe Val Glu Lys Gly Thr Leu Thr Ile
 35 40 45
 Gln Glu Glu Asn Thr Leu Phe Glu Val Asn Ala Gly Glu Ser Leu Leu
 50 55 60
 Leu Trp Pro Lys Arg Arg His Val Gly Val Glu Asp Phe Pro Gly Asp
 65 70 75 80
 Leu Lys Phe Tyr Trp Leu His Phe Glu Val Asp Glu Arg Leu Pro Val
 85 90 95
 Leu Pro Gly Ala Thr Pro Leu Ser Ile Glu Gln His Cys Ser Val Arg
 100 105 110
 Asp Pro Gln Tyr Val Ile Ala Leu Phe Arg Gln Phe Leu Ser Glu Gln
 115 120 125
 Glu Lys Leu Gln Arg Ser Gln Ala Leu Glu Ile Ile Leu Leu Leu Ile
 130 135 140
 Leu Gln Gln Ile Ser Leu Ser Pro Gly Tyr Glu Asp Lys Ala Asp Asp
 145 150 155 160
 Ala Gly Ala Ala Met Ala Trp Lys Ala Lys Gln Leu Ile Arg Thr His
 165 170 175
 Phe His Leu Pro Leu Ser Thr Ser Gln Leu Ala Lys Glu Leu His Cys
 180 185 190
 Asn Ala Asp Tyr Leu Gly Arg Val Phe Arg Arg Thr Phe His Leu Thr
 195 200 205
 Leu Thr Glu Ala Ile His Arg Gln Arg Val Arg Ala Ala Glu Lys Leu
 210 215 220
 Leu Leu Asn Asp Ala Ala Ser Leu Thr Glu Val Ala Ala Arg Cys Gly
 225 230 235 240
 Phe Asn Asp Val Gly Tyr Phe Arg Gln Ile Phe Ser Lys His Thr Gly
 245 250 255
 Leu Thr Pro Ala Val Trp Lys Arg Arg Tyr Cys Lys Glu His Ile Asn
 260 265 270
 Ser Gly

275

<210> 9958

<211> 89

<212> PRT

<213> *Enterobacter cloacae*

<400> 9958

Asn Gly Leu Ile Thr Ser Phe Asp Arg Arg Ser Arg Ser Leu Arg Leu
 1 5 10 15
 Ile Ile Ser His Ile Ile Ala Gly Pro Met Pro Pro Gly Glu Arg Leu
 20 25 30
 Ile Met Pro Phe Met Leu Val Met Ala Val Met Ile Phe Ser Leu Ala
 35 40 45
 Met Ile Met Pro Gln Arg Leu Pro Gly Arg Pro Ser Leu Glu Arg Leu
 50 55 60
 Met Gln Arg Met Ile Phe Gly Phe His Ser Gly Arg Ala Ser Leu Lys
 65 70 75 80
 Met Ile Pro Gly Asn Gly Thr Pro
 85

<210> 9959

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 9959

```

Asp Ser Ala Leu Lys Phe Leu Lys Lys Ile Arg Cys Trp Asn Val Tyr
1      5      10      15
Ile Arg Pro Gly Asp Leu Met Ile Ser Thr Pro Ile Arg Arg Tyr Gly
      20      25      30
Ala Ala Ile Leu Met Leu Leu Thr Met Ala Phe Ser Gly Glu Val Leu
      35      40      45
Ala Lys Thr His Thr Asp Thr Thr Ser Lys Lys Ala His Val Ile Lys
      50      55      60
Thr Thr Ser Ser Lys Val Ser Ser Lys Gln Glu Tyr Ser Arg Asn Ser
      65      70      75      80
Ala Lys Ser Ser Ser Leu Pro Asp Leu Arg Lys Tyr Pro Ser Gly Thr
      85      90      95
Pro Arg Lys Lys Ala Phe Leu Arg Thr Val Met Pro Tyr Ile Lys Ser
      100      105      110
Gln Asn Ala Ala Ile Thr Ala Asp Arg Asn Trp Leu Ile Ser Lys Gln
      115      120      125
Tyr Asp Ser Arg Trp Ser Pro Ser Glu Arg Thr Arg Leu Lys Asp Ile
      130      135      140
Ala Lys Arg Tyr Lys Val Lys Trp Ser Gly Asn Thr Arg Arg Val Pro
      145      150      155      160
Trp Asn Ser Leu Leu Glu Arg Val Asp Ile Ile Pro Gly Ser Met Val
      165      170      175
Ala Thr Met Ala Ala Ala Glu Ser Gly Trp Gly Thr Ser Lys Leu Ala
      180      185      190
Arg Asn Asn Asn Asn Leu Phe Gly Met Lys Cys Val Lys Gly Arg Cys
      195      200      205
Thr Asn Ala Pro Gly Lys Val Lys Gly Tyr Ser Gln Phe Glu Ser Val
      210      215      220
Lys Asp Ser Val Asn Ala Tyr Val Val Asn Leu Asn Thr His Pro Ala
      225      230      235      240
Tyr Ser Ser Phe Arg Lys Ser Arg Ala Gln Leu Arg Lys Ala Asp Gln
      245      250      255
Glu Val Thr Ala Thr Ala Met Ile His Lys Leu Lys Gly Tyr Ser Thr
      260      265      270
Gln Gly Gln Arg Tyr Asn Asn Tyr Leu Phe Ser Met Tyr Gln Asp Asn
      275      280      285
Gln Arg Leu Ile Ala Ala His Met
      290      295

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<210> 9960

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 9960

```

Glu His Asp Ala Arg Phe Glu Ala Gly Leu Met Glu Ser Trp Leu Ile
1      5      10      15
Pro Ala Glu Pro Val Thr Phe Val Glu Ile Lys Lys Ser Arg Phe
      20      25      30
Ile Thr Leu Leu Ala His Thr Asp Gly Val Glu Ala Ala Lys Ala Phe
      35      40      45
Val Glu Ser Val Arg Ala Gln His Pro Asp Ala Arg His His Cys Val
      50      55      60
Ala Trp Val Ala Gly Pro Pro Asp Asp Ser Gln Gln Leu Gly Phe Ser
      65      70      75      80
Asp Asp Gly Glu Pro Ala Gly Thr Ala Gly Lys Pro Met Leu Ser Gln
      85      90      95
Leu Met Gly Ser Gly Val Gly Glu Ile Thr Ala Val Val Val Arg Tyr

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          100          105          110
Tyr Gly Gly Ile Leu Leu Gly Thr Gly Gly Leu Val Lys Ala Tyr Gly
    115          120          125
Gly Gly Val Gln Gln Ala Leu Asn Leu Leu Ile Thr Thr Arg Lys Thr
    130          135          140
Pro Leu Thr Glu Tyr Thr Leu Leu Cys Asp Tyr Ala Gln Leu Ser Gly
    145          150          155          160
Ile Glu Ala Leu Leu Lys Gln Phe Asn Gly Val Ile Ala Gln Ser Asp
    165          170          175
Tyr Gln Ala Met Val Gln Leu Arg Val Ala Leu Pro Gln Ala Glu Leu
    180          185          190
Ala Ala Phe Ser Ala Lys Leu Ala Asp Phe Ser Arg Gly Ser Leu Gln
    195          200          205
Leu Leu Pro Ile Glu Glu
    210          215

```

<210> 9961

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 9961

```

Ser Pro Ile Cys Cys Leu Gly Val Leu Arg Ser Leu Arg Cys Trp Cys
  1          5          10          15
Cys Leu Pro Gln His Ser Gly Val Ser Lys Glu Thr Leu Val Lys Thr
    20          25          30
Leu Ile Leu Phe Ser Thr Arg Asp Gly Gln Thr Arg Glu Ile Ala Ser
    35          40          45
Tyr Leu Ala Ser Glu Leu Lys Glu Leu Gly Ile Tyr Ser Asp Val Val
    50          55          60
Asn Leu Asn Arg Thr Glu Gln Ile Ala Trp Gln Asp Tyr Asp Arg Val
    65          70          75          80
Val Ile Gly Ala Ser Ile Arg Tyr Gly His Phe His Pro Ala Leu Asp
    85          90          95
Arg Phe Val Lys Lys His Thr Ala Glu Leu Ala Gln Leu Pro Gly Ala
    100          105          110
Phe Tyr Ser Val Asn Leu Val Ala Arg Lys Ala Glu Lys Arg Thr Pro
    115          120          125
Gln Thr Asn Ser Tyr Thr Arg Lys Phe Leu Leu Ser Ser Pro Trp Gln
    130          135          140
Pro Asp Ile Cys Ser Val Phe Ala Gly Ala Leu Arg Tyr Pro Arg Tyr
    145          150          155          160
Arg Trp Tyr Asp Arg Phe Met Ile Arg Leu Ile Met Lys Met Thr Gly
    165          170          175
Gly Glu Thr Asp Thr Arg Lys Glu Val Val Tyr Thr Asp Trp Ala Gln
    180          185          190
Val Ala Ser Phe Ala Arg Glu Ile Ala His Leu Thr Asp Asp Ala Arg
    195          200          205
Val Val Phe Thr Arg Val Pro Val Pro Arg Tyr Val Lys
    210          215          220

```

<210> 9962

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 9962

```

Phe Thr Glu Gly Lys Val Phe Gln Met Lys Ile Lys Asn Val Ala Leu
  1          5          10          15
Ala Ile Ala Ala Ala Gly Leu Leu Leu Ser Ser Gln Ser Val Leu Ala
    20          25          30

```

Ser Ser Asp Ser Gly Val Asn Ala Ser Leu Asp Thr Gly Ala Gly Ser
 35 40 45
 Gln Ser Thr Gly Gly Val Ile Asn Phe Thr Gly Lys Ile Thr Leu Ile
 50 55 60
 Ser Cys Asp Ile Thr Pro Ala Ser Lys Asn Lys Thr Val Asp Leu Gly
 65 70 75 80
 Ala Trp Ala Lys Ser Tyr Phe Asp Asp His Asn Glu Thr Thr Pro Arg
 85 90 95
 Glu Phe Lys Ile Asn Val Glu Asn Cys Pro Glu Thr Val Glu Ser Val
 100 105 110
 Ala Val Leu Phe Asp Gly Thr Lys Asp Thr Val Asn Asp Thr Leu Leu
 115 120 125
 Gln Val Thr Pro Cys Glu Gly Met Ala Thr Gly Val Arg Val Lys Leu
 130 135 140
 Tyr Asn Ser Asp Arg Ser Thr Ala Ile Lys Pro Gly Thr Val Ser Glu
 145 150 155 160
 Thr Thr Ala Pro Asp Asp Glu Gly Asn Ala Glu Leu Thr Phe Tyr Ala
 165 170 175
 Ala Leu Asp Lys Asp Gly Thr Glu Ile Tyr Ala Gly Asp Val Asn Ala
 180 185 190
 Val Ser Asn Phe Leu Met Val Tyr Asn
 195 200

<210> 9963

<211> 235

<212> PRT

<213> Enterobacter cloacae

<400> 9963

Phe His Cys Gln Pro Pro Glu Ile Ile Met Met Lys Arg Leu Ser
 1 5 10 15
 Tyr Ile Met Leu Thr Ala Leu Met Val Ser Ser Ala Ser Val Ser Ala
 20 25 30
 Gly Val Val Met Gly Gly Thr Arg Ile Val Tyr Pro Gln His Ser Lys
 35 40 45
 Glu Val Ala Phe Ser Val Ser Asn Met Glu Ser Ala Val Pro Tyr Leu
 50 55 60
 Ile Gln Ser Trp Val Glu Gly Asp Gly Gln Gly Lys Asn Asn Ala Ala
 65 70 75 80
 Pro Phe Ile Val Thr Pro Pro Leu Phe Arg Leu Asp Pro Glu Gln Thr
 85 90 95
 Asn Thr Leu Arg Ile Gln Tyr Thr Gly Ala Pro Leu Pro Thr Asp Arg
 100 105 110
 Glu Ser Val Phe Trp Leu Asp Ile Lys Ala Ile Ala Pro Lys Pro Lys
 115 120 125
 Glu Ser Ser Asn Glu Leu Gln Val Asn Val Lys Ser Lys Phe Lys Ile
 130 135 140
 Phe Tyr Arg Pro Asp Asn Leu Lys Gly Asp Ala Ala Thr Ala Trp Gln
 145 150 155 160
 Lys Ile Thr Phe Ser Arg Thr Gly Lys Glu Leu Lys Ala Ala Asn Pro
 165 170 175
 Thr Pro Tyr Tyr Val Ser Phe Tyr Arg Leu Thr Val Gly Gly His Lys
 180 185 190
 Ile Glu Gln Pro Gly Met Ile Gly Pro Gly Glu Thr Arg Glu Trp Pro
 195 200 205
 Val Ser Ala Ser Gly Gly Val Ser Trp Ser Ala Ile Asn Asp Phe Gly
 210 215 220
 Ala Ile Thr Ala Thr His Thr Gln Pro Leu
 225 230 235

<210> 9964

<211> 204
 <212> PRT
 <213> Enterobacter cloacae

<400> 9964

```

Ala Met Lys Leu Ile Gly Ser Tyr Thr Ser Pro Phe Val Arg Lys Ile
1      5      10      15
Ser Ile Leu Leu Leu Glu Lys Gly Ile Glu Phe Glu Phe Val Asn Glu
20      25      30
Gln Pro Tyr Asn Ala Glu Asn Gly Val Ala Gln Tyr Asn Pro Leu Gly
35      40      45
Lys Val Pro Ala Leu Val Thr Asp Glu Gly Asp Tyr Trp Phe Asp Ser
50      55      60
Pro Ile Ile Ala Glu Tyr Ile Glu Leu Leu Gly Val Ala Pro Ala Met
65      70      75      80
Leu Pro Ala Asp Pro Lys Ala Ala Leu Ala Met Lys Gln Ile Glu Ala
85      90      95
Leu Ala Asp Gly Ile Met Asp Ala Ala Leu Thr Ser Val Arg Glu Gln
100     105     110
Ala Arg Pro Ala Ala Gln Gln Ser Glu Asn Glu Leu Leu Arg Gln Arg
115     120     125
Glu Lys Ile Ser Arg Ser Leu Asp Met Cys Glu Gln Leu Ile Arg Asp
130     135     140
Gly Lys Ile Gln Ser Asp Ser Leu Asn Leu Ala Thr Ile Ala Ile Ala
145     150     155     160
Cys Ala Ile Gly Tyr Leu Asn Phe Arg Arg Val Ser Pro Gly Trp Cys
165     170     175
Val Asp Arg Pro Leu Leu Val Lys Leu Ala Glu Thr Leu Phe Gln Arg
180     185     190
Glu Ser Phe Ala Arg Thr Glu Pro Pro Lys Ala
195     200

```

<210> 9965
 <211> 622
 <212> PRT
 <213> Enterobacter cloacae

<400> 9965

```

Ser Ala Val Ser Gly Asp Asp Val Glu Met Ile Ile Ala Thr Ala Gly
1      5      10      15
His Val Asp His Gly Lys Thr Thr Leu Leu Gln Ala Ile Thr Gly Val
20      25      30
Asn Ala Asp Arg Leu Pro Glu Glu Lys Lys Arg Gly Met Thr Ile Asp
35      40      45
Leu Gly Tyr Ala Tyr Trp Pro Gln Pro Asp Gly Arg Val Leu Gly Phe
50      55      60
Ile Asp Val Pro Gly His Glu Lys Phe Leu Ser Asn Met Leu Ala Gly
65      70      75      80
Val Gly Gly Ile Asp His Ala Leu Leu Val Val Ala Cys Asp Asp Gly
85      90      95
Val Met Ala Gln Thr Arg Glu His Leu Ala Ile Leu Gln Leu Thr Gly
100     105     110
Asn Pro Gln Leu Thr Val Ala Leu Thr Lys Ala Asp Arg Val Asp Glu
115     120     125
Ala Arg Ile Asp Glu Val Arg Gln Glu Val Leu Ala Ala Leu Ser Glu
130     135     140
Tyr Gly Phe Lys Asp Val Ala Leu Phe Val Thr Val Ala Thr Glu Gly
145     150     155     160
Arg Gly Ile Asp Ala Leu Arg Asn His Leu Gln Gln Ile Pro Ser Arg
165     170     175
Glu Gln Ala Ser His His Arg Phe Arg Leu Ala Ile Asp Arg Ala Phe

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<210> 9966
<211> 293
<212> PRT
<213> Enterobacter cloacae
```

<400> 9966

```

Asp Arg Glu Leu Lys His Thr Leu Arg Tyr His Gln Gly Ala Ile Asn
1      5      10      15
Arg Ser Tyr Leu Met Ser Ile Lys Glu Ser Glu Met Thr Gln Glu Lys
      20      25      30
Glu Arg Pro Ala Gly Ser Gln Ser Leu Phe Arg Gly Leu Met Leu Ile
      35      40      45
Glu Ile Leu Ser Asn Tyr Pro Asn Gly Cys Pro Leu Ala His Leu Ser
      50      55      60
Glu Leu Ala Gly Leu Asn Lys Ser Thr Val His Arg Leu Leu Gln Gly
65      70      75      80
Leu Gln Ser Cys Gly Tyr Val Thr Pro Ala Pro Ala Ala Gly Ser Tyr
      85      90      95
Arg Leu Thr Thr Lys Phe Ile Ala Val Gly Gln Lys Ala Leu Ser Ser
      100     105     110
Leu Asn Ile Ile His Val Ala Ala Pro His Leu Glu Ala Leu Asn Ile
      115     120     125
Ala Thr Gly Glu Thr Val Asn Phe Ser Ser Arg Glu Asp Asp His Ala
      130     135     140
Ile Leu Ile Tyr Lys Leu Glu Pro Thr Thr Gly Met Leu Arg Thr Arg
145     150     155     160
Ala Tyr Ile Gly Gln His Met Pro Leu Tyr Cys Ser Ala Met Gly Lys
      165     170     175
Ile Tyr Met Ala Phe Gly His Gln Asp Tyr Val Ala Ser Tyr Trp Glu
      180     185     190
Ser His Gln Glu Gln Ile Gln Pro Leu Thr Arg Asn Thr Ile Thr Glu
      195     200     205
Leu Ser Ala Met Tyr Asp Glu Leu Ala Glu Ile Arg Asp His Ser Met
      210     215     220
Ala Met Asp Lys Glu Glu Asn Glu Leu Gly Val Ser Cys Ile Ala Val
225     230     235     240
Pro Val Phe Asp Ile His Gly Arg Val Pro Tyr Ala Ile Ser Ile Ser
      245     250     255
Leu Ser Thr Ser Arg Met Lys Gln Val Gly Glu Lys Asn Leu Leu Lys
      260     265     270
Pro Leu Arg Asp Thr Ala Glu Ala Ile Ser Lys Glu Leu Gly Phe Asn
      275     280     285
Val Arg Glu Ala
290

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<210> 9967

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 9967

```

Leu Met Asn Gln Phe Ile Leu Ala Asp Pro Glu Lys Cys Ile Gly Cys
1      5      10      15
Arg Thr Cys Glu Val Ala Cys Met Met Ser His Gln Ser Ser Ala Thr
      20      25      30
Pro Val Ala Phe Thr Ser Arg Ile Arg Val Val Lys Gly Glu Thr Phe
      35      40      45
Thr Thr Ala Val Gly Cys His Gln Cys Glu Asp Ala Pro Cys Ala Asn
      50      55      60
Val Cys Pro Thr Gly Ala Ile His Arg Ala Ala Gly Ala Trp Leu Val
65      70      75      80
Lys Gln Ser Arg Cys Ile Gly Cys Lys Ser Cys Met Val Ala Cys Pro
      85      90      95
Phe Gly Ala Met Gln Val Arg Val Val Glu Asp Arg Val Gln Ala Leu
      100     105     110
Lys Cys Asp Leu Cys Ala His Arg Glu Gly Gly Pro Ala Cys Val Glu

```

115 120 125
 Ala Cys Pro Thr His Ala Leu Arg Cys Ile Asp Pro Ala Ser Leu Arg
 130 135 140
 Ala Glu Arg Leu Arg Asn Met Ala
 145 150

<210> 9968

<211> 506

<212> PRT

<213> Enterobacter cloacae

<400> 9968

Ile Thr Ala Phe Met Pro Gly Lys Arg Cys Ala Thr Gly His Phe Cys
 1 5 10 15
 Gln Arg Ser His His Met Tyr Ile Gly Ile Asp Leu Gly Thr Ser Gly
 20 25 30
 Val Lys Ala Ile Leu Leu Ser Glu Gln Gly Asp Val Leu Ala Thr Gln
 35 40 45
 Thr Glu Lys Leu Gln Val Ser Arg Pro His Pro Leu Trp Ser Glu Gln
 50 55 60
 Asp Pro Glu Gln Trp Trp Gln Ala Thr Asp Arg Ala Met Thr Ala Leu
 65 70 75 80
 Gly Glu Gln His Ser Leu Arg Asp Val Lys Ala Leu Gly Ile Ala Gly
 85 90 95
 Gln Met His Gly Ala Thr Leu Leu Asp Ser Gln His Arg Val Leu Arg
 100 105 110
 Pro Ala Ile Leu Trp Asn Asp Gly Arg Cys Ala Glu Glu Cys Ala Ile
 115 120 125
 Leu Glu Glu Arg Val Pro Ala Ser Arg Glu Ile Thr Gly Asn Leu Met
 130 135 140
 Met Pro Gly Phe Thr Ala Pro Lys Leu Leu Trp Val Gln Arg His Glu
 145 150 155 160
 Pro Asp Ile Phe Arg Gln Val Ala Lys Val Leu Leu Pro Lys Asp Tyr
 165 170 175
 Leu Arg Phe Arg Met Thr Gly Asp Phe Ala Ser Asp Met Ser Asp Ala
 180 185 190
 Ala Gly Thr Met Trp Leu Asp Val Ala Lys Arg Asp Trp Ser Glu Ala
 195 200 205
 Met Leu Asp Ala Cys Gln Leu Thr Arg Asp His Met Pro Ala Leu Phe
 210 215 220
 Glu Gly Ser Glu Ile Thr Gly Ala Leu Gln Pro Ser Val Ala Glu Arg
 225 230 235
 Trp Asn Met Pro Ala Val Pro Val Ile Ala Gly Gly Asp Asn Ala
 245 250 255
 Ala Gly Ala Val Gly Val Gly Met Val Glu Ala Gly Gln Ala Met Leu
 260 265 270
 Ser Leu Gly Thr Ser Gly Val Tyr Phe Ala Val Ser Asp Gly Tyr Arg
 275 280 285
 Ser Asn Pro Gly Ser Ala Val His Ser Phe Cys His Ala Leu Pro Gly
 290 295 300
 Lys Trp His Leu Met Ser Val Met Leu Ser Ala Ala Ser Cys Leu Asp
 305 310 315
 Trp Ala Ala Lys Leu Thr Gly Met Ala Asp Val Pro Ala Leu Ile Ala
 325 330 335
 Ala Ala Gln Gln Ala Asp Asp Asn Ala Gly Ala Val Trp Phe Leu Pro
 340 345 350
 Tyr Leu Ser Gly Glu Arg Thr Pro His Asn Asn Pro Glu Ala Lys Gly
 355 360 365
 Val Phe Phe Gly Leu Thr His Gln His Gly Pro Ala Glu Leu Ala Arg
 370 375 380
 Ala Val Leu Glu Gly Val Gly Tyr Ala Leu Ala Asp Gly Met Asp Val

```

385          390          395          400
Val His Asp Cys Gly Leu Thr Pro Ser Ser Ile Thr Leu Ile Gly Gly
          405          410          415
Gly Ala Arg Ser Ser Tyr Trp Arg Gln Met Leu Ser Asp Ile Ser Gly
          420          425          430
Leu Gln Leu Asp Tyr Arg Thr Gly Gly Asp Val Gly Pro Ala Leu Gly
          435          440          445
Ala Ala Arg Leu Ala Gln Ile Ala Leu Asn Pro Asp Lys Pro Leu His
          450          455          460
Gln Leu Leu Pro Gln Leu Ser Leu Glu Gln Gln His Arg Pro Asp Ala
465          470          475          480
Lys Asn His Ala Arg Tyr Ala Glu Arg Arg Asp Val Phe Arg Lys Ile
          485          490          495
Tyr Arg Gln Leu Leu Pro Leu Met Ser
          500          505

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<210> 9969

<211> 313

<212> PRT

<213> *Enterobacter cloacae*

<400> 9969

```

Asn His Thr Tyr Pro Ala Arg Asn Thr Met Gln Lys Phe Asp Thr Lys
1          5          10          15
Thr Phe Gln Gly Leu Ile Leu Thr Leu Gln Asp Tyr Trp Ala Ser Gln
          20          25          30
Gly Cys Thr Ile Val Gln Pro Leu Asp Met Glu Val Gly Ala Gly Thr
          35          40          45
Ser His Pro Met Thr Ser Leu Arg Ala Leu Gly Pro Glu Pro Met Ala
50          55          60
Thr Ala Tyr Val Gln Pro Ser Arg Arg Pro Thr Asp Gly Arg Tyr Gly
65          70          75          80
Glu Asn Pro Asn Arg Leu Gln His Tyr Tyr Gln Phe Gln Val Val Ile
          85          90          95
Lys Pro Ser Pro Asp Asn Ile Gln Glu Leu Tyr Leu Gly Ser Leu Lys
          100          105          110
Glu Leu Gly Met Asp Pro Thr Ile His Asp Ile Arg Phe Val Glu Asp
          115          120          125
Asn Trp Glu Asn Pro Thr Leu Gly Ala Trp Gly Leu Gly Trp Glu Val
130          135          140
Trp Leu Asn Gly Met Glu Val Thr Gln Phe Thr Tyr Phe Gln Gln Val
145          150          155          160
Gly Gly Leu Glu Cys Lys Pro Ile Thr Gly Glu Ile Thr Tyr Gly Leu
          165          170          175
Glu Arg Leu Ala Met Tyr Ile Gln Gly Val Asp Ser Val Tyr Asp Leu
          180          185          190
Val Trp Ser Asp Gly Pro Leu Gly Lys Thr Thr Tyr Gly Asp Val Phe
          195          200          205
His Gln Asn Glu Val Glu Gln Ser Thr Tyr Asn Phe Glu Tyr Ala Asp
210          215          220
Val Asp Phe Leu Phe Thr Cys Phe Glu Gln Tyr Glu Lys Glu Ala Gln
225          230          235          240
Gln Leu Leu Ala Leu Glu Thr Pro Leu Pro Leu Pro Ala Tyr Glu Arg
          245          250          255
Ile Leu Lys Ala Ala His Ser Phe Asn Leu Leu Asp Ala Arg Lys Ala
          260          265          270
Ile Ser Val Thr Glu Arg Gln Arg Tyr Ile Leu Arg Ile Arg Thr Leu
          275          280          285
Thr Lys Ala Val Ala Glu Ala Tyr Tyr Ala Ser Arg Glu Ala Leu Gly
290          295          300
Phe Pro Met Cys Asn Arg Asn Lys

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305

310

<210> 9970

<211> 693

<212> PRT

<213> Enterobacter cloacae

<400> 9970

Glu Ala Ala Met Ser Glu Lys Thr Phe Leu Val Glu Ile Gly Thr Glu
 1 5 10 15
 Glu Leu Pro Pro Lys Ala Leu Arg Ser Leu Ala Glu Ser Phe Ala Ala
 20 25 30
 Asn Val Thr Ala Glu Leu Asp Asn Ala Gly Leu Ala His Gly Lys Ile
 35 40 45
 Glu Trp Phe Ala Ala Pro Arg Arg Leu Ala Leu Lys Val Ala Asn Leu
 50 55 60
 Ala Ala Ser Gln Pro Asp Arg Glu Val Glu Lys Arg Gly Pro Ala Ile
 65 70 75 80
 Ala Gln Ala Phe Asp Ala Glu Gly Lys Pro Ser Lys Ala Ala Glu Gly
 85 90 95
 Trp Ala Arg Gly Cys Gly Ile Thr Val Asp Gln Ala Glu Arg Leu Thr
 100 105 110
 Thr Asp Lys Gly Glu Trp Leu Leu Tyr Arg Ala His Val Lys Gly Glu
 115 120 125
 Ser Ala Glu Ala Leu Leu Pro Asp Met Ile Ala Thr Ser Leu Ala Lys
 130 135 140
 Leu Pro Ile Pro Lys Leu Met Arg Trp Gly Ala Ser Asp Val His Phe
 145 150 155 160
 Val Arg Pro Val His Thr Val Thr Leu Leu Leu Gly Asp Thr Val Ile
 165 170 175
 Pro Ala Thr Ile Leu Gly Val Ala Ser Asp Arg Val Ile Arg Gly His
 180 185 190
 Arg Phe Met Gly Glu Pro Glu Phe Thr Ile Asp Asn Ala Asp Gln Tyr
 195 200 205
 Pro Gln Ile Leu Leu Glu Arg Gly Lys Val Ile Ala Asp Tyr Glu Gln
 210 215 220
 Arg Lys Ala Lys Ile Lys Ala Asp Ala Glu Glu Ala Ala Arg Lys Ile
 225 230 235 240
 Gly Gly Asn Ala Asp Leu Ser Asp Ser Leu Leu Glu Glu Val Thr Ser
 245 250 255
 Leu Val Glu Trp Pro Val Val Leu Thr Ala Lys Phe Glu Glu Lys Phe
 260 265 270
 Leu Ala Val Pro Ala Glu Ala Leu Val Tyr Thr Met Lys Gly Asp Gln
 275 280 285
 Lys Tyr Phe Pro Val Tyr Ala Asn Asp Gly Lys Leu Leu Pro Asn Phe
 290 295 300
 Ile Phe Val Ala Asn Ile Glu Ser Lys Asp Pro Ser Gln Ile Ile Ser
 305 310 315 320
 Gly Asn Glu Lys Val Val Arg Pro Arg Leu Ala Asp Ala Glu Phe Phe
 325 330 335
 Phe Asn Thr Asp Arg Lys Lys Arg Leu Glu Asp Asn Leu Pro Arg Leu
 340 345 350
 Gln Thr Val Leu Phe Gln Gln Gln Leu Gly Thr Leu Arg Asp Lys Thr
 355 360 365
 Asp Arg Ile Ala Glu Leu Ser Gly Trp Ile Ala Arg Glu Ile Gly Ala
 370 375 380
 Asp Val Asn His Ala Thr Arg Ala Gly Leu Leu Ser Lys Cys Asp Leu
 385 390 395 400
 Met Thr Asn Met Val Phe Glu Phe Thr Asp Thr Gln Gly Val Met Gly
 405 410 415
 Met His Tyr Ala Arg His Asp Gly Glu Ala Glu Asp Val Ala Val Ala

420 425 430
 Leu Asn Glu Gln Tyr Gln Pro Arg Phe Ala Gly Asp Asp Leu Pro Ser
 435 440 445
 Asn Pro Val Ala Cys Ala Val Ala Ile Ala Asp Lys Met Asp Thr Leu
 450 455 460
 Ala Gly Ile Phe Gly Ile Gly Gln His Pro Lys Gly Asp Lys Asp Pro
 465 470 475 480
 Phe Ala Leu Arg Arg Ala Ala Leu Gly Val Leu Arg Ile Ile Val Glu
 485 490 495
 Lys Asn Leu Asn Leu Asp Leu Gln Thr Leu Thr Glu Glu Ala Val Arg
 500 505 510
 Leu Tyr Gly Asp Lys Leu Thr Asn Ala Lys Val Val Asp Asp Val Ile
 515 520 525
 Asp Phe Met Leu Gly Arg Phe Arg Ala Trp Tyr Gln Asp Glu Gly Tyr
 530 535 540
 Ser Val Asp Thr Ile Gln Ala Val Leu Ala Arg Arg Pro Thr Arg Pro
 545 550 555 560
 Ala Asp Phe Asp Ala Arg Met Lys Ala Val Ser His Phe Arg Thr Leu
 565 570 575
 Glu Ala Ala Ser Ala Leu Ala Ala Asn Lys Arg Val Ser Asn Ile
 580 585 590
 Leu Ala Lys Ser Asp Glu Thr Leu Asn Asp Arg Val Asn Ala Ala Thr
 595 600 605
 Leu Lys Glu Pro Glu Glu Ile Ser Leu Ala Met Gln Val Val Val Leu
 610 615 620
 Arg Asp Lys Leu Glu Pro Tyr Phe Ala Glu Gly Arg Tyr Gln Glu Ala
 625 630 635 640
 Leu Val Glu Leu Ala Glu Leu Arg Asp Val Ile Asp Ala Phe Phe Glu
 645 650 655
 Lys Val Met Val Asn Val Glu Asp Lys Glu Leu Arg Ile Asn Arg Leu
 660 665 670
 Ser Met Leu Glu Lys Leu Arg Glu Leu Phe Leu Arg Val Ala Asp Ile
 675 680 685
 Ser Leu Leu Gln
 690

<210> 9971

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 9971

Leu Glu Val Lys Lys Thr Lys Gly Arg Met Met Asp Ser Leu Ala Ser
 1 5 10 15
 Leu Tyr Lys Asn His Ile Val Thr Leu Gln Glu Arg Thr Arg Asp Val
 20 25 30
 Leu Ala Arg Phe Lys Leu Asp Ala Leu Ile His Ser Gly Glu Leu
 35 40 45
 Met Asn Thr Phe Leu Asp Asp His Ala Tyr Pro Phe Lys Val Asn Pro
 50 55 60
 Gln Phe Lys Ala Trp Val Pro Val Thr Gln Val Pro Asn Cys Trp Leu
 65 70 75 80
 Leu Val Asp Gly Val Asn Lys Pro Lys Leu Trp Phe Tyr Leu Pro Val
 85 90 95
 Asp Tyr Trp His Asn Val Glu Pro Leu Pro Thr Ser Phe Trp Thr Glu
 100 105 110
 Glu Ile Asp Val Ile Ala Leu Pro Lys Ala Asp Gly Ile Gly Ser Gln
 115 120 125
 Leu Pro Ala Ala Arg Gly Asn Ile Gly Tyr Ile Gly Pro Val Pro Glu
 130 135 140
 Arg Ala Leu Gly Leu Asp Ile Pro Ala Asp Lys Leu Asn Pro Lys Gly

145 150 155 160
 Val Leu Asp Tyr Leu His Tyr Tyr Arg Ala Tyr Lys Thr Asp Tyr Glu
 165 170 175
 Leu Tyr Cys Met Arg Glu Ala Gln Lys Thr Ala Val Asn Gly His Arg
 180 185 190
 Ala Ala His Glu Ala Phe Gln Ser Gly Met Ser Glu Phe Asp Ile Asn
 195 200 205
 Gln Ala Tyr Leu Thr Ala Thr Gly His Arg Asp Thr Asp Val Pro Tyr
 210 215 220
 Ser Asn Ile Val Ala Leu Asn Glu His Ala Ser Val Leu His Tyr Thr
 225 230 235 240
 Lys Leu Asp His Gln Val Pro Ala Glu Met Arg Ser Phe Leu Leu Asp
 245 250 255
 Ala Gly Ala Glu Tyr Asn Gly Tyr Ala Ala Asp Leu Thr Arg Thr Trp
 260 265 270
 Ala Ala Asn Ala Asp Thr Asp Phe Ala Gln Leu Ile Lys Asp Val Asn
 275 280 285
 Asp Glu Gln Leu Ala Leu Ile Gly Thr Met Lys Ala Gly Thr Ser Tyr
 290 295 300
 Val Asp Tyr His Ile Gln Phe His Gln Arg Ile Ala Lys Leu Leu Arg
 305 310 315 320
 Lys His Gln Ile Ile Lys Asp Met Ser Glu Glu Ala Met Val Glu Asn
 325 330 335
 Asp Leu Thr Gly Pro Phe Met Pro His Gly Ile Gly His Pro Leu Gly
 340 345 350
 Leu Gln Val His Asp Val Ala Gly Phe Met Gln Asp Thr Gly Thr
 355 360 365
 His Leu Ala Ala Pro Ser Lys Tyr Pro Tyr Leu Arg Cys Thr Arg Val
 370 375 380
 Leu Ala Pro Arg Met Val Leu Thr Ile Glu Pro Gly Ile Tyr Phe Ile
 385 390 395 400
 Glu Ser Leu Leu Ala Pro Trp Arg Glu Gly Gln Phe Ser Lys His Phe
 405 410 415
 Asn Trp Glu Lys Ile Glu Ala Leu Lys Pro Tyr Gly Gly Ile Arg Ile
 420 425 430
 Glu Asp Asn Val Val Ile His Glu Asn Ser Ile Glu Asn Met Thr Arg
 435 440 445
 Asp Leu Lys Leu Ala
 450

<210> 9972

<211> 848

<212> PRT

<213> Enterobacter cloacae

<400> 9972

Ala Gly Arg Leu Leu Met Ile Leu Val Pro Ser Pro Pro Pro Thr Pro
 1 5 10 15
 Ser Leu Phe Lys Ile Met Pro Phe Arg Leu Phe Arg Tyr Ala Pro Leu
 20 25 30
 Ser Val Leu Leu Ser Phe Ser Arg Ala Gly Met Ala Glu Asp Tyr
 35 40 45
 Phe Asp Pro Ala Ala Leu Glu Leu Ser Ser Thr Glu Gln Lys Thr Ala
 50 55 60
 Asp Leu His Tyr Phe Ser Glu Lys Gly Gly Gln Met Pro Gly Thr Trp
 65 70 75 80
 Leu Val Thr Leu Glu Ile Asn Gly Arg Glu Glu Arg His Gln Glu Ile
 85 90 95
 Thr Phe Val Asn Glu Lys Gly Ser Leu Gln Pro Val Phe Ser Val Ser
 100 105 110
 Leu Leu Glu Ala Leu Ser Val Asn Val Gly Ala Ile Pro Ala Phe Ser

115 120 125
 Arg Leu Gln Glu Gly Glu Thr Phe Thr His Leu Glu Asp Phe Ile Pro
 130 135 140
 Ala Ala Arg Thr Ser Tyr Asp Phe Asn Gln Gln Arg Leu Phe Leu Asn
 145 150 155 160
 Leu Pro Gln Ala Ala Met Lys His Arg Ser Arg Gly Tyr Val Pro Gln
 165 170 175
 Ser Gln Trp Asp Asp Gly Ile Pro Ala Ala Phe Thr Asp Tyr Ser Leu
 180 185 190
 Ser Gly Gly Gln Ala Arg His Gln Ser Gly Val Thr Thr Ser Ser Tyr
 195 200 205
 Leu Ser Leu Arg Asn Gly Ile Asn Leu Gly Ala Trp Arg Leu Arg Asn
 210 215 220
 Thr Ser Ala Trp Ser His Ser Asp Ala Gly Gly Asn His Phe Gln Ser
 225 230 235 240
 Gln Ser Ser Trp Leu Ser Arg Asp Ile Arg Arg Leu Asn Ser Gln Leu
 245 250 255
 Arg Ile Gly Asp Ala Trp Thr Ala Gly Asp Val Phe Asp Ser Val Ala
 260 265 270
 Phe Arg Gly Val Gln Leu Ser Ser Ser Glu Ser Met Leu Pro Asp Ser
 275 280 285
 Gln Arg Gly Phe Ala Pro Thr Ile Arg Gly Val Ala His Ser Phe Ala
 290 295 300
 Lys Val Ser Val Ser Gln Asn Gly Tyr Val Ile Tyr Glu Thr Trp Val
 305 310 315 320
 Ala Ala Gly Pro Phe Ile Ile Asn Asp Leu Phe Pro Gly Ala Gln Ser
 325 330 335
 Gly Asp Leu Gln Val Thr Val Thr Glu Ser Asp Gly Ser Thr Arg Val
 340 345 350
 Phe Thr Gln Pro Tyr Ser Ala Val Pro Phe Met Arg Arg Gln Gly Ser
 355 360 365
 Leu Lys Tyr Ser Leu Asn Ala Gly Arg Phe His Ser Gly Ser Gly Asp
 370 375 380
 Ala Arg Ser Pro Glu Phe Val Glu Gly Ala Phe Phe Tyr Gly Leu Leu
 385 390 395 400
 Ser Arg Met Thr Val Tyr Gly Gly Phe Arg Thr Ala Ser Asn Tyr Gln
 405 410 415
 Ala Gly Ala Ile Gly Ile Gly Arg Gly Phe Gly Ala Phe Gly Ser Leu
 420 425 430
 Gly Ile Asp Asp Thr Leu Ala Lys Ser His Leu Pro Asp Gly Lys Asn
 435 440 445
 Ala Ile Gly Gln Ala Trp Arg Ile Gln Tyr Gln Lys Asp Phe Ser Ala
 450 455 460
 Thr Gly Thr Ala Phe Asn Leu Ala Ser Tyr Arg Tyr Ala Ser Arg Asn
 465 470 475 480
 Tyr Tyr Glu Phe Ser Glu Leu Asn Gln Ser Asp Ser Gln Gln Leu Gln
 485 490 495
 Leu Asn Asn Arg Arg Ser Arg Ser Gln Val Thr Phe Ser Gln Thr Leu
 500 505 510
 Gly Gln Phe Gly Ser Leu Ser Val Ser Ala Trp Met Gln Asp Tyr Trp
 515 520 525
 His Thr Ser Gly Gln Asp Lys Thr Ile His Ile Gly Trp Tyr Thr Ser
 530 535 540
 Trp Arg Gly Ile Ser Trp Gly Ala Gly Tyr Asp Tyr Thr Asp Ser Ala
 545 550 555 560
 Arg Glu Gln His Pro Asp Arg Thr Val Ser Phe Asn Val Asn Val Pro
 565 570 575
 Leu Gly His Trp Leu Pro Asp Ser Ser Val Ser Tyr Phe Ile Asn His
 580 585 590
 Asn Asn Arg Gly Met Thr Thr Gln Gln Met Ser Leu Asn Gly Ser Ala
 595 600 605

Leu Ala Asn Arg Asn Leu Asn Tyr Ser Val Gln Gln Ser Lys Ala Ser
 610 615 620
 Glu Gly Gln Ala Asp Ser Thr Ser Leu Ala Leu Gln Tyr Asn Gly Gly
 625 630 635 640
 Tyr Gly Asn Val Ser Leu Gly Tyr Asp His Ser Arg Ser Gly Ser Asn
 645 650 655
 Ala Ser Leu Gly Leu Ala Gly Gly Val Ile Ala Thr Gln Tyr Gly Val
 660 665 670
 Thr Leu Ser Glu Pro Leu Gly Asp Thr Val Ala Leu Leu Arg Val Pro
 675 680 685
 Gly Ala Ala Asn Val Glu Pro Glu Gly Tyr Asn Gly Ile His Thr Asp
 690 695 700
 Ser Arg Gly Tyr Ala Val Met Pro Thr Leu Ser Ala Tyr Arg Lys Asn
 705 710 715 720
 Thr Val Ser Leu Asp Thr Ala Thr Leu Gly Glu Asn Val Asp Val Glu
 725 730 735
 Gln Ser Gly Leu Thr Leu Ile Pro Thr Ser Gly Ala Val Val Leu Ala
 740 745 750
 Asn Tyr Lys Thr His Ile Gly Tyr Arg Val Leu Phe Ser Leu Arg Tyr
 755 760 765
 His Gly Glu Pro Leu Pro Phe Gly Ala Gln Ala Glu Val Val Glu Gln
 770 775 780
 Asn Arg His Ser Ala Asn Arg Ser Met Val Ala Asp Gly Gly Gln Ala
 785 790 795 800
 Tyr Leu Ser Gly Val Pro Glu Arg Gly Thr Leu Arg Val Thr Trp Tyr
 805 810 815
 Glu Asn Gly Glu Gln Gln Cys Gln Thr Pro Phe Arg Leu Gly Lys
 820 825 830
 Ala His Met Ala Pro Gly Ile Ala Thr Leu Ser Leu Glu Cys His
 835 840 845

<210> 9973

<211> 368

<212> PRT

<213> Enterobacter cloacae

<400> 9973

Arg Asn Ile Met Arg Arg Phe Ile His Trp Phe Phe Tyr Leu Ser Leu
 1 5 10 15
 Leu Ser Leu Phe Gly Met Leu Ser Phe His Ala His Gln Thr Ser
 20 25 30
 Thr Cys Arg Thr Thr Arg Asp Gln Trp Val Val Gln Val Pro Tyr Ala
 35 40 45
 Ile Gly Tyr Ala Pro Gly Thr Ser Asp Trp Thr Pro Ile Ser Ala Pro
 50 55 60
 Ile Gln Ser Thr Gly Ala Asp Phe Tyr Ser Cys Asp Gly Gly Asn Asp
 65 70 75 80
 Pro Trp Arg Ser Ile Gly Phe Val Glu Leu Asp Asn Pro Val Gly Thr
 85 90 95
 Val Val Gly Glu Asp Gly Ala Ser Arg His Val Tyr Lys Thr Gln Ile
 100 105 110
 Asp Gly Ile Gly Tyr Ala Leu Gly Phe Arg Glu Gln Gln Tyr Cys Gly
 115 120 125
 Ala Asp Ala Val Arg Tyr Ile Asp Gly Thr Ser Pro Val Asp Gly Asn
 130 135 140
 Glu Ser Arg Arg Ile Cys Asp Ala Ser Gln Asn Pro Ala Phe Ala Ser
 145 150 155 160
 Ala Pro Thr Tyr Lys Leu Gln Phe Trp Val Val Phe Tyr Lys Ile Pro
 165 170 175
 Thr Thr Ser Pro Met Pro Asp Asp Asn Ala Asn Ser Gln Glu Gln Asn
 180 185 190

Val Gly Ser Leu Ile Leu Gln Ala Gly Glu Asn Gln Ala Ser Ala Thr
 195 200 205
 Asn Val Ala Thr Pro Val Gln Ile His Leu Ala Ser Phe Thr Val Arg
 210 215 220
 Arg Thr Ser Cys Ser Val Gly Ser Arg Ser Ile Leu Val Pro Met Gly
 225 230 235 240
 Ser Val Ser Gln Arg Glu Phe His Gly Ile Gly Phe Arg Ala Gly Gly
 245 250 255
 Gly Arg Phe Ser Ile Pro Val Thr Cys Glu Asn Asn Thr Ala Val Lys
 260 265 270
 Met Gly Phe Gly Asp Thr Thr Pro Gly Asn Asp Arg Ala Leu Ala
 275 280 285
 Leu Thr Lys Gln Glu Asp Ser Ala Ser Gly Val Gly Ile Glu Leu Leu
 290 295 300
 Tyr Gly Asp Asn Thr Gly Ser Val Gln Gly Gln Val Val Pro Trp Asn
 305 310 315 320
 Thr Pro Gln Val Ser Ala Leu Gly Gln Val Gly Asp Asn Gln Thr Gln
 325 330 335
 Thr Phe Trp Phe Asp Ala His Tyr Ile Gln Thr Glu Ala Asn Val Thr
 340 345 350
 Ala Gly Lys Ala Asp Ala Met Ala Thr Phe Asn Leu Ile Tyr Asn
 355 360 365

<210> 9974

<211> 548

<212> PRT

<213> *Enterobacter cloacae*

<400> 9974

Ile Trp Arg Arg Ser Pro Ser Pro Ala Pro Ser Ala Thr Ser Ile Ser
 1 5 10 15
 Ala Ala Ser Arg Arg Ala Gly Ala Trp Ile Val Arg Cys Trp Ser Asn
 20 25 30
 Trp Arg Arg Arg Ser Ser Ser Ala Lys Val Ser Pro Gly Leu Asn His
 35 40 45
 Gln Arg Leu Asp Ala Gly Tyr Asn Thr Ser Trp Arg Glu Ala Val Gln
 50 55 60
 Ser Pro His Met Leu Thr Pro Ser Pro Val Gly Arg Gly Glu Asp Ile
 65 70 75 80
 Tyr Ser Pro Gly Ala Phe Met Thr Thr His Ser Leu Tyr Ser Gln
 85 90 95
 Ile Pro Ala Thr Asp Arg Leu Leu Arg Asp Pro Arg Ile Thr Ala Val
 100 105 110
 Leu Glu Gln Phe Gly His Thr Ala Thr Val Asp Met Leu Arg Gln Leu
 115 120 125
 Gln Asp Asp Ala Arg Arg His Ile Gln Ala Glu Asn Ala Leu Pro Gly
 130 135 140
 Trp Cys Glu Ala Trp Ala Gln Glu Val Glu Arg Arg Leu Ser Lys His
 145 150 155 160
 Ala Gln Ser Ala Leu Arg Pro Val Ile Asn Leu Thr Gly Thr Val Leu
 165 170 175
 His Thr Asn Leu Gly Arg Ala Gln Gln Ala Glu Glu Ala Ile Asp Ala
 180 185 190
 Val Thr Arg Ala Met Arg Ser Pro Val Thr Leu Glu Tyr Asp Leu Asp
 195 200 205
 Gly Ala Gly Arg Gly His Arg Asp Arg Ala Leu Ala Asp Leu Leu Cys
 210 215 220
 Gln Ile Thr Gly Ala Glu Asp Ala Cys Ile Val Asn Asn Asn Ala Ala
 225 230 235 240
 Ala Val Leu Leu Met Leu Ala Ala Thr Ala Ser Gly Lys Glu Val Val
 245 250 255

Val Ser Arg Gly Glu Leu Val Glu Ile Gly Gly Ala Phe Arg Ile Pro
 260 265 270
 Asp Val Met Arg Gln Ala Gly Cys Thr Leu His Glu Val Gly Thr Thr
 275 280 285
 Asn Arg Thr His Ala Lys Asp Tyr Arg Ala Ala Val Asn Glu Asn Thr
 290 295 300
 Ala Leu Leu Met Lys Val His Thr Ser Asn Tyr His Ile Glu Gly Phe
 305 310 315 320
 Thr Lys Thr Val Glu Glu Ala Glu Leu Ala Ala Ile Gly Arg Glu Leu
 325 330 335
 Asn Val Pro Val Ile Ala Asp Leu Gly Ser Gly Ser Leu Val Asp Met
 340 345 350
 Arg Gln Tyr Gly Leu Pro Lys Glu Pro Met Val Gln Glu Met Val Ala
 355 360 365
 Ala Gly Val Ser Leu Val Ser Phe Ser Gly Asp Lys Leu Leu Gly Gly
 370 375 380
 Pro Gln Ala Gly Ile Ile Val Gly Arg Arg Glu Leu Ile Ala Gln Leu
 385 390 395 400
 Gln Gln His Pro Leu Lys Arg Ala Leu Arg Ala Asp Lys Met Thr Leu
 405 410 415
 Ala Ala Leu Glu Ala Thr Leu Arg Leu Tyr Leu His Pro Glu Lys Leu
 420 425 430
 Ala Asp Arg Leu Pro Thr Leu Arg Leu Leu Ser Arg Asp Ala Ala Ser
 435 440 445
 Val Arg Ala Gln Ala Glu Ala Leu Leu Pro Gln Val Ala Pro His Tyr
 450 455 460
 Pro Glu Phe Glu Val Arg Ile Glu Pro Cys Leu Ser Gln Ile Gly Ser
 465 470 475 480
 Gly Ser Leu Pro Val Asp Arg Leu Pro Ser Glu Ala Leu Thr Phe Thr
 485 490 495
 Pro Arg Asp Gly Arg Gly Ser Gln Leu Glu Ala Leu Ser Ala Arg Trp
 500 505 510
 Arg Ala Leu Pro Thr Pro Val Ile Gly Arg Ile Gly Asp Gly Arg Met
 515 520 525
 Trp Leu Asp Leu Arg Cys Leu Glu Asp Glu Val Arg Phe Leu Glu Met
 530 535 540
 Met Leu Lys
 545

<210> 9975

<211> 547

<212> PRT

<213> Enterobacter cloacae

<400> 9975

Ser Thr Val Ile Arg Asp Thr Ala Arg Lys Pro Val Thr Asp Trp Arg
 1 5 10 15
 Glu Asn His Gln Pro Glu Leu Pro Leu Leu Tyr Thr Tyr Cys Lys Glu
 20 25 30
 Thr Val Met Thr Asn Asn Pro Pro Ser Ser Arg Ile Gln Pro Gly Glu
 35 40 45
 Tyr Gly Phe Pro Leu Lys Leu Lys Pro Arg Tyr Asp Asn Phe Ile Gly
 50 55 60
 Gly Asp Trp Val Ala Pro Val Asp Gly Glu Tyr Tyr Ser Asn Leu Thr
 65 70 75 80
 Pro Val Thr Gly Gln Pro Leu Cys Glu Ile Ala Ser Ser Gly Lys Arg
 85 90 95
 Asp Ile Asp Leu Ala Leu Asp Ala Ala His Lys Ala Lys Asp Lys Trp
 100 105 110
 Gly Gln Thr Ser Val Gln Asp Arg Ala Ala Ile Leu Phe Lys Ile Ala
 115 120 125

Asp Arg Ile Glu Gln Asn Leu Glu Leu Leu Ala Thr Ala Glu Thr Trp
 130 135 140
 Asp Asn Gly Lys Pro Ile Arg Glu Thr Met Ala Ala Asp Val Pro Leu
 145 150 155 160
 Ala Ile Asp His Phe Arg Tyr Phe Ala Ser Cys Ile Arg Ala Gln Glu
 165 170 175
 Gly Gly Ile Ser Glu Val Asp Lys Asp Thr Val Ala Tyr His Phe His
 180 185 190
 Glu Pro Leu Gly Val Val Gly Gln Ile Ile Pro Trp Asn Phe Pro Leu
 195 200 205
 Leu Met Ala Ser Trp Lys Met Ala Pro Ala Leu Ala Gly Asn Cys
 210 215 220
 Val Val Leu Lys Pro Ala Arg Leu Thr Pro Leu Ser Val Leu Leu Leu
 225 230 235 240
 Met Glu Val Ile Gly Asp Leu Leu Pro Pro Gly Val Ile Asn Val Val
 245 250 255
 Asn Gly Ala Gly Gly Glu Ile Gly Glu Tyr Leu Ala Thr Ser Lys Arg
 260 265 270
 Ile Ala Lys Val Ala Phe Thr Gly Ser Thr Glu Val Gly Gln Gln Ile
 275 280 285
 Met Gln Tyr Ala Thr Gln Asn Ile Ile Pro Val Thr Leu Glu Leu Gly
 290 295 300
 Gly Lys Ser Pro Asn Ile Phe Phe Ala Asp Val Met Asp Glu Glu Asp
 305 310 315 320
 Ala Phe Phe Asp Lys Ala Leu Glu Gly Phe Ala Leu Phe Ala Phe Asn
 325 330 335
 Gln Gly Glu Val Cys Thr Cys Pro Ser Arg Ala Leu Val Gln Glu Ser
 340 345 350
 Ile Tyr Glu Arg Phe Met Glu Arg Ala Ile Arg Arg Val Glu Ser Ile
 355 360 365
 Arg Ser Gly Asn Pro Leu Asp Asn Val Thr Gln Met Gly Ala Gln Val
 370 375 380
 Ser His Gly Gln Leu Glu Thr Ile Leu Asn Tyr Ile Asp Ile Gly Lys
 385 390 395 400
 Lys Glu Gly Ala Asp Val Leu Thr Gly Gly Arg Arg Lys Val Leu Gly
 405 410 415
 Gly Asp Leu Gln Glu Gly Tyr Tyr Leu Glu Pro Thr Ile Leu Phe Gly
 420 425 430
 Lys Asn Asn Met Arg Val Phe Gln Glu Glu Ile Phe Gly Pro Val Leu
 435 440 445
 Ala Val Thr Thr Phe Lys Thr Met Asp Glu Ala Leu Glu Leu Ala Asn
 450 455 460
 Asp Thr Gln Tyr Gly Leu Gly Ala Gly Val Trp Ser Arg Asn Gly Asn
 465 470 475 480
 Leu Ala Tyr Lys Met Gly Arg Gly Ile Gln Ala Gly Arg Val Trp Thr
 485 490 495
 Asn Cys Tyr His Ala Tyr Pro Ala His Ala Ala Phe Gly Gly Tyr Lys
 500 505 510
 Gln Ser Gly Ile Gly Arg Glu Thr His Lys Met Met Leu Glu His Tyr
 515 520 525
 Gln Gln Thr Lys Cys Leu Leu Val Ser Tyr Ser Asp Lys Pro Leu Gly
 530 535 540
 Leu Phe
 545

<210> 9976

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 9976

Val Ala Ala Lys Asp Gly Tyr Ser Phe Leu Asn Ala Leu Arg Val Lys
 1 5 10 15
 Arg Leu Asn His Leu Ile Arg Gln Ala Gln Gln Val Val Thr Pro Asp
 20 25 30
 His Leu Ala His His Arg Arg Ala Asp Ala Ala Arg Arg Lys Ala Asp
 35 40 45
 Asn Ala Val His Val Gly Asn Gly Gly Asp Asp Phe Leu Val Ser Asn
 50 55 60
 Asp Asn Ala Ala Thr Ala Ala Arg Gln Ala Gln Leu Gly Glu Ala His
 65 70 75 80
 Ala Glu Asp Asp Ile Arg Val Pro
 85

<210> 9977

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9977

Arg Thr Arg Phe Ala Glu Asp Asp Pro Arg Glu Arg Tyr Ala Ile Gly
 1 5 10 15
 Val Ile Asp His Gln Arg Asp Ala Val Leu Ile Arg Gln Arg Ile Gln
 20 25 30
 Leu His Gln Leu Val Val Gly Asp His Val Pro Arg Arg Val Gly Gly
 35 40 45
 Thr Arg Tyr Ala Asp His Ala Arg Leu Phe Thr Asp Met Gln Met Phe
 50 55 60
 Lys Ile Asp Val Ile Phe Glu Leu Ala Leu Trp Gln Gln Leu Asp Ile
 65 70 75 80
 Arg Thr Cys Gly Asn Lys Gln Val Phe Phe Glu Ala Gly Ile Gly Ile
 85 90 95
 Ala Asn Ile Leu Arg Cys Gln Arg Glu Gln His Phe Phe Arg Gly Ala
 100 105 110
 Val Gly Ala Ala Ser Gly Glu Gln Ile Glu
 115 120

<210> 9978

<211> 470

<212> PRT

<213> Enterobacter cloacae

<400> 9978

Asn Asn Val Ile Glu Gln Pro Pro Met Ser Ile His Tyr Tyr Ser Arg
 1 5 10 15
 Ser Lys Thr Thr Pro His Thr Leu Ile Met Glu Leu Asn Met Gln Ala
 20 25 30
 Tyr Phe Asp Gln Leu Asp Arg Val Arg Phe Glu Gly Thr Lys Thr Thr
 35 40 45
 Asn Pro Leu Ala Phe Arg His Tyr Asn Pro Asp Glu Leu Val Leu Gly
 50 55 60
 Lys Arg Met Glu Asp His Leu Arg Phe Ala Ala Cys Tyr Trp His Thr
 65 70 75 80
 Phe Cys Trp Asn Gly Ala Asp Met Phe Gly Val Gly Ser Phe Asp Arg
 85 90 95
 Pro Trp Gln Gln Pro Gly Glu Ala Ile Glu Leu Ala Lys Arg Lys Ala
 100 105 110
 Asp Val Ala Phe Glu Phe Phe His Lys Leu Asn Val Pro Tyr Tyr Cys
 115 120 125
 Phe His Asp Val Asp Val Ser Pro Glu Gly Ala Ser Leu Lys Glu Tyr
 130 135 140
 Leu Asn Asn Phe Ala Gln Met Val Asp Val Leu Ala Glu Lys Gln Gln

145 150 155 160
 Gln Ser Gly Val Lys Leu Leu Trp Gly Thr Ala Asn Cys Phe Thr Asn
 165 170 175
 Pro Arg Tyr Gly Ala Gly Ala Ala Thr Asn Pro Asp Pro Glu Val Phe
 180 185 190
 Ser Trp Ala Ala Thr Gln Val Val Thr Ala Met Asn Ala Thr His Gln
 195 200 205
 Leu Gly Gly Glu Asn Tyr Val Leu Trp Gly Gly Arg Glu Gly Tyr Glu
 210 215 220
 Thr Leu Leu Asn Thr Asp Leu Arg Gln Glu Arg Glu Gln Ile Gly Arg
 225 230 235 240
 Phe Met Gln Met Val Val Asp His Lys His Lys Ile Gly Phe Arg Gly
 245 250 255
 Thr Leu Leu Ile Glu Pro Lys Pro Gln Glu Pro Thr Lys His Gln Tyr
 260 265 270
 Asp Tyr Asp Val Ala Thr Val Tyr Gly Phe Leu Lys Gln Phe Gly Leu
 275 280 285
 Glu Lys Glu Ile Lys Val Asn Ile Glu Ala Asn His Ala Thr Leu Ala
 290 295 300
 Gly His Ser Phe His His Glu Ile Ala Ser Ala Ile Ala Leu Gly Ile
 305 310 315 320
 Phe Gly Ser Val Asp Ala Asn Arg Gly Asp Pro Gln Leu Gly Trp Asp
 325 330 335
 Thr Asp Gln Phe Pro Asn Ser Val Glu Glu Asn Ala Leu Val Met Tyr
 340 345 350
 Glu Ile Ile Lys Ala Gly Gly Phe Thr Thr Gly Gly Leu Asn Phe Asp
 355 360 365
 Ala Lys Val Arg Arg Gln Ser Thr Asp Lys Tyr Asp Leu Phe Tyr Gly
 370 375 380
 His Ile Gly Ala Met Asp Thr Met Ala Leu Ala Leu Lys Val Ala Ala
 385 390 395 400
 Arg Met Ile Glu Asp Gly Glu Leu Asp Lys Arg Val Ala Lys Arg Tyr
 405 410 415
 Ser Gly Trp Asn Ser Glu Leu Gly Gln Gln Ile Leu Lys Gly Gln Leu
 420 425 430
 Ser Leu Ala Glu Ile Ala Lys Tyr Ala Glu Gln His Gln Leu Ala Pro
 435 440 445
 Gln His Gln Ser Gly His Gln Glu Leu Leu Glu Asn Leu Val Asn His
 450 455 460
 Tyr Leu Phe Asp Lys
 465 470

<210> 9979

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 9979

Ile Pro Lys Glu Ala Ala Glu Met His Phe Arg Ala Ile Thr Arg Ile
 1 5 10 15
 Val Gly Leu Leu Val Ile Leu Phe Ser Gly Thr Met Ile Ile Pro Gly
 20 25 30
 Leu Val Ala Leu Ile Tyr Arg Asp Gly Ala Gly Arg Ala Phe Thr Gln
 35 40 45
 Thr Phe Phe Val Ala Leu Thr Ile Gly Ser Leu Leu Trp Trp Pro Asn
 50 55 60
 Arg Arg Glu Lys Gly Glu Leu Lys Ser Arg Glu Gly Phe Leu Ile Val
 65 70 75 80
 Val Leu Phe Trp Thr Val Leu Gly Ser Val Gly Ala Leu Pro Phe Ile
 85 90 95
 Phe Ser Glu Gln Pro Asn Leu Thr Val Thr Asp Ala Phe Phe Glu Ser

100 105 110
 Phe Ser Gly Leu Thr Thr Thr Gly Ala Thr Thr Leu Val Gly Leu Asp
 115 120 125
 Ser Leu Pro His Ala Ile Leu Phe Tyr Arg Gln Met Leu Gln Trp Phe
 130 135 140
 Gly Gly Met Gly Ile Ile Val Leu Ala Val Ala Ile Leu Pro Ile Leu
 145 150 155 160
 Gly Val Gly Gly Met Gln Leu Tyr Arg Ala Glu Met Pro Gly Pro Leu
 165 170 175
 Lys Asp Asn Lys Met Arg Pro Arg Ile Ala Glu Thr Ala Lys Thr Leu
 180 185 190
 Trp Leu Ile Tyr Val Leu Leu Thr Val Ala Cys Ala Leu Ala Leu Trp
 195 200 205
 Phe Ala Gly Met Pro Ala Phe Asp Ala Ile Gly His Ser Phe Ala Thr
 210 215 220
 Ile Ala Ile Gly Gly Phe Ser Thr His Asp Ala Ser Val Gly Tyr Phe
 225 230 235 240
 Asp Ser Pro Thr Ile Asn Thr Ile Ile Ala Ile Phe Leu Leu Ile Ser
 245 250 255
 Gly Cys Asn Tyr Gly Leu His Phe Ser Leu Leu Ser Gly Arg Ser Leu
 260 265 270
 Lys Val Tyr Trp Arg Asp Pro Glu Phe Arg Met Phe Ile Gly Val Gln
 275 280 285
 Leu Thr Leu Val Ile Ile Cys Thr Leu Val Leu Trp Phe His Asp Val
 290 295 300
 Tyr Asn Ser Ala Val Thr Thr Leu Asn Gln Ala Phe Phe Gln Val Val
 305 310 315 320
 Ser Met Ala Thr Thr Ala Gly Phe Thr Thr Asp Ser Ile Ala Arg Trp
 325 330 335
 Pro Leu Phe Leu Pro Val Leu Leu Leu Cys Ser Ala Phe Ile Gly Gly
 340 345 350
 Cys Ala Gly Ser Thr Gly Gly Gly Leu Lys Val Ile Arg Ile Leu Leu
 355 360 365
 Leu Phe Lys Gln Gly Asn Arg Glu Leu Lys Arg Leu Val His Pro Asn
 370 375 380
 Ala Val Tyr Ser Ile Lys Leu Gly Asn Arg Ala Leu Pro Glu Arg Ile
 385 390 395 400
 Leu Glu Ala Val Trp Gly Phe Phe Ser Ala Tyr Ala Leu Val Phe Ile
 405 410 415
 Val Ser Met Leu Ala Ile Ile Ala Thr Gly Val Asp Asp Phe Ser Ala
 420 425 430
 Phe Ala Ser Val Val Ala Thr Leu Asn Asn Leu Gly Pro Gly Leu Gly
 435 440 445
 Val Val Ala Asp Asn Phe Ala Ser Met Asn Pro Val Ala Lys Trp Ile
 450 455 460
 Leu Ile Ala Asn Met Leu Phe Gly Arg Leu Glu Val Phe Thr Leu Leu
 465 470 475 480
 Val Leu Phe Thr Pro Thr Phe Trp Arg Glu
 485 490

<210> 9980

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 9980

Gly Gly Glu Met Gly Glu Leu Leu Asn Ser Gly Leu Leu Ser Ile Ala
 1 5 10 15
 Ser Leu Val Met Ser Leu Val Val Leu Val Val Gly Leu Val Leu Trp
 20 25 30
 Phe Phe Val Asn Arg Ala Ser Ser Arg Thr Asn Glu Gln Ile Glu Leu

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          35          40          45
Leu Glu Ala Leu Leu Asp Gln Gln Lys Arg Gln Asn Ala Leu Leu Arg
   50          55          60
Arg Leu Cys Glu Ala Asn Glu Pro Glu Glu Lys Ala Val Pro Lys Asp
   65          70          75          80
Ala Val Ala Gln Gln Asp Glu Glu Asp Phe Ile Arg Leu Val Ala
          85          90          95
Glu Arg

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<210> 9981

<211> 172

<212> PRT

<213> *Enterobacter cloacae*

<400> 9981

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Thr His Ser Gln Gln Gln Ser Val Lys Pro Met Lys Tyr Asp Thr Ser
   1          5          10          15
Glu Leu Cys Asp Ile Tyr Gln Glu Asp Val Asn Val Val Glu Pro Leu
          20          25          30
Phe Ser Asn Phe Gly Gly Arg Ser Ser Phe Gly Gly Gln Ile Ile Thr
          35          40          45
Val Lys Cys Phe Glu Asp Asn Gly Leu Leu Tyr Asp Leu Leu Glu Glu
          50          55          60
Asn Gly Arg Gly Arg Val Leu Val Asp Gly Gly Gly Ser Val Arg
          65          70          75          80
Arg Ala Leu Ile Asp Ala Asp Leu Ala Arg Leu Ala Val Gln Asn Glu
          85          90          95
Trp Glu Gly Ile Val Val Tyr Gly Ser Val Arg Gln Val Asp Asp Leu
          100          105          110
Glu Asp Leu Asp Ile Gly Ile Gln Ala Ile Ala Ala Ile Pro Val Gly
          115          120          125
Ala Ala Gly Glu Gly Ile Gly Glu Ser Asp Val Arg Val Asn Phe Gly
          130          135          140
Gly Val Thr Phe Phe Ser Gly Asp His Leu Tyr Ala Asp Asn Thr Gly
          145          150          155          160
Ile Ile Leu Ser Glu Asp Ala Leu Asp Ile Glu
          165          170

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<210> 9982

<211> 234

<212> PRT

<213> *Enterobacter cloacae*

<400> 9982

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Thr Met Asn Lys Ile Leu Leu Val Asp Asp Arg Glu Leu Thr Ser
   1          5          10          15
Leu Leu Lys Glu Leu Leu Asp Met Glu Gly Phe Asn Val Leu Val Ala
          20          25          30
His Asp Gly Glu Gln Ala Leu Ser Leu Leu Asp Asp Ser Ile Asp Leu
          35          40          45
Leu Leu Leu Asp Val Met Met Pro Lys Lys Asn Gly Ile Asp Thr Leu
          50          55          60
Lys Glu Leu Arg Gln Thr His Gln Thr Pro Val Ile Met Leu Thr Ala
          65          70          75          80
Arg Gly Ser Glu Leu Asp Arg Val Leu Gly Leu Glu Leu Gly Ala Asp
          85          90          95
Asp Tyr Leu Pro Lys Pro Phe Asn Asp Arg Glu Leu Val Ala Arg Ile
          100          105          110
Arg Ala Ile Leu Arg Arg Ser His Trp Ser Glu Gln Gln Asn Thr
          115          120          125

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Asp Asn Ser Ser Pro Thr Leu Glu Val Asp Ser Leu Ser Leu Asn Pro
 130 135 140
 Gly Arg Gln Glu Ala Ser Phe Asp Gly Glu Thr Leu Glu Leu Thr Gly
 145 150 155 160
 Thr Glu Phe Thr Leu Leu Tyr Leu Leu Ala Gln His Leu Gly Gln Val
 165 170 175
 Val Ser Arg Glu His Leu Ser Gln Glu Val Leu Gly Lys Arg Leu Thr
 180 185 190
 Pro Phe Asp Arg Ala Ile Asp Met His Ile Ser Asn Leu Arg Arg Lys
 195 200 205
 Leu Pro Glu Arg Lys Asp Gly His Pro Trp Phe Lys Thr Leu Arg Gly
 210 215 220
 Arg Gly Tyr Leu Met Val Ser Ala Ser
 225 230

<210> 9983

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 9983

Glu Ile Phe Ala Lys Arg Gly Gly Asp Glu Glu Val Ser Leu Phe Arg
 1 5 10 15
 Lys Phe Gly Phe Pro Val Leu Ile Val Leu Ala Arg Ile Val Ala Gln
 20 25 30
 Arg Ala Ile Gly Pro Ala Val Asp Phe Leu Phe Ser Leu Leu Val Thr
 35 40 45
 Arg Lys Pro Glu Ile Gly Gln Arg Gln Leu Thr Val Asp Leu His Phe
 50 55 60
 Gly Asp Gly Thr Arg Ala Ala Phe Val Leu Pro Tyr Leu Ala Cys
 65 70 75
 Lys His Ile His Arg Val Met His Leu His Ser Phe Arg Tyr Lys Lys
 85 90 95
 Ser Glu Ser Ser Asp Ser Leu Leu Thr Gly Val Asn Ala Thr Leu Phe
 100 105 110
 Phe Ser Gly Glu Thr Arg Cys Cys Phe Val Pro Val His His Val Pro
 115 120 125
 Glu Gly Phe Asp Val Val Arg Ala Thr Val Leu Glu Leu Gln Val Val
 130 135 140
 Ser Val Phe Pro His Val Gln Thr Gln Asn Trp Glu Ala Gly Cys Ala
 145 150 155 160
 Arg Asp Ser Phe Thr His Lys Arg Gly Ile Leu Val Ser Gly Arg Asn
 165 170 175
 Asp Arg Gln Phe Val Thr Phe Gln Asn Gln Pro Arg Pro Ala Arg Ala
 180 185 190
 Glu Thr Gly Cys Ser Gly Phe Phe Glu Phe Arg Phe Glu Val Val Asn
 195 200 205
 Gly Thr Glu Val Thr Leu Asp Ser Arg Phe Gln Val Ala Leu Lys Gly
 210 215 220
 Gly Ala Gly Phe Gln Ala Phe Pro Glu Gln Ala Val Val Ser Val Thr
 225 230 235 240
 Ala Arg Val Val Ala Gln His Gly Phe Leu Val Cys Trp Gln Leu Val
 245 250 255
 Gln Phe Gly Asp Gln Leu Phe Asn Arg Gln Ile Ser Glu Leu Trp Gln
 260 265 270
 Ala Phe Gln Arg Ser Ile Arg Val Val His Val Gly Leu Val Val Phe
 275 280 285
 Ser Val Met Asp Phe His Arg Leu Leu Val Glu Met Arg Phe Gln Cys
 290 295 300
 Val Val Gly Ile Arg Gln Gly Trp Gln Cys Ile Thr His Asn Pro Leu
 305 310 315 320

His Tyr Cys Arg Ala Gln Leu Leu Met Pro Arg Lys Gln Leu Val
 325 330 335

His Tyr Ser
 340

<210> 9984

<211> 383

<212> PRT

<213> *Enterobacter cloacae*

<400> 9984

Leu Pro Phe Lys Thr Lys Val Arg Gln Pro Ser Glu Gly Ser Gln Thr
 1 5 10 15
 Ala Ser Phe Leu His Ser Ser Ser Arg Arg Glu Ala Ser Gly Tyr Lys
 20 25 30
 Asn Asp Glu Asp Val Lys Met Asn His Ala Ile Thr Met Gly Ile Phe
 35 40 45
 Trp His Leu Ile Gly Ala Ala Ser Ala Ala Cys Phe Tyr Ala Pro Phe
 50 55 60
 Lys Lys Val Lys Gly Trp Ser Trp Glu Thr Met Trp Ser Val Gly Gly
 65 70 75 80
 Thr Val Ser Trp Leu Ile Leu Pro Trp Thr Thr Ile Ser Ala Met Leu Leu
 85 90 95
 Pro Asp Phe Trp Gly Tyr Phe Ser Ser Phe Asn Ala Ser Thr Leu Leu
 100 105 110
 Pro Val Phe Leu Phe Gly Ala Met Trp Gly Ile Gly Asn Ile Asn Tyr
 115 120 125
 Gly Leu Thr Met Arg Tyr Leu Gly Met Ser Met Gly Ile Gly Ile Ala
 130 135 140
 Ile Gly Ile Thr Leu Ile Val Gly Thr Leu Met Thr Pro Ile Leu Asn
 145 150 155 160
 Gly Asn Phe Asp Val Leu Ile Asn Thr Gln Gly Gly Arg Met Thr Leu
 165 170 175
 Leu Gly Val Leu Val Ala Val Ile Gly Val Gly Ile Val Thr Arg Ala
 180 185 190
 Gly Gln Leu Lys Glu Arg Lys Met Gly Ile Lys Ala Glu Glu Phe Asn
 195 200 205
 Leu Lys Lys Gly Leu Leu Leu Ala Val Met Cys Gly Ile Phe Ser Ala
 210 215 220
 Gly Met Ser Phe Ala Met Asn Ala Ala Lys Pro Met His Asp Ala Ala
 225 230 235 240
 Ala Ala Leu Gly Val Asp Pro Leu Tyr Val Ala Leu Pro Ser Tyr Val
 245 250 255
 Val Ile Met Gly Gly Gly Ala Leu Val Asn Leu Gly Phe Cys Phe Ile
 260 265 270
 Arg Leu Ala Lys Val Asn Asn Leu Ser Val Lys Ala Asp Phe Ser Leu
 275 280 285
 Ala Lys Pro Leu Ile Val Thr Asn Val Leu Leu Ser Ala Leu Gly Gly
 290 295 300
 Leu Met Trp Tyr Leu Gln Phe Phe Phe Tyr Ala Trp Gly His Ala Ser
 305 310 315 320
 Ile Pro Ala Gln Tyr Asp Tyr Met Ser Trp Met Leu His Met Ser Phe
 325 330 335
 Tyr Val Leu Cys Gly Gly Leu Val Gly Leu Val Leu Lys Glu Trp Asn
 340 345 350
 Asn Ala Gly Arg Arg Pro Val Gly Val Leu Ser Leu Gly Cys Val Val
 355 360 365
 Ile Ile Ile Ala Ala Asn Ile Val Gly Leu Gly Met Ala Asn
 370 375 380

<210> 9985

<211> 197
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9985
 Pro Met Gln Val Ser Arg Arg Gln Phe Phe Lys Ile Cys Ala Gly Gly
 1 5 10 15
 Met Ala Gly Thr Thr Ala Ala Ala Leu Gly Phe Ala Pro Gly Val Ala
 20 25 30
 Leu Ala Glu Thr Arg Gln Tyr Lys Leu Leu Arg Thr Arg Glu Thr Arg
 35 40 45
 Asn Thr Cys Thr Tyr Cys Ser Val Gly Cys Gly Leu Leu Met Tyr Ser
 50 55 60
 Leu Gly Asp Gly Ala Lys Asn Ala Lys Ala Ser Ile Phe His Ile Glu
 65 70 75 80
 Gly Asp Pro Asp His Pro Val Asn Arg Gly Ala Leu Cys Pro Lys Gly
 85 90 95
 Ala Gly Leu Val Asp Phe Ile His Ser Glu Ser Arg Leu Lys Phe Pro
 100 105 110
 Glu Tyr Arg Ala Pro Gly Ser Asp Lys Trp Gln Gln Ile Ser Trp Glu
 115 120 125
 Glu Ala Phe Asp Arg Ile Ala Lys Leu Met Lys Glu Asp Arg Asp Ala
 130 135 140
 Asn Phe Ile Ala Lys Asn Ala Glu Gly Thr Thr Val Asn Arg Trp Leu
 145 150 155 160
 Ser Thr Gly Met Leu Cys Ala Ser Ala Ser Ser Asn Glu Thr Gly Tyr
 165 170 175
 Leu Thr Gln Lys Phe Thr Arg Ala Leu Gly Met Leu Ala Val Asp Asn
 180 185 190
 Gln Ala Arg Val
 195

<210> 9986
 <211> 821
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9986
 His Gly Pro Thr Val Ala Ser Leu Ala Pro Thr Phe Gly Arg Gly Ala
 1 5 10 15
 Met Thr Asn His Trp Val Asp Ile Lys Asn Ala Asn Leu Ile Val Val
 20 25 30
 Met Gly Gly Asn Ala Ala Glu Ala His Pro Val Gly Phe Arg Trp Ala
 35 40 45
 Met Glu Ala Lys Ile His Asn Gly Ala Lys Leu Ile Val Ile Asp Pro
 50 55 60
 Arg Phe Thr Arg Thr Ala Ser Val Ala Asp Phe Tyr Thr Pro Ile Arg
 65 70 75 80
 Ser Gly Thr Asp Ile Thr Phe Leu Ser Gly Val Leu Leu Tyr Leu Met
 85 90 95
 Thr Asn Glu Lys Tyr Asn Arg Glu Tyr Thr Glu Ala Tyr Thr Asn Ala
 100 105 110
 Ser Leu Ile Val Arg Glu Asp Tyr His Phe Glu Asp Gly Leu Phe Ser
 115 120 125
 Gly Tyr Asp Ala Glu Lys Arg Lys Tyr Asp Lys Thr Ser Trp Asn Tyr
 130 135 140
 Glu Leu Asp Glu Asn Gly Phe Ala Lys Arg Asp Thr Thr Leu Gln His
 145 150 155 160
 Pro Arg Cys Val Trp Asn Leu Leu Lys Glu His Val Ser Arg Tyr Thr
 165 170 175
 Pro Glu Val Val Glu Asn Ile Cys Gly Thr Pro Lys Ala Asp Phe Leu

Lys	Val	Cys	180	Glu	Leu	Ile	Ala	Glu	185	Thr	Ser	Ala	Lys	Asp	190	Lys	Thr	Ala
Ser	Phe	Leu	195	Tyr	Ala	Leu	Gly	Trp	200	Thr	Gln	His	Ser	Ile	205	Gly	Ala	Gln
Asn	Ile	Arg	210	Thr	Met	Ala	Met	Val	215	Gln	Leu	Leu	Leu	Gly	Asn	Met	Gly	240
Met	Ala	Gly	225	Gly	Gly	Val	Asn	Ala	230	Leu	Arg	Gly	His	Ser	Asn	Ile	Gln	255
Gly	Leu	Thr	260	Asp	Leu	Gly	Leu	Leu	265	Ser	Gln	Ser	Leu	Thr	Gly	Tyr	Met	270
Asn	Leu	Pro	275	Ser	Glu	Lys	Gln	Thr	280	Asp	Leu	Gln	Thr	Tyr	Leu	Thr	Ala	285
Ser	Thr	Pro	290	Lys	Pro	Leu	Leu	Glu	295	Gly	Gln	Val	Asn	Tyr	Trp	Gly	Asn	300
Tyr	Pro	Lys	305	Phe	Phe	Val	Ser	Leu	310	Met	Lys	Ala	Ala	Phe	Tyr	Gly	Asp	Lys
Ala	Thr	Ala	325	Glu	Asn	Ser	Trp	Gly	330	Phe	Asp	Trp	Leu	Pro	Lys	Trp	Asp	320
Lys	Gly	Tyr	340	Asp	Val	Leu	Gln	Tyr	345	Phe	Glu	Met	Met	His	Gln	Gly	Gln	350
Val	Asn	Gly	355	Tyr	Ile	Cys	Gln	Gly	360	Phe	Asn	Pro	Val	Ala	Ser	Phe	Pro	365
Asn	Lys	Asn	370	Lys	Val	Val	Glu	Ser	375	Leu	Ser	Lys	Leu	Lys	Phe	Leu	Val	380
Thr	Ile	Asp	385	Pro	Leu	Asn	Thr	Glu	390	Thr	Ser	Thr	Phe	Trp	Gln	Asn	His	400
Gly	Glu	Ser	405	Asn	Asp	Val	Asp	Pro	410	Ser	Lys	Ile	Gln	Thr	Glu	Val	Phe	415
Arg	Leu	Pro	420	Ser	Thr	Cys	Phe	Ala	425	Glu	Gln	Asn	Gly	Ser	Ile	Val	Asn	430
Ser	Gly	Arg	435	Trp	Leu	Gln	Trp	His	440	Trp	Lys	Gly	Ala	Asp	Ala	Pro	Gly	445
Ile	Ala	Leu	450	Asn	Asp	Gly	Glu	Ile	455	Leu	Ala	Gly	Ile	Phe	Leu	Arg	Leu	460
Arg	Lys	Met	465	Tyr	Ala	Ser	Glu	Gly	470	Gly	Ala	Thr	Pro	Glu	Pro	Val	Leu	475
Asn	Met	Thr	485	Trp	Asn	Tyr	Ser	Thr	490	Pro	Glu	Asn	Pro	Ala	Pro	Glu	Glu	495
Val	Ala	Met	500	Glu	Ser	Asn	Gly	Lys	505	Ala	Leu	Ala	Asp	Val	Ile	Asp	Pro	510
Ala	Thr	Gly	515	Ala	Val	Leu	Ala	Lys	520	Lys	Gly	Asp	Gln	Leu	Ser	Thr	Phe	525
Ala	His	Leu	530	Arg	Asp	Asp	Gly	Thr	535	Thr	Ser	Ser	Gly	Cys	Trp	Ile	Phe	540
Ala	Gly	Ser	545	Trp	Thr	Pro	Lys	Gly	550	Gln	Met	Ala	Asn	Arg	Asp	Asn	555	560
Ala	Asp	Pro	565	Ser	Gly	Leu	Gly	Asn	570	Thr	Leu	Gly	Trp	Ala	Trp	Ala	575	580
Pro	Leu	Asn	585	Arg	Ile	Leu	Tyr	Asn	590	Arg	Ala	Ser	Ala	Asp	Pro	Gln	595	600
Gly	Asn	Pro	605	Trp	Asp	Pro	Lys	Arg	610	Gln	Leu	Leu	Lys	Trp	Asp	Gly	Ala	615
Lys	Trp	Gly	620	Gly	Val	Asp	Ile	Pro	625	Asp	Tyr	Ser	Thr	Ala	Ala	Pro	Gly	630
Ser	Asp	Val	635	Gly	Pro	Phe	Ile	Met	640	Gln	Pro	Glu	Gly	Met	Arg	Lys	Leu	645
Phe	Ala	Ile	650	Asp	Lys	Met	Ala	Glu	655	Gly	Pro	Phe	Pro	Glu	His	Tyr	Glu	660
Pro	Phe	Glu	665	Thr	Pro	Leu	Gly	Thr	670	Asn	Pro	Leu	His	Pro	Asn	Val	Val	675

Ser Asn Pro Ala Ala Arg Ile Phe Lys Gly Asp Phe Glu Ala Leu Gly
 675 680 685
 Lys Lys Asp Lys Phe Pro Tyr Val Gly Thr Thr Tyr Arg Leu Thr Glu
 690 695 700
 His Phe His Tyr Trp Thr Lys His Ala Leu Leu Asn Ala Ile Ala Gln
 705 710 715 720
 Pro Glu Gln Phe Val Glu Ile Gly Glu Lys Leu Ala Asn Lys Leu Gly
 725 730 735
 Ile Ala His Gly Asp Thr Val Lys Val Ser Ser Asn Arg Gly Tyr Ile
 740 745 750
 Lys Ala Lys Ala Val Val Thr Lys Arg Ile Arg Thr Leu Asn Val His
 755 760 765
 Gly Gln Gln Val Asp Thr Ile Gly Ile Pro Ile His Trp Gly Tyr Glu
 770 775 780
 Gly Val Ala Lys Lys Gly Phe Ile Ala Asn Thr Leu Thr Pro Phe Val
 785 790 795 800
 Gly Asp Ala Asn Thr Gln Thr Pro Glu Phe Lys Ala Phe Leu Val Asn
 805 810 815
 Val Glu Lys Val
 820

<210> 9987

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 9987

Arg Arg Arg Leu Met Ala Tyr Gln Ser Gln Asp Ile Ile Arg Arg Ser
 1 5 10 15
 Ala Thr Asn Gly Phe Thr Pro Ala Pro Gln Ala Arg Asp His Gln Gln
 20 25 30
 Glu Val Ala Lys Leu Ile Asp Val Thr Thr Cys Ile Gly Cys Lys Ala
 35 40 45
 Cys Gln Val Ala Cys Ser Glu Trp Asn Asp Ile Arg Asp Glu Val Gly
 50 55 60
 His Asn Val Gly Val Tyr Asp Asn Pro Ala Asp Leu Thr Ala Lys Ser
 65 70 75 80
 Trp Thr Val Met Arg Phe Ser Glu Val Glu Gln Asn Asp Lys Leu Glu
 85 90 95
 Trp Leu Ile Arg Lys Asp Gly Cys Met His Cys Ala Asp Pro Gly Cys
 100 105 110
 Leu Lys Ala Cys Pro Ser Glu Gly Ala Ile Ile Gln Tyr Ala Asn Gly
 115 120 125
 Ile Val Asp Phe Gln Ser Glu Gln Cys Ile Gly Cys Gly Tyr Cys Ile
 130 135 140
 Ala Gly Cys Pro Phe Asp Val Pro Arg Met Asn Pro Glu Asp Asn Arg
 145 150 155 160
 Val Tyr Lys Cys Thr Leu Cys Val Asp Arg Val Asn Val Gly Gln Glu
 165 170 175
 Pro Ala Cys Val Lys Thr Cys Pro Thr Gly Ala Ile His Phe Gly Ser
 180 185 190
 Lys Glu Asp Met Lys Thr Leu Ala Ala Glu Arg Val Gly Glu Leu Lys
 195 200 205
 Thr Arg Gly Tyr Asp Asn Ala Gly Leu Tyr Asp Pro Ala Gly Val Gly
 210 215 220
 Gly Thr His Val Met Tyr Val Leu His His Ala Asp Lys Pro Asn Leu
 225 230 235 240
 Tyr His Gly Leu Pro Glu Asn Pro Glu Ile Ser Ala Thr Val Lys Phe
 245 250 255
 Trp Lys Gly Ile Trp Lys Pro Leu Ala Val Gly Phe Ala Ala Thr
 260 265 270

Phe Ala Ala Ser Ile Phe His Tyr Val Gly Val Gly Pro Asn Arg Ala
 275 280 285
 Glu Glu Glu Asp Asp Asn Leu His Glu Glu Lys Asp Glu Val Arg Lys
 290 295 300

305

<210> 9988

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 9988

Gly Met Thr Met Tyr Thr Leu Lys Asp Ile Thr Arg Pro Ser Gly Gly
 1 5 10 15
 Phe Ala Met Leu Ala Val Asp Gln Arg Glu Ala Met Arg Leu Met Phe
 20 25 30
 Ala Ala Ala Gly Ala Pro Val Pro Val Thr Asp Gln His Leu Thr Asp
 35 40 45
 Phe Lys Val Asn Ala Ala Lys Ile Leu Ser Pro Tyr Ala Ser Ala Ile
 50 55 60
 Leu Val Asp Gln Gln Phe Cys Tyr Arg Gln Ile Val Gly Gln Gln Ala
 65 70 75 80
 Val Ala Lys Ser Cys Ala Met Ile Val Ala Ala Asp Glu Phe Ile Pro
 85 90 95
 Gly Asn Gly Ile Pro Val Asp Ser Val Ala Ile Asp Lys Asn Val Asp
 100 105 110
 Ala Gln Ala Val Lys Arg Asp Gly Gly Lys Ala Leu Lys Leu Leu Val
 115 120 125
 Leu Trp Arg Ser Asp Glu Asp Pro Gln Gln Arg Leu Glu Met Val Lys
 130 135 140
 Ala Phe Asn Thr Leu Cys His Asp Asn Gly Leu Leu Ser Ile Ile Glu
 145 150 155 160
 Pro Val Val Arg Pro Pro Arg Arg Gly Ala Ala Phe Asn Arg Glu Gln
 165 170 175
 Ala Ile Ile Asp Ala Ala Lys Glu Leu Gly Asp Ser Gly Ala Asp Leu
 180 185 190
 Tyr Lys Val Glu Met Pro Leu Phe Gly Lys Gly Thr Gln Gln Glu Leu
 195 200 205
 Leu Ala Ala Ser Gln Lys Leu Asn Glu Asn Ile Ala Met Pro Trp Val
 210 215 220
 Ile Leu Ser Ser Gly Val Asp Asp Lys Leu Phe Pro Arg Ala Val Ser
 225 230 235 240
 Val Ala Met Gln Ala Gly Ala Ser Gly Phe Leu Ala Gly Arg Ala Val
 245 250 255
 Trp Ser Ser Val Ile Gly Leu Pro Asp Thr Glu Leu Met Leu Arg Asp
 260 265 270
 Ile Ser Val Pro Lys Leu Gln Arg Leu Gly Glu Ile Val Asp Glu Met
 275 280 285
 Met Ala Arg Arg
 290

<210> 9989

<211> 679

<212> PRT

<213> Enterobacter cloacae

<400> 9989

Asp Gly Val Phe Met Arg Thr Leu His Asn Ile Asp Leu Lys Asn Asn
 1 5 10 15
 Glu Ser Gly Phe Thr Leu Arg Trp Gln Asp Arg Leu Ile Leu Ser His

20										25					30				
Thr	Ala	Asp	Ala	Pro	Cys	Leu	Trp	40	25	Ile	Gly	Ala	Gly	Glu	Ala	Asp	Ile		
Glu	Met	Phe	Arg	Gly	Asn	Phe	Ser	55	15	Lys	Asp	Lys	60	Leu	Asn	Glu	Lys		
50																			
Ile	Ala	Leu	Thr	Asn	Ala	Thr	Val	70	20	Thr	Gln	Gln	75	Ala	Gly	Trp	Ala		
65																			
Ile	Arg	Phe	Thr	Arg	Gly	Asp	Ala	85	25	Val	Ser	Ala	90	Leu	Leu	Val	Gly		
Val	Asp	Ala	Glu	Gly	Arg	Leu	Glu	100	30	Leu	Lys	Leu	105	Asn	Asp	Ala	Pro		
Gly	His	Asn	Arg	Ile	Trp	Leu	Arg	115	35	Leu	Ala	Ala	120	Gln	Pro	Glu	Asp	His	
Ile	Tyr	Gly	Cys	Gly	Glu	Gln	Phe	130	40	Ser	Tyr	Phe	135	Asp	Leu	Arg	Gly	Lys	
Pro	Phe	Pro	Leu	Trp	Thr	Ser	Glu	145	45	Gln	Gly	Val	150	Arg	Asn	Lys	Gln		
Thr	Tyr	Val	Thr	Trp	Gln	Ala	Asp	155	50	Cys	Lys	Glu	160	Asn	Ala	Gly	Asp		
Tyr	Tyr	Trp	Thr	Phe	Phe	Pro	Gln	165	55	Pro	Thr	Phe	170	Val	Ser	Thr	Gln	Lys	
Tyr	Tyr	Cys	His	Val	Asp	Asn	Ser	180	60	Ser	Cys	Met	185	Asn	Phe	Asp	Phe	Ser	
Ala	Pro	Asp	Phe	His	Glu	Leu	Ala	195	65	Phe	Trp	Glu	200	Asn	Ala	Thr	Leu		
Arg	Phe	Glu	Cys	Ala	Glu	Thr	Tyr	210	70	Val	Asp	Leu	215	Leu	Glu	Lys	Leu	Thr	
225																			
Gly	Leu	Leu	Gly	Arg	Gln	Pro	Glu	230	75	Leu	Pro	Asp	235	Trp	Val	Tyr	Asp	Gly	
Val	Thr	Leu	Gly	Ile	Gln	Gly	Gly	245	80	Thr	Glu	Val	250	Cys	Gln	Gln	Lys	Leu	
Asp	Thr	Met	Arg	Asn	Gly	Gly	Val	260	85	Lys	Val	Asn	265	Gly	Ile	Trp	Ala	Gln	
Asp	Trp	Ser	Gly	Ile	Arg	Met	Thr	275	90	Phe	Gly	Lys	280	Lys	Arg	Val	Met	Trp	
Asn	Trp	Lys	Trp	Asn	Ser	Ala	Leu	290	95	Tyr	Pro	Gln	295	Leu	Asp	Thr	Arg	Ile	
305																			

Glu Met Lys Arg Ser Lys Glu Leu Leu Leu Arg Trp Cys Asp Phe Ser
 515 520 525
 Ala Phe Thr Pro Met Met Arg Thr His Glu Gly Asn Arg Pro Gly Asp
 530 535 540
 Asn Trp Gln Phe Asp Gly Asp Ala Glu Thr Ile Ala His Phe Ala Arg
 545 550 555 560
 Met Thr Thr Val Phe Thr Thr Leu Lys Pro Tyr Thr Lys Ala Ala Val
 565 570 575
 Ala Gln Asn Ala Lys Ser Gly Leu Pro Val Met Arg Pro Leu Phe Leu
 580 585 590
 His Tyr Glu Asp Asp Ala Arg Ala Tyr Thr Leu Lys Tyr Gln Tyr Leu
 595 600 605
 Phe Gly Arg Asp Leu Leu Val Ala Pro Val His Glu Lys Gly Arg Arg
 610 615 620
 Asp Trp Ser Leu Tyr Leu Pro Gln Asp Thr Trp Val Asn Ala Trp Thr
 625 630 635 640
 Gly Glu Thr Cys Gln Gly Gly Asp Ile Thr Val Asp Ala Pro Leu Gly
 645 650 655
 Lys Pro Pro Val Phe Tyr Arg Gln Gln Ser Glu Trp Ala Asp Leu Phe
 660 665 670
 Ser Thr Leu Arg His Ile
 675

<210> 9990

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 9990

Gly Ser Pro Ala Gly Lys Pro Ala Gly Arg Arg Thr Ile Met Ser
 1 5 10 15
 Gln His Thr Ser Asp Pro Ala Thr Leu Arg Leu Pro Phe Lys Glu Lys
 20 25 30
 Leu Ala Tyr Gly Met Gly Asp Leu Gly Ser Asn Ile Leu Leu Asp Ile
 35 40 45
 Gly Thr Leu Tyr Leu Leu Lys Phe Tyr Thr Asp Val Leu Gly Leu Pro
 50 55 60
 Gly Thr Tyr Gly Gly Ile Ile Phe Leu Ile Ala Lys Phe Phe Thr Ala
 65 70 75 80
 Phe Thr Asp Met Gly Thr Gly Ile Met Leu Asp Ser Arg Arg Lys Ile
 85 90 95
 Gly Pro Lys Gly Lys Phe Arg Pro Phe Val Leu Tyr Ala Ala Phe Pro
 100 105 110
 Val Thr Leu Leu Ala Ile Ala Asn Phe Val Gly Thr Pro Phe Glu Ile
 115 120 125
 Thr Gly Lys Thr Val Met Ala Thr Val Leu Phe Met Leu Tyr Gly Leu
 130 135 140
 Phe Phe Ser Met Met Asn Cys Ser Tyr Gly Ala Met Val Pro Ala Ile
 145 150 155 160
 Thr Lys Asn Pro Asp Glu Arg Ala Ser Leu Ala Ala Trp Arg Gln Gly
 165 170 175
 Gly Ala Thr Leu Gly Leu Leu Leu Cys Thr Val Gly Phe Val Pro Val
 180 185 190
 Met Asn Leu Ile Glu Gly Asn Asp Gln Leu Gly Tyr Ile Phe Ala Ala
 195 200 205
 Thr Leu Phe Ser Leu Phe Gly Leu Phe Phe Met Trp Trp Cys Tyr Lys
 210 215 220
 Gly Val Thr Glu Arg Tyr Val Glu Thr Gln Pro Ala Asn Pro Ala Gln
 225 230 235 240
 Lys Pro Gly Leu Leu Gln Ser Phe Arg Ala Ile Ala Gly Asn Arg Pro
 245 250 255

Leu Phe Ile Leu Cys Ile Ala Asn Leu Cys Thr Leu Gly Ala Phe Asn
 260 265 270
 Val Lys Leu Ala Ile Gln Val Tyr Tyr Thr Gln Tyr Val Leu Asn Asp
 275 280 285
 Pro Ile Leu Leu Ser Tyr Met Gly Phe Phe Ser Met Gly Cys Ile Phe
 290 295 300
 Ile Gly Val Phe Met Met Pro Gly Ala Val Arg Arg Phe Gly Lys Lys
 305 310 315 320
 Lys Val Tyr Ile Ser Gly Leu Met Ile Trp Val Ala Gly Asp Leu Leu
 325 330 335
 Asn Tyr Phe Phe Gly Gly Gly Ser Val Ser Phe Val Ala Phe Ser Cys
 340 345 350
 Leu Ala Phe Phe Gly Ser Ala Phe Val Asn Ser Leu Asn Trp Ala Leu
 355 360 365
 Val Ser Asp Thr Val Glu Tyr Gly Glu Trp Arg Thr Gly Val Arg Ser
 370 375 380
 Glu Gly Thr Val Tyr Thr Gly Phe Thr Phe Phe Arg Lys Val Ser Gln
 385 390 395 400
 Ala Leu Ala Gly Phe Phe Pro Gly Ile Met Leu Thr Gln Ile Gly Tyr
 405 410 415
 Val Pro Asn Val Val Gln Ser Ala Gly Thr Val Glu Gly Leu Arg Gln
 420 425 430
 Leu Ile Phe Ile Tyr Pro Ser Leu Leu Ala Val Ile Thr Ile Val Ala
 435 440 445
 Met Gly Cys Phe Tyr Asn Leu Asn Glu Lys Met Tyr Val Arg Ile Val
 450 455 460
 Glu Glu Ile Glu Leu Arg Lys Arg Thr Ala
 465 470 475

<210> 9991

<211> 261

<212> PRT

<213> *Enterobacter cloacae*

<400> 9991

Ser Val Ser Ser His Phe Ile Thr Ile Asn Pro Ala Thr Met Ser Phe
 1 5 10 15
 Leu Phe Ile Arg Arg Glu Ala Phe Leu Tyr Leu Ile His Gly Gln Ile
 20 25 30
 Met Lys Arg Ile Ile Thr Val Leu Ile Val Ser Ser Val Ser Cys Pro
 35 40 45
 Val Phe Ala Gly Ala Tyr Val Glu Thr Arg Glu Ala Tyr Asn Thr Ala
 50 55 60
 Ser Glu Leu His Glu Val Ile Leu Arg Ala Gly Tyr Asn Phe Asp Met
 65 70 75 80
 Gly Ala Gly Leu Met Phe Thr Asn Ala Tyr Asn Val Gly Lys Trp Asp
 85 90 95
 Glu Leu Lys His Ser Tyr Asn Glu Ile Glu Gly Trp Tyr Pro Leu Phe
 100 105 110
 Lys Pro Thr Asp Lys Leu Thr Phe Gln Pro Gly Gly Leu Ile Asn Asp
 115 120 125
 Ser Ser Ala Gly Ser Gly Gly Ala Val Tyr Leu Asp Thr Asn Tyr Lys
 130 135 140
 Phe Thr Asp Trp Phe Asn Leu Thr Phe Arg Tyr Arg Tyr Asn His Asn
 145 150 155 160
 Asn Tyr Asp Thr Pro Asp Tyr Asn Gly Gln Met Asp Lys Asn Asp Thr
 165 170 175
 His Glu Phe Ala Asn Tyr Trp Asn Phe Lys Val Thr Asp Ala Phe Phe
 180 185 190
 Tyr Thr Phe Glu Pro His Phe Phe Gln Arg Val Asn Asp Tyr His Ser
 195 200 205

Lys Asn Gly Lys Asp His His Trp Glu Ile Thr Asn Lys Phe Ser Tyr
 210 215 220
 Lys Ile Asp Arg Asn Trp Leu Pro Tyr Leu Glu Leu Gln Trp Leu Asp
 225 230 235 240
 Arg Trp Asn Asp Tyr Asn Arg Glu Gln Tyr Arg Ile Arg Leu Gly Leu
 245 250 255
 Arg Tyr Ser Phe
 260

<210> 9992

<211> 485

<212> PRT

<213> Enterobacter cloacae

<400> 9992

Arg Pro Arg Tyr His Asp Asp Asn Asp Gln Ser Gly Glu Leu Ser Met
 1 5 10 15
 Ser Ala Glu His Val Leu Thr Met Leu Asn Glu His Glu Val Lys Phe
 20 25 30
 Val Asp Leu Arg Phe Thr Asp Thr Lys Gly Lys Glu Gln His Val Thr
 35 40 45
 Ile Pro Ala His Gln Val Asn Ala Glu Phe Phe Glu Glu Gly Lys Met
 50 55 60
 Phe Asp Gly Ser Ser Ile Gly Gly Trp Lys Gly Ile Asn Glu Ser Asp
 65 70 75 80
 Met Val Leu Met Pro Asp Ala Thr Thr Ala Leu Ile Asp Pro Phe Tyr
 85 90 95
 Glu Glu Pro Thr Leu Ile Ile Arg Cys Asp Ile Leu Glu Pro Gly Thr
 100 105 110
 Leu Gln Gly Tyr Asp Arg Asp Pro Arg Ser Ile Ala Lys Arg Ala Glu
 115 120 125
 Glu Tyr Leu Arg Ser Thr Gly Ile Ala Asp Thr Val Leu Phe Gly Pro
 130 135 140
 Glu Pro Glu Phe Phe Leu Phe Asp Asp Ile Arg Phe Gly Ala Ser Ile
 145 150 155 160
 Ser Gly Ser His Val Ala Ile Asp Asp Ile Glu Gly Ala Trp Asn Ser
 165 170 175
 Ser Thr Lys Tyr Glu Gly Gly Asn Lys Gly His Arg Pro Gly Val Lys
 180 185 190
 Gly Gly Tyr Phe Pro Val Pro Pro Val Asp Ser Ser Gln Asp Ile Arg
 195 200 205
 Ser Thr Met Cys Leu Ile Met Glu Glu Met Gly Leu Val Val Glu Ala
 210 215 220
 His His His Glu Val Ala Thr Ala Gly Gln Asn Glu Ile Ala Thr Arg
 225 230 235 240
 Phe Asn Thr Met Thr Lys Lys Ala Asp Glu Ile Gln Ile Tyr Lys Tyr
 245 250 255
 Val Val His Asn Val Ala His Arg Phe Gly Lys Thr Ala Thr Phe Met
 260 265 270
 Pro Lys Pro Met Phe Gly Asp Asn Gly Ser Gly Met His Cys His Met
 275 280 285
 Ser Leu Ser Lys Asn Gly Thr Asn Leu Phe Ser Gly Asp Lys Tyr Ala
 290 295 300
 Gly Leu Ser Glu Gln Ala Leu His Tyr Ile Gly Gly Val Ile Lys His
 305 310 315 320
 Ala Lys Ala Ile Asn Ala Leu Ala Asn Pro Thr Thr Asn Ser Tyr Lys
 325 330 335
 Arg Leu Val Pro Gly Tyr Glu Ala Pro Val Met Leu Ala Tyr Ser Ala
 340 345 350
 Arg Asn Arg Ser Ala Ser Ile Arg Ile Pro Val Val Ala Ser Pro Lys
 355 360 365

Ala Arg Arg Ile Glu Val Arg Phe Pro Asp Pro Ala Ala Asn Pro Tyr
 370 375 380
 Leu Cys Phe Ala Ala Leu Leu Met Ala Gly Leu Asp Gly Ile Lys Asn
 385 390 400
 Lys Ile His Pro Gly Glu Ala Met Asp Lys Asn Leu Tyr Asp Leu Pro
 405 410 415
 Pro Glu Glu Ala Lys Glu Ile Pro Gln Val Ala Gly Ser Leu Glu Glu
 420 425 430
 Ala Leu Gln Ala Leu Asp Ala Asp Arg Glu Phe Leu Thr Ala Gly Gly
 435 440 445
 Val Phe Thr Asp Glu Ala Ile Asp Ala Tyr Ile Ala Leu Arg Thr Glu
 450 455 460
 Glu Asn Asp Arg Val Arg Met Thr Pro His Pro Val Glu Phe Glu Leu
 465 470 475 480
 Tyr Tyr Ser Val
 485

<210> 9993

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 9993

Ile Thr Met Thr Asp Ile Ser Arg Thr Gln Ala Trp Leu Glu Ser Leu
 1 5 10 15
 Arg Pro Lys Thr Leu Pro Leu Ala Phe Ala Ala Ile Ile Val Gly Thr
 20 25 30
 Thr Leu Ala Trp Trp Gln Gly His Phe Asp Pro Leu Val Ala Gly Leu
 35 40 45
 Ala Leu Val Thr Ala Gly Leu Leu Gln Ile Leu Ser Asn Leu Ala Asn
 50 55 60
 Asp Tyr Gly Asp Ala Val Lys Gly Ser Asp Lys Pro Asp Arg Ile Gly
 65 70 75 80
 Pro Leu Arg Gly Met Gln Lys Gly Val Ile Thr Gln Ala Gln Met Lys
 85 90 95
 Arg Ala Leu Ile Ile Thr Val Val Leu Ile Cys Leu Ser Gly Leu Ala
 100 105 110
 Leu Val Thr Val Ala Ser Lys Thr Thr Ser Asp Phe Ile Gly Phe Leu
 115 120 125
 Val Leu Gly Leu Leu Ala Ile Ile Ala Ala Ile Thr Tyr Thr Val Gly
 130 135 140
 Thr Arg Pro Tyr Gly Tyr Ile Gly Leu Gly Asp Ile Ser Val Leu Val
 145 150 155 160
 Phe Phe Gly Trp Leu Ser Val Met Gly Ser Trp Tyr Leu Gln Ala His
 165 170 175
 Thr Val Ile Pro Ala Leu Phe Leu Pro Ala Thr Ala Cys Gly Leu Leu
 180 185 190
 Ala Thr Ala Val Leu Asn Ile Asn Asn Leu Arg Asp Ile Asp Ser Asp
 195 200 205
 Arg Glu Asn Gly Lys Asn Thr Leu Ala Val Arg Leu Gly Pro Val Asn
 210 215 220
 Ala Arg Arg Tyr His Ala Phe Leu Leu Ile Gly Ala Leu Val Cys Leu
 225 230 235 240
 Ala Leu Phe Asn Leu Ile Ser Leu His Gly Leu Trp Gly Trp Leu Phe
 245 250 255
 Val Leu Ala Ala Pro Leu Leu Ile Lys Gln Ala Arg Tyr Val Met Arg
 260 265 270
 Glu Leu Ser Pro Ala Ala Met Pro Pro Met Leu Glu Arg Thr Val Lys
 275 280 285
 Gly Ala Leu Leu Thr Asn Leu Leu Phe Val Ile Gly Ile Val Leu Ser
 290 295 300

Gln Thr Leu Ser
305

<210> 9994

<211> 291

<212> PRT

<213> *Enterobacter cloacae*

<400> 9994

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Thr Leu Leu Phe Cys Arg Ile Pro Ile Met Ser Gln Thr Ser Thr Leu
1      5      10      15
Lys Gly Gln Cys Ile Ala Glu Phe Leu Gly Thr Gly Leu Leu Ile Phe
20      25      30
Phe Gly Val Gly Cys Val Ala Ala Leu Lys Val Ala Gly Ala Ser Phe
35      40      45
Gly Gln Trp Glu Ile Ser Ile Ile Trp Gly Leu Gly Val Ala Met Ala
50      55      60
Ile Tyr Leu Thr Ala Gly Val Ser Gly Ala His Leu Asn Pro Ala Val
65      70      75      80
Thr Ile Ala Leu Trp Leu Phe Ala Cys Phe Asp Gly Arg Lys Val Val
85      90      95
Pro Phe Ile Ile Ser Gln Phe Ala Gly Ala Phe Cys Ala Ala Leu
100      105      110
Val Tyr Gly Leu Tyr Tyr Asn Leu Phe Ile Asp Phe Glu Gln Thr His
115      120      125
His Met Val Arg Gly Ser Val Glu Ser Leu Asp Leu Ala Gly Ile Phe
130      135      140
Ser Thr Tyr Pro Asn Pro His Ile Asn Phe Val Gln Ala Phe Ala Val
145      150      155      160
Glu Met Val Ile Thr Ala Ile Leu Met Gly Val Ile Met Ala Leu Gly
165      170      175
Asp Asp Gly Asn Gly Ile Pro Arg Gly Pro Leu Ala Pro Leu Leu Ile
180      185      190
Gly Leu Leu Ile Ala Val Ile Gly Ala Ser Met Gly Pro Leu Thr Gly
195      200      205
Phe Ala Met Asn Pro Ala Arg Asp Leu Gly Pro Lys Thr Phe Ala Phe
210      215      220
Phe Ala Gly Trp Gly Asp Val Ala Phe Thr Gly Gly Lys Asp Ile Pro
225      230      235      240
Tyr Phe Leu Val Pro Leu Phe Gly Pro Ile Val Gly Ala Ala Leu Gly
245      250      255
Ala Phe Gly Tyr Arg Lys Leu Ile Gly Arg His Leu Pro Cys Asp Thr
260      265      270
Cys Val Glu Glu Glu Lys Glu Thr Thr Ser Thr Thr Gln Gln Lys Ala
275      280      285
Ser Leu
290

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<210> 9995

<211> 510

<212> PRT

<213> *Enterobacter cloacae*

<400> 9995

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Ser Asp Tyr Gly Thr His Thr Met Thr Glu Lys Lys Tyr Ile Val Ala
1      5      10      15
Leu Asp Gln Gly Thr Thr Ser Ser Arg Ala Val Val Met Asp His Asp
20      25      30
Ala Asn Ile Val Ser Val Ser Gln Arg Glu Phe Glu Gln Ile Tyr Pro
35      40      45
Arg Pro Gly Trp Val Glu His Asp Pro Met Glu Ile Trp Ala Ser Gln

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50					55					60					
Ser	Ser	Thr	Leu	Val	Glu	Val	Leu	Ala	Lys	Ala	Asp	Ile	Ser	Ser	Asp
65					70					75					80
Gln	Ile	Ala	Ala	Ile	Gly	Ile	Thr	Asn	Gln	Arg	Glu	Thr	Thr	Val	Val
				85					90					95	
Trp	Glu	Arg	Glu	Thr	Gly	Lys	Pro	Ile	Tyr	Asn	Ala	Ile	Val	Trp	Gln
			100					105					110		
Cys	Arg	Arg	Thr	Ser	Glu	Ile	Cys	Glu	Gln	Leu	Lys	Arg	Asp	Gly	Met
			115				120					125			
Glu	Glu	Tyr	Val	Arg	Ser	Ala	Thr	Gly	Leu	Val	Val	Asp	Pro	Tyr	Phe
	130					135					140				
Ser	Gly	Thr	Lys	Val	Lys	Trp	Ile	Leu	Asp	His	Val	Glu	Gly	Ser	Arg
	145					150					155				160
Glu	Arg	Ala	Arg	Arg	Gly	Glu	Leu	Leu	Phe	Gly	Thr	Val	Asp	Thr	Trp
				165					170					175	
Leu	Ile	Trp	Lys	Met	Thr	Gln	Gly	Arg	Val	His	Val	Thr	Asp	Tyr	Thr
			180					185					190		
Asn	Ala	Ser	Arg	Thr	Met	Leu	Phe	Asn	Ile	Asn	Thr	Leu	Glu	Trp	Asp
			195				200					205			
Asp	Lys	Met	Leu	Asp	Ala	Leu	Asp	Ile	Pro	Arg	Ala	Met	Leu	Pro	Asp
	210					215					220				
Val	Arg	Lys	Ser	Ser	Glu	Val	Tyr	Gly	Gln	Thr	Asn	Ile	Gly	Gly	Lys
	225					230					235				240
Gly	Gly	Thr	Arg	Ile	Pro	Ile	Ala	Gly	Ile	Ala	Gly	Asp	Gln	Gln	Ala
				245					250					255	
Ala	Leu	Phe	Gly	Gln	Leu	Cys	Val	Lys	Glu	Gly	Met	Ala	Lys	Asn	Thr
			260					265					270		
Tyr	Gly	Thr	Gly	Cys	Phe	Met	Leu	Met	Asn	Thr	Gly	Glu	Lys	Ala	Val
			275				280					285			
Lys	Ser	Glu	Asn	Gly	Leu	Leu	Thr	Thr	Ile	Ala	Cys	Gly	Pro	Arg	Gly
	290					295					300				
Glu	Val	Asn	Tyr	Ala	Leu	Glu	Gly	Ala	Val	Phe	Met	Ala	Gly	Ala	Ser
				310							315				320
Ile	Gln	Trp	Leu	Arg	Asp	Glu	Met	Lys	Leu	Ile	Ser	Asp	Ala	Phe	Asp
				325					330					335	
Ser	Glu	Tyr	Phe	Ala	Thr	Lys	Val	Lys	Asp	Thr	Asn	Gly	Val	Tyr	Val
			340					345					350		
Val	Pro	Ala	Phe	Thr	Gly	Leu	Gly	Ala	Pro	Tyr	Trp	Asp	Pro	Tyr	Ala
			355				360					365			
Arg	Gly	Ala	Ile	Phe	Gly	Leu	Thr	Arg	Gly	Val	Asn	Ser	Asn	His	Ile
	370					375					380				
Ile	Arg	Ala	Thr	Leu	Glu	Ser	Ile	Ala	Tyr	Gln	Thr	Arg	Asp	Val	Leu
				390					395					400	
Glu	Ala	Met	Gln	Ala	Asp	Ser	Gly	Ile	Arg	Leu	His	Ala	Leu	Arg	Val
				405				410						415	
Asp	Gly	Gly	Ala	Val	Ala	Asn	Asn	Phe	Leu	Met	Gln	Phe	Gln	Ser	Asp
			420					425					430		
Ile	Leu	Gly	Thr	Arg	Val	Glu	Arg	Pro	Glu	Val	Arg	Glu	Val	Thr	Ala
			435				440					445			
Leu	Gly	Ala	Ala	Tyr	Leu	Ala	Gly	Leu	Ala	Val	Gly	Phe	Trp	Gln	Asn
	450					455					460				
Leu	Asp	Glu	Leu	Gln	Glu	Lys	Ala	Val	Ile	Glu	Arg	Glu	Phe	Arg	Pro
				470					475					480	
Gly	Ile	Glu	Thr	Thr	Glu	Arg	Asn	Tyr	Arg	Tyr	Ser	Gly	Trp	Lys	Lys
				485				490						495	
Ala	Val	Lys	Arg	Ala	Leu	Ala	Trp	Glu	Glu	His	Asp	Glu			
			500					505					510		

<210> 9996

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 9996

```

Leu Tyr Glu Tyr Leu Met Lys Arg Glu Leu Ala Ile Glu Phe Ser Arg
1      5      10      15
Val Thr Glu Ala Ala Leu Ala Gly Tyr Lys Trp Leu Gly Arg Gly
20      25      30
Asp Lys Asn Thr Ala Asp Gly Ala Ala Val His Ala Met Arg Ile Val
35      40      45
Leu Asn Gln Val Asn Ile Asp Gly Thr Ile Val Ile Gly Glu Gly Glu
50      55      60
Ile Asp Glu Ala Pro Met Leu Tyr Ile Gly Glu Lys Val Gly Thr Gly
65      70      75      80
Lys Gly Asp Ala Val Asp Ile Ala Val Asp Pro Ile Glu Gly Thr Arg
85      90      95
Met Thr Ala Met Gly Gln Ala Asn Ala Leu Ala Val Leu Ala Val Gly
100      105      110
Asp Lys Gly Cys Phe Leu Asn Ala Pro Asp Met Tyr Met Glu Lys Leu
115      120      125
Ile Val Gly Pro Gly Ala Lys Gly Ala Ile Asp Leu Ser Leu Pro Leu
130      135      140
Asp Ala Asn Leu Arg Asn Ile Ala Ala Ala Leu Gly Lys Ala Leu Ser
145      150      155      160
Glu Leu Thr Val Thr Ile Leu Ala Lys Pro Arg His Asp Ala Thr Ile
165      170      175
Ala Tyr Leu Gln Thr Leu Gly Val Arg Val Phe Ala Ile Pro Asp Gly
180      185      190
Asp Val Ala Ala Ser Ile Leu Thr Cys Met Pro Asp Ser Glu Val Asp
195      200      205
Val Leu Tyr Gly Ile Gly Gly Ala Pro Glu Gly Val Val Ser Ala Ala
210      215      220
Val Ile Arg Ala Leu Asp Gly Asp Met Gln Ala Arg Leu Leu Pro Arg
225      230      235      240
His Glu Val Lys Gly Asp Ser Asp Glu Asn Leu Arg Ile Gly Ala Asp
245      250      255
Glu Leu Ala Arg Cys Ala Ala Met Gly Ile Glu Ala Asn Lys Val Leu
260      265      270
Ala Leu Asn Glu Met Ala Arg Ser Asp Asn Val Val Phe Ser Ala Thr
275      280      285
Gly Ile Thr Lys Gly Asp Leu Leu Asp Gly Ile Thr Arg Lys Gly Asn
290      295      300
Met Ala Thr Thr Glu Thr Leu Leu Ile Arg Gly Lys Ser Arg Thr Ile
305      310      315      320
Arg Arg Ile Lys Ser Ile His Tyr Leu Asp Arg Lys Asp Pro Asp Val
325      330      335
Gln Thr His Ile Leu
340

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<210> 9997

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 9997

```

Lys Arg Glu Thr Ala Gln Glu Lys Ile Met Ala Asp Trp Val Thr Gly
1      5      10      15
Lys Val Thr Lys Val Gln Phe Trp Thr Asp Ala Leu Phe Ser Leu Thr
20      25      30
Leu His Ala Pro Val His Pro Phe Thr Ala Gly Gln Phe Ala Lys Leu
35      40      45
Gly Leu Asp Ile Asp Gly Glu Arg Val Gln Arg Ala Tyr Ser Tyr Val

```

50		55		60
Asn Ala Pro Asp Asn Pro Asp Leu Glu Phe Tyr Leu Val Thr Val Pro				
65	70	75	80	
Asp Gly Lys Leu Ser Pro Arg Leu Ala Ala Leu Lys Pro Gly Asp Glu				
	85	90	95	
Val Gln Ile Val Ser Asp Ala Ala Gly Phe Phe Val Leu Asp Glu Ile				
	100	105	110	
Pro Asp Cys Asp Thr Leu Trp Met Leu Ala Thr Gly Thr Ala Ile Gly				
	115	120	125	
Pro Tyr Leu Ser Ile Leu Gln Tyr Gly Lys Asp Leu Glu Arg Phe Lys				
	130	135	140	
Asn Ile Val Leu Val His Ala Ala Arg Tyr Ala Ala Asp Leu Ser Tyr				
	145	150	155	160
Leu Pro Gln Met Gln Ala Leu Glu Gln Arg Tyr Gly Gly Lys Leu Lys				
	165	170	175	
Ile Gln Thr Val Val Ser Arg Glu Thr Ala Ala Gly Ser Leu Thr Gly				
	180	185	190	
Arg Val Pro Ala Leu Ile Glu Ser Gly Ala Leu Glu Glu Ala Val Gly				
	195	200	205	
Leu Pro Met Asn Thr Glu Thr Ser His Val Met Leu Cys Gly Asn Pro				
	210	215	220	
Gln Met Val Arg Asp Thr Gln Gln Leu Leu Lys Asp Thr Arg Gln Met				
	225	230	235	240
Thr Lys His Leu Arg Arg Pro Gly His Met Thr Ala Glu His Tyr				
	245	250	255	

Trp

<210> 9998

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 9998

Gly Ala Leu Arg Met Thr Thr Gln Leu Glu Gln Ala Trp Asp Leu Ala				
1	5	10	15	
Lys Gln Arg Phe Ala Ala Val Gly Val Asp Val Glu Glu Ala Leu Arg				
	20	25	30	
Gln Leu Asp Arg Leu Pro Val Ser Met His Cys Trp Gln Gly Asp Asp				
	35	40	45	
Val Ala Gly Phe Glu Asn Pro Gly Gly Ser Leu Thr Gly Gly Ile Gln				
	50	55	60	
Ala Thr Gly Asn Tyr Pro Gly Lys Ala Arg Asn Ala Thr Glu Leu Arg				
	65	70	75	80
Ala Asp Leu Glu Leu Ala Leu Ser Leu Ile Pro Gly Pro Lys Arg Leu				
	85	90	95	
Asn Leu His Ala Ile Tyr Leu Glu Ser Asp Glu Pro Val Ala Arg Asn				
	100	105	110	
Glu Ile Lys Pro Glu His Phe Thr Asn Trp Val Ala Trp Ala Lys Ala				
	115	120	125	
Asn Arg Leu Gly Leu Asp Phe Asn Pro Ser Cys Phe Ser His Pro Leu				
	130	135	140	
Ser Ala Asp Gly Phe Thr Leu Ala His Ala Asn Asp Glu Ile Arg Gln				
	145	150	155	160
Phe Trp Ile Asp His Val Lys Ala Ser Arg Arg Val Ser Ala Tyr Phe				
	165	170	175	
Gly Glu Gln Leu Gly Thr Pro Ser Val Met Asn Ile Trp Ile Pro Asp				
	180	185	190	
Gly Met Lys Asp Ile Thr Val Asp Arg Leu Ala Pro Arg Gln Arg Leu				
	195	200	205	

Leu Ala Ala Leu Asp Glu Ala Ile Ser Glu Lys Leu Asp Pro Ala His

```

      210              215              220
His Ile Asp Ala Val Glu Ser Lys Leu Phe Gly Ile Gly Ala Glu Ser
225              230              235              240
Tyr Thr Val Gly Ser Asn Glu Phe Tyr Met Gly Tyr Ala Thr Ser Arg
      245              250              255
Gln Thr Ala Leu Cys Leu Asp Ala Gly His Phe His Pro Thr Glu Val
      260              265              270
Ile Ser Asp Lys Ile Ser Ala Ala Met Leu Tyr Val Pro Arg Leu Leu
      275              280              285
Leu His Val Ser Arg Pro Val Arg Trp Asp Ser Asp His Val Val Leu
      290              295              300
Leu Asp Asp Glu Thr Gln Ala Ile Ala Ser Glu Ile Ile Arg His Asn
      305              310              315              320
Leu Phe Asp Arg Val His Ile Gly Leu Asp Phe Phe Asp Ala Ser Ile
      325              330              335
Asn Arg Ile Ala Ala Trp Val Ile Gly Thr Arg Asn Met Lys Lys Ala
      340              345              350
Leu Leu Arg Ala Leu Leu Glu Pro Val Ala Ala Leu Lys Gln Leu Glu
      355              360              365
Glu Asn Gly Asp Tyr Thr Ala Arg Leu Ala Leu Leu Glu Glu Gln Lys
      370              375              380
Ser Leu Pro Trp Gln Ala Val Trp Glu Met Tyr Cys Gln Arg His Asp
      385              390              395              400
Ala Pro Ala Gly Ser Gln Trp Leu Asp Asn Val Arg Ala Tyr Glu Lys
      405              410              415
Glu Val Leu Ala Ala Arg Gln
      420

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<210> 9999

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 9999

```

Lys Thr Ser Pro Gly Gly Ala Leu Leu Ala Gly Pro Thr Asp Lys Thr
1              5              10              15
Arg Pro Gly Lys Arg Asn Ala Thr Arg His Phe Gln Arg Asn Tyr Ser
      20              25              30
Met Gln Thr Ile Thr Thr Ser Trp Phe Val Gln Gly Met Ile Lys Ala
      35              40              45
Thr Ser Asp Ala Trp Leu Lys Gly Trp Asp Glu Arg Asn Gly Gly Asn
      50              55              60
Leu Thr Leu Arg Leu Asp Asp Ala Asp Ile Glu Pro Phe Ala Ser Asp
      65              70              75              80
Phe His Gln Lys Pro Arg Tyr Ile Ala Leu Ser Gln Pro Met Pro Leu
      85              90              95
Leu Ala Asn Thr Pro Phe Ile Val Thr Gly Ser Gly Lys Phe Phe Arg
      100              105              110
Asn Val Gln Leu Asp Pro Glu Ala Asn Leu Gly Val Val Lys Val Asp
      115              120              125
Ser Asp Gly Ala Gly Tyr His Ile Leu Trp Gly Leu Thr Asp Asp Ala
      130              135              140
Val Pro Thr Ser Glu Leu Pro Ala His Phe Leu Ser His Cys Glu Arg
      145              150              155              160
Ile Lys Ala Thr Asn Gly Lys Asp Arg Val Ile Met His Cys His Ala
      165              170              175
Thr Asn Leu Ile Ala Leu Thr Tyr Val Leu Glu Asn Asn Ser Asp Phe
      180              185              190
Phe Thr Arg Lys Leu Trp Glu Gly Ser Thr Glu Cys Leu Val Val Phe
      195              200              205
Pro Asp Gly Val Gly Ile Leu Pro Trp Met Val Pro Gly Thr Asp Glu

```

210 215 220
 Ile Gly Gln Ala Thr Ala Thr Asp Met Gln Lys His Ser Leu Val Leu
 225 230 235 240
 Trp Pro Phe His Gly Val Phe Gly Ser Gly Pro Thr Leu Asp Glu Thr
 245 250 255
 Phe Gly Leu Ile Asp Thr Ala Glu Lys Ser Ala Glu Val Leu Val Lys
 260 265 270
 Val Tyr Ser Met Gly Gly Met Lys Gln Thr Ile Thr Arg Glu Glu Leu
 275 280 285
 Ile Ala Leu Gly Lys Arg Phe Gly Val Thr Pro Met Gln Ser Ala Leu
 290 295 300
 Asp Leu Tyr Gln
 305

<210> 10000

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 10000

Ile Ala Gly Gly Gly Ser Leu Arg Asp Trp Arg Asp Gln His His Gly
 1 5 10 15
 Arg His Arg Pro Arg Ala Arg Leu Ser Val Arg Gly Ala Val Pro Trp
 20 25 30
 Arg His Gln Gln Arg Pro Ala Gly Asp Arg Arg Leu Pro Val Leu Ala
 35 40 45
 Asp Gly Asp Phe Arg Leu Gly His Cys His Arg Cys Ala Ala Glu Arg
 50 55 60
 Ala Arg Gln Gln Ala Gln Arg Gln Ala Asp Pro Ala Arg Arg Gly Ala
 65 70 75 80
 Gly Thr Ser Glu Thr Gly Gly Glu Thr Met Ser Lys Met Met Thr Ser
 85 90 95
 Glu Glu Phe Lys Pro Thr Ser Ala Pro Gly Ile Phe Gln Arg Leu Leu
 100 105 110
 Cys Trp Glu Gly Phe Leu Leu Ala Val Thr Leu Ala Val Phe Val Val
 115 120 125
 Asn Ala Leu Ala Ser Pro Tyr Phe Leu Asn Ile Trp Asn Leu Ser Asp
 130 135 140
 Ala Thr Phe Asn Phe Thr Glu Lys Ala Ile Ile Val Leu Pro Met Ala
 145 150 155 160
 Met Leu Ile Ile Ala Arg Glu Ile Asp Leu Ser Val Ala Ser Thr Ile
 165 170 175
 Ala Leu Ser Ser Thr Val Met Gly Phe Cys Ala Ala Ala Gly Val Asp
 180 185 190
 Thr Pro Leu Leu Val Cys Val Gly Leu Gly Val Gly Leu Leu Cys Gly
 195 200 205
 Leu Phe Asn Gly Ile Leu Val Thr Arg Phe Asn Leu Ser Ser Ile Val
 210 215 220
 Ile Thr Ile Gly Thr Met Ser Leu Tyr Arg Gly Ile Thr Tyr Ile Leu
 225 230 235 240
 Leu Gly Asp Gln Ala Leu Asn Ser Tyr Pro Glu Ser Phe Ala Trp Phe
 245 250 255
 Gly Gln Gly Tyr Val Trp Gly Ala Leu Ser Phe Glu Phe Ala Leu Phe
 260 265 270
 Ile Val Leu Ala Ala Leu Phe Ala Phe Val Leu His Arg Thr Asn Phe
 275 280 285
 Gly Arg Arg Thr Tyr Ala Ile Gly Asn Asn Pro Thr Gly Ala Trp Tyr
 290 295 300
 Ser Gly Ile Asn Val Lys Arg His Asn Leu Ile Leu Phe Ala Leu Val
 305 310 315 320
 Gly Leu Met Ser Gly Leu Ala Ser Val Leu Leu Thr Ser Arg Leu Gly

```

          325          330          335
Ser Thr Arg Pro Thr Ile Ala Met Gly Trp Glu Leu Ala Val Val Thr
          340          345          350
Met Ala Val Leu Gly Gly Val Asn Ile Leu Gly Gly Ser Gly Ser Met
          355          360          365
Val Gly Val Ile Ile Ala Ala Phe Leu Met Gly Leu Val Thr Phe Gly
          370          375          380
Leu Ser Leu Leu Asn Val Pro Gly Ile Val Met Ser Val Ile Ile Gly
          385          390          395          400
Ala Met Leu Ile Val Val Ile Ser Leu Pro Ile Ile Thr Arg Arg Ile
          405          410          415
Met Gln Arg Arg Arg Ile Ser
          420

```

<210> 10001

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10001

```

Gly Pro Arg Ala Val Pro Gly Gly Phe Met Ile Arg Lys Ala Phe Val
1          5          10          15
Met Gln Val Asn Pro Asp Ala His Glu Glu Tyr Ala Arg Arg His Asn
          20          25          30
Pro Ile Trp Pro Glu Leu Glu Ala Val Leu Lys Ala His Gly Ala His
          35          40          45
His Tyr Ala Ile Tyr Leu Asp Lys Ala Arg Asn Leu Leu Phe Ala Thr
          50          55          60
Val Glu Ile Glu Ser Glu Glu Arg Trp Asn Ala Val Ala Asn Thr Asp
65          70          75          80
Val Cys Gln Arg Trp Trp Lys His Met Ala Asp Val Met Pro Ser Asn
          85          90          95
Pro Asp Asn Ser Pro Val Ser Ala Ala Leu Asn Glu Val Phe Tyr Leu
          100          105          110
Asp

```

<210> 10002

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10002

```

Met Ser Ile Arg Ile Ile Pro Gln Asp Glu Leu Gly Ser Ser Glu Lys
1          5          10          15
Arg Thr Ala Glu Tyr Ile Pro Pro Leu Leu Phe Pro Arg Leu Lys Asn
          20          25          30
Leu Tyr Asn Arg Arg Ala Glu Arg Leu Arg Glu Leu Ala Glu Asn Asn
          35          40          45
Pro Leu Gly Asp Phe Leu Arg Phe Ala Ala Leu Val Ala His Ala Gln
          50          55          60
Glu Val Val Leu Tyr Asp His Pro Leu Gln Met Asp Leu Thr Ala Arg
65          70          75          80
Ile Lys Glu Ala Asn Glu Gln Gly Lys Pro Pro Leu Asp Ile His Val
          85          90          95
Leu Pro Arg Asp Lys His Trp His Lys Leu Leu His Ser Leu Ile Ala
          100          105          110
Glu Leu Lys Pro Glu Met Ser Gly Thr Ala Leu Ala Val Ile Glu Asn
          115          120          125
Leu Glu Lys Ala Ser Glu Gln Glu Leu Glu Glu Met Ala Ser Ala Leu
          130          135          140

```

Phe Ala Ser Asp Phe Ser Leu Val Ser Ser Asp Lys Ala Pro Phe Ile
 145 150 155 160
 Trp Ala Ala Leu Ser Leu Tyr Trp Ala Gln Met Ala Ser Leu Ile Pro
 165 170 175
 Gly Lys Ala Arg Ala Glu Tyr Gly Glu Ala Arg Gln Phe Cys Pro Val
 180 185 190
 Cys Gly Ser Met Pro Val Ser Ser Met Val Gln Ile Gly Thr Thr Gln
 195 200 205
 Gly Leu Arg Tyr Leu His Cys Asn Leu Cys Glu Thr Thr Thr His Val
 210 215 220
 Val Arg Val Lys Cys Ser Asn Cys Glu Gln Thr Arg Asp Leu Asn Tyr
 225 230 235 240
 Trp Ser Leu Glu Asn Glu Asp Ala Ala Val Lys Ala Glu Ser Cys Gly
 245 250 255
 Asp Cys Gly Thr Tyr Leu Lys Ile Leu Tyr Gln Glu Lys Asp Pro Lys
 260 265 270
 Val Glu Ala Val Ala Asp Asp Leu Ala Ser Leu Ile Leu Asp Ala Lys
 275 280 285
 Met Glu Gln Glu Gly Phe Ala Arg Ser Ser Ile Asn Pro Phe Leu Phe
 290 295 300
 Pro Gly Glu Gly Glu
 305 310

<210> 10003

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 10003

Ser Cys Thr Phe Ile Gln Leu Lys Gly Val Phe Met Ala Leu Glu Lys
 1 5 10 15
 Gly Ile Glu Arg Leu Val Gln Gly Phe Ile Ala Ala Gly Arg Pro Ser
 20 25 30
 Ser Arg Arg Gln Thr Ile Glu Val Arg Arg Ala Gly Tyr Ile Ala Ser
 35 40 45
 Thr Glu Leu Ala Gly Lys Thr Glu Thr Arg Val Gln Leu Glu Thr Leu
 50 55 60
 Val Leu Glu Gly Leu Thr Ile Arg Val Phe Ser Pro Leu Asn Ala Pro
 65 70 75 80
 Glu Ile Leu Pro Ala Ala Ile Tyr Tyr His Gly Gly Cys Phe Ile Ser
 85 90 95
 Gly Gly Phe Asp Thr His Asp Asn Gln Leu Arg Gln Leu Ala Tyr Tyr
 100 105 110
 Gly Asn Cys Arg Val Ile Ala Ile Gln Tyr Arg Leu Ala Pro Glu His
 115 120 125
 Thr Phe Pro Ala Ala His Asp Asp Ala Glu Arg Gly Ala Asn Leu Val
 130 135 140
 Trp Gln Tyr Ala Asp Glu Leu Gly Val Asp Lys Asn Arg Leu Thr Leu
 145 150 155 160
 Cys Gly Asp Ser Ala Gly Gly His Leu Ala Leu Val Thr Ser Leu Arg
 165 170 175
 Leu Lys Ala Lys Gly Leu Trp Asp Pro Ala Gln Leu Ile Leu Ile Tyr
 180 185 190
 Pro Met Leu Asp Ala Thr Ala Ser Leu Glu Ser Tyr Thr Leu Asn Gly
 195 200 205
 Met Asp Tyr Val Ile Thr Arg Asp Thr Leu Leu Ser Gly Tyr Glu Met
 210 215 220
 Tyr Leu Ala Gly Ala Asp Arg Gln His Pro Glu Val Ser Pro Leu Trp
 225 230 235 240
 Arg Asn Asp Phe Ser Gly Leu Pro Lys Val His Ile Val Thr Ala Glu
 245 250 255

Tyr Asp Pro Leu Arg Asp Glu Gly Glu Ala Leu Tyr Gln Arg Leu Thr
 260 265 270
 Ala Gln Gly Val Lys Cys Thr Ala Gln Gln Trp Arg Gly Val Ile His
 275 280 285
 Gly Phe Phe Gln Leu Gly Gly Ile Ser Gln Ser Ala Arg Asp Ile Met
 290 295 300
 Arg Asp Ile Ala Trp Arg Ile Asn His Ala Gly Arg Glu
 305 310 315

<210> 10004

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 10004

Gln Glu Arg Gly Met Ser Ala Ile Ala Phe Ile Gly Leu Gly Gln Met
 1 5 10 15
 Gly Ala Pro Met Ala Lys Asn Leu Leu Lys Gln Gly His Gln Leu Asn
 20 25 30
 Val Phe Asp Val Asn Pro Gln Ala Ile Gln Ala Leu Val Glu Ser Gly
 35 40 45
 Ala Arg Ala Ala Ala Thr Pro Ala Gln Ala Ala Thr Asp Ala Glu Phe
 50 55 60
 Val Ile Thr Met Leu Pro Asn Gly Asp Leu Val Arg Ser Val Leu Phe
 65 70 75 80
 Gly Glu His Gly Val Cys Glu Gly Leu Ser Arg Asp Ala Leu Val Ile
 85 90 95
 Asp Met Ser Thr Ile His Pro Leu Gln Thr Asp Ala Leu Ile Arg Asp
 100 105 110
 Met Ala Glu Gln Gly Phe Ser Leu Met Asp Val Pro Val Gly Arg Thr
 115 120 125
 Ser Asp His Ala Ile Ala Gly Thr Leu Leu Leu Ala Gly Gly Thr
 130 135 140
 Ala Gln Gln Val Glu Arg Ala Thr Pro Val Leu Met Ala Met Gly Asn
 145 150 155 160
 Glu Leu Ile Asn Ala Gly Gly Pro Gly Met Gly Ile Arg Val Lys Leu
 165 170 175
 Ile Asn Asn Tyr Met Ser Ile Ala Leu Asn Ala Leu Ser Ala Glu Ala
 180 185 190
 Ala Val Leu Cys Glu Ala Leu Gly Leu Ser Phe Asp Val Ala Leu Lys
 195 200 205
 Val Met Ser Gly Thr Pro Ala Gly Lys Gly His Phe Thr Thr Ser Trp
 210 215 220
 Pro Asn Lys Val Leu Lys Gly Asp Leu Ser Pro Ala Phe Met Ile Asp
 225 230 235 240
 Leu Ala His Lys Asp Leu Gly Ile Ala Leu Asp Val Ala Asn Gln Leu
 245 250 255
 His Val Pro Met Pro Leu Gly Ala Ala Ser Arg Glu Val Tyr Asn Gln
 260 265 270
 Ala Arg Ala Ala Gly Arg Gly Arg Glu Asp Trp Thr Ala Ile Leu Glu
 275 280 285
 Gln Val Arg Ala Ser Ala Gly Leu Lys Lys Ser His
 290 295 300

<210> 10005

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10005

Gly Ser Thr Met Thr His Asn Thr Asp Pro Leu Thr Leu Lys Leu Ser

1	5	10	15
Leu Arg Glu	Lys Cys Ala Tyr Gly Met	Gly Asp Phe Gly Ser	Asn Leu
	20	25	30
Met Leu Cys	Ile Gly Thr Leu Tyr Leu Leu Lys	Phe Tyr Thr Asp Glu	
	35	40	45
Leu Gly Met	Pro Ala Phe Tyr Gly Gly Ile Ile	Phe Leu Val Ala Lys	
	50	55	60
Phe Phe Thr	Ala Phe Thr Asp Met Leu Thr Gly	Val Leu Leu Asp Ser	
	65	70	75
Arg Arg Asn	Ile Gly Ala Arg Gly Lys Phe Arg	Pro Phe Ile Leu Tyr	
	85	90	95
Ala Ser Val	Pro Val Ala Leu Val Ala Thr Ala Gln	Phe Met Ala Asn	
	100	105	110
Asp Phe Ser	Leu Thr Val Lys Thr Ala Leu Ala Thr	Val Leu Phe Met	
	115	120	125
Met Phe Gly	Leu Cys Tyr Ser Leu Met Asn Cys Ala	Tyr Gly Ala Met	
	130	135	140
Val Pro Ala	Ile Thr Lys Asn Pro Asn Glu Arg Ala	Gln Leu Ala Ala	
	145	150	155
Trp Arg Gln	Gly Gly Ala Thr Val Gly Leu Leu Cys	Thr Val Gly	
	165	170	175
Phe Met Pro	Ile Gln Ala Leu Phe Val Ser Gln Pro	Ser Leu Gly Tyr	
	180	185	190
Leu Val Ala	Ala Leu Val Phe Val Thr Gly Gly Leu	Phe Cys Met Trp	
	195	200	205
Trp Cys Tyr	Ser Gly Val Lys Glu Arg Tyr Val Glu	Leu Thr Pro Asp	
	210	215	220
His His Lys	Pro Gly Ile Leu Lys Ser Phe Cys Ala	Ile Phe Arg Asn	
	225	230	235
Pro Pro Leu	Leu Val Leu Cys Ile Ala Asn Leu Cys	Thr Leu Ala Ala	
	245	250	255
Phe Asn Ile	Lys Leu Ala Ile Gln Val Tyr Thr Gln	Tyr Val Leu	
	260	265	270
Asn Asp Val	His Leu Leu Ser Trp Met Gly Phe Phe	Ser Met Gly Cys	
	275	280	285
Ile Leu Ile	Gly Val Phe Leu Val Pro Gly Ala Val	Lys Arg Phe Gly	
	290	295	300
Lys Lys Pro	Val Tyr Leu Gly Gly Leu Thr Leu Trp	Ala Val Gly Asp	
	305	310	315
Val Leu Asn	Phe Val Trp Gly Thr Ser Ser Leu Leu	Phe Val Leu Phe	
	325	330	335
Ser Cys Met	Ala Phe Phe Gly Thr Ala Phe Val Asn	Ser Leu Asn Trp	
	340	345	350
Ala Leu Val	Pro Asp Thr Val Asp Tyr Gly Glu Trp	Lys Thr Gly Ile	
	355	360	365
Arg Ala Glu	Gly Ser Val Tyr Thr Gly Tyr Thr Phe	Ser Arg Lys Ile	
	370	375	380
Ser Ala Ala	Leu Ala Gly Phe Leu Pro Gly Ile Met	Leu Thr Gln Ile	
	385	390	395
Gly Tyr Val	Pro His Ala Val Gln Ser Ala Gly Thr	Leu Leu Gly Leu	
	405	410	415
Arg Gln Leu	Ile Phe Leu Trp Pro Cys Gly Leu Ala	Ile Val Ala Ala	
	420	425	430
Val Thr Met	Gly Leu Phe Tyr Lys Leu Asn Glu Ala	Arg Phe Ala Phe	
	435	440	445
Ile Ile Glu	Glu Ile Gly Lys Arg Lys Lys Gln Thr	Ala Asn Thr Pro	
	450	455	460
Glu Ile Thr	Thr Asn Asn Lys Ala Ser Ala Val Thr	Leu	
	465	470	475

<211> 477

<212> PRT

<213> *Enterobacter cloacae*

<400> 10006

Lys Ile Lys Val Thr Phe Met Gln Arg Gly Ile Val Trp Val Val Asp
 1 5 10 15
 Asp Asp Ser Ser Ile Arg Trp Val Leu Glu Arg Ala Leu Thr Gly Ala
 20 25 30
 Gly Leu Ser Cys Thr Thr Phe Glu Ser Gly Ser Glu Val Leu Asp Ala
 35 40 45
 Leu Thr Thr Lys Thr Pro Asp Val Leu Leu Ser Asp Ile Arg Met Pro
 50 55 60
 Gly Met Asp Gly Leu Ala Leu Leu Lys Gln Ile Lys Gln Arg His Pro
 65 70 75 80
 Met Leu Pro Val Ile Ile Met Thr Ala His Ser Asp Leu Asp Ala Ala
 85 90 95
 Val Ser Ala Tyr Gln Gln Gly Ala Phe Asp Tyr Leu Pro Lys Pro Phe
 100 105 110
 Asp Ile Asp Glu Ala Val Ala Leu Val Glu Arg Ala Ile Ser His Tyr
 115 120 125
 Gln Glu Gln Gln Gln Pro Arg His Ala Pro Asp Phe Gly Pro Thr Thr
 130 135 140
 Asp Ile Ile Gly Glu Ala Pro Ala Met Gln Asp Val Phe Arg Ile Ile
 145 150 155 160
 Gly Arg Leu Ser Arg Ser Ser Ile Ser Val Leu Ile Asn Gly Glu Ser
 165 170 175
 Gly Thr Gly Lys Glu Leu Val Ala His Ala Leu His Arg His Ser Pro
 180 185 190
 Arg Ala Lys Ala Pro Phe Ile Ala Leu Asn Met Ala Ala Ile Pro Lys
 195 200 205
 Asp Leu Ile Glu Ser Glu Leu Phe Gly His Glu Lys Gly Ala Phe Thr
 210 215 220
 Gly Ala Asn Thr Ile Arg Gln Gly Arg Phe Glu Gln Ala Asp Gly Gly
 225 230 235 240
 Thr Leu Phe Leu Asp Glu Ile Gly Asp Met Pro Leu Asp Val Gln Thr
 245 250 255
 Arg Leu Leu Arg Val Leu Ala Asp Gly Gln Phe Tyr Arg Val Gly Gly
 260 265 270
 Tyr Ala Pro Val Lys Val Asp Val Arg Ile Ile Ala Ala Thr His Gln
 275 280 285
 Asn Leu Glu Leu Arg Val Gln Glu Gly Lys Phe Arg Glu Asp Leu Phe
 290 295 300
 His Arg Leu Asn Val Ile Arg Val His Leu Pro Pro Leu Arg Glu Arg
 305 310 315 320
 Arg Glu Asp Ile Pro Arg Leu Ala Arg His Phe Leu Gln Val Ala Ala
 325 330 335
 Arg Glu Leu Gly Val Glu Ala Lys Gln Leu His Gln Glu Thr Asp Ala
 340 345 350
 Ala Leu Thr Arg Leu Ala Trp Pro Gly Asn Val Arg Gln Leu Glu Asn
 355 360 365
 Thr Cys Arg Trp Leu Thr Val Met Ala Ala Gly Gln Glu Val Leu Ile
 370 375 380
 Gln Asp Leu Pro Ala Glu Leu Phe Glu Ala Thr Val Pro Glu Ser Thr
 385 390 395 400
 Ala Gly His Ala Leu Pro Asp Ser Trp Ala Thr Leu Leu Ala Gln Trp
 405 410 415
 Ala Asp Arg Ala Leu Arg Ser Gly His Gln Asn Leu Leu Ser Glu Ala
 420 425 430
 Gln Pro Glu Met Glu Arg Thr Leu Leu Thr Thr Ala Leu Arg His Thr
 435 440 445

Gln Gly His Lys Gln Glu Ala Arg Leu Leu Gly Trp Gly Arg Asn
 450 455 460
 Thr Leu Thr Arg Lys Leu Lys Glu Leu Gly Met Glu
 465 470 475

<210> 10007

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 10007

Cys Ala Asp Leu Ser Ser Ser Arg Gly Gly Arg His Lys Ala Leu Met
 1 5 10 15
 Ala Thr Glu Gly Val Asn Ile Glu Phe Thr Asp Asp Gly Ile Lys Arg
 20 25 30
 Ile Ala Gln Ala Ala Trp Gln Val Asn Glu Thr Thr Glu Asn Ile Gly
 35 40 45
 Ala Arg Arg Leu His Thr Val Leu Glu Arg Leu Met Glu Asp Ile Ser
 50 55 60
 Tyr Asp Ala Ser Asp Leu Asn Gly Gln Ser Ile Thr Ile Asp Ala Asp
 65 70 75 80
 Tyr Val Gly Lys His Leu Asp Ala Leu Val Ala Asp Glu Asp Leu Ser
 85 90 95
 Arg Phe Ile Leu
 100

<210> 10008

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 10008

Arg Pro Gly Ala Met Leu Met Lys Ser Ser Ala His Ser Leu Tyr Leu
 1 5 10 15
 Cys Leu Ala Met Leu Ser Ala Ser Phe Ser Leu Tyr Ala Thr Glu Thr
 20 25 30
 Ala Ser Pro Val Thr Ala Pro Tyr Leu Leu Ala Gly Ala Pro Ser Phe
 35 40 45
 Asp Gln Ser Ile Ser Gln Phe Arg Glu Ala Phe Asn Lys Glu Asn Pro
 50 55 60
 Ser Leu Pro Leu Gly Glu Phe Arg Ala Ile Asp Ser Ala Arg Asp Thr
 65 70 75 80
 Pro Thr Leu Thr Arg Ala Ala Ser Lys Ile Asn Glu Asn Leu Tyr Ala
 85 90 95
 Ser Thr Ala Leu Glu Arg Gly Thr Leu Lys Ile Lys Ser Met Gln Ile
 100 105 110
 Thr Trp Leu Pro Ile Gln Gly Pro Glu Gln Lys Ala Ala Lys Ala Lys
 115 120 125
 Ala Leu Glu Tyr Met Ser Ala Ile Leu Arg Ala Phe Thr Pro Thr Phe
 130 135 140
 Thr Lys Ala Gln Ser Gln Gln Lys Leu Gln Lys Leu Leu Thr Ala Gly
 145 150 155 160
 Lys Asn Lys Arg Tyr Tyr Ala Asp Thr Glu Gly Ala Val Arg Tyr Val
 165 170 175
 Val Ala Asp Asn Gly Glu Lys Gly Leu Thr Phe Ala Val Glu Pro Ile
 180 185 190
 Lys Leu Ala Leu Ser Asp Ala Leu Glu Gly Ala Asn
 195 200 205

<210> 10009

<211> 261

<212> PRT

<213> *Enterobacter cloacae*

<400> 10009

Ala Trp Arg Ile Glu Met Arg His Pro Leu Val Met Gly Asn Trp Lys
 1 5 10 15
 Leu Asn Gly Ser Arg His Met Val Asn Glu Leu Val Ala Asn Leu Arg
 20 25 30
 Lys Glu Leu Ala Gly Val Thr Gly Cys Ala Val Ala Ile Ala Pro Pro
 35 40 45
 Asp Met Tyr Leu Asp Leu Ala Lys Arg Ala Ala Asp Gly Ser His Ile
 50 55 60
 Ile Leu Gly Ala Gln Asn Val Asp Val Asn Leu Ser Gly Ala Phe Thr
 65 70 75 80
 Gly Glu Thr Ser Ala Glu Met Leu Lys Asp Ile Gly Ala Lys Tyr Ile
 85 90 95
 Ile Ile Gly His Ser Glu Arg Arg Thr Tyr His Lys Glu Ser Asp Glu
 100 105 110
 Phe Ile Ala Lys Lys Phe Ala Val Leu Lys Glu Gln Gly Leu Ile Pro
 115 120 125
 Val Leu Cys Ile Gly Glu Thr Glu Ala Glu Asn Glu Ala Gly Lys Thr
 130 135 140
 Glu Glu Val Cys Ala Arg Gln Ile Asp Ala Val Leu Lys Thr Gln Gly
 145 150 155 160
 Ala Ala Ala Phe Glu Gly Ala Val Ile Ala Tyr Glu Pro Val Trp Ala
 165 170 175
 Ile Gly Thr Gly Lys Ser Ala Thr Pro Ala Gln Ala Gln Ala Val His
 180 185 190
 Lys Phe Ile Arg Asp His Ile Ala Lys Ala Asp Ala Lys Val Ala Glu
 195 200 205
 Gln Val Ile Ile Gln Tyr Gly Gly Ser Val Asn Ala Ser Asn Ala Ala
 210 215 220
 Glu Leu Phe Thr Gln Pro Asp Ile Asp Gly Ala Leu Val Gly Gly Ala
 225 230 235 240
 Ser Leu Lys Ala Asp Ala Phe Ala Val Ile Val Lys Ala Ala Glu Ala
 245 250 255
 Ala Lys Gln Ala
 260

<210> 10010

<211> 478

<212> PRT

<213> *Enterobacter cloacae*

<400> 10010

Arg Arg Ser Ser Leu Val Gln Asn Pro Ala Trp Ser Trp Leu Ser Asp
 1 5 10 15
 Gly Phe Arg Phe Met Ile Gly Ser Leu Thr Ala Arg Ile Phe Ala Ile
 20 25 30
 Phe Trp Leu Thr Leu Ala Leu Val Leu Met Leu Val Leu Met Leu Pro
 35 40 45
 Lys Leu Asp Ser Arg Gln Met Thr Glu Leu Leu Asp Ser Glu Gln Arg
 50 55 60
 Gln Gly Val Met Ile Glu Gln His Val Glu Ala Glu Leu Ala Asn Asp
 65 70 75 80
 Pro Pro Asn Asp Leu Met Trp Trp Arg Arg Leu Phe Arg Ala Ile Asp
 85 90 95
 Lys Trp Ala Pro Pro Gly Gln Arg Leu Leu Leu Val Thr Ser Glu Gly
 100 105 110
 Arg Val Ile Gly Ala Asp Arg Asn Glu Met Gln Ile Ile Arg Asn Phe
 115 120 125

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Ile Gly Gln Ala Asp Asn Ala Asp His Pro Gln Lys Lys Lys Tyr Gly
130 135 140
Arg Val Glu Met Val Gly Pro Phe Ser Val Arg Asp Gly Glu Asp Asn
145 150 155 160
Tyr Gln Leu Tyr Leu Ile Arg Pro Ala Ser Ser Ser Gln Ser Asp Phe
165 170 175
Ile Asn Leu Leu Phe Asp Arg Pro Leu Leu Leu Ile Val Thr Met
180 185 190
Leu Val Ser Ser Pro Leu Leu Leu Trp Leu Ala Trp Ser Leu Ala Lys
195 200 205
Pro Ala Arg Lys Leu Lys Asn Ala Ala Asp Glu Val Ala Gln Gly Asn
210 215 220
Leu Arg Gln His Pro Glu Leu Glu Ser Gly Pro Gln Glu Phe Leu Ala
225 230 235 240
Ala Gly Thr Ser Phe Asn Gln Met Val Ser Ala Leu Asp Arg Met Met
245 250 255
Thr Ala Gln Gln Arg Leu Leu Ser Asp Ile Ser His Glu Leu Arg Thr
260 265 270
Pro Leu Thr Arg Leu Gln Leu Gly Thr Ala Leu Leu Arg Arg Arg Ser
275 280 285
Gly Glu Ser Lys Glu Leu Glu Arg Ile Glu Thr Glu Ala His Arg Leu
290 295 300
Asp Ser Met Ile Asn Asp Leu Leu Val Met Ser Arg Asn Gln Gln Lys
305 310 315 320
Asn Ala Leu Val Ser Glu Thr Val Lys Ala Asn His Leu Trp His Glu
325 330 335
Val Leu Asp Asn Ala Ala Phe Glu Ala Glu Gln Met Gly Lys Ser Phe
340 345 350
Thr Val Asn Phe Pro Pro Gly Pro Trp Pro Leu Tyr Gly Asn Pro Asn
355 360 365
Ala Leu Glu Ser Ala Leu Glu Asn Ile Val Arg Asn Ala Leu Arg Tyr
370 375 380
Ser His Thr Lys Ile Glu Val Ala Phe Ser Val Asp Lys Asp Gly Ile
385 390 395 400
Thr Val Ile Val Asp Asp Asp Gly Pro Gly Val Ser Pro Glu Asp Arg
405 410 415
Glu Gln Ile Phe Arg Pro Phe Tyr Arg Thr Asp Glu Ala Arg Asp Arg
420 425 430
Glu Ser Gly Gly Thr Gly Leu Gly Leu Ala Ile Val Glu Thr Ala Met
435 440 445
Gln Gln His Arg Gly Trp Val Lys Ala Asp Asp Ser Pro Leu Gly Gly
450 455 460
Leu Arg Leu Thr Leu Trp Leu Pro Leu Tyr Lys Arg Ser
465 470 475

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<210> 10011

<211> 569

<212> PRT

<213> Enterobacter cloacae

<400> 10011

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Ile Phe Asp Ser Lys Pro Arg Lys Ser Cys Arg Phe Phe Lys Lys Gln
1 5 10 15
Ala Glu Arg Ser Gly Asn Ala Val Ser Val Thr Leu Pro Ala Asn Pro
20 25 30
Ala Ile Thr Gly Asn Cys Glu Leu Pro His Val His Leu Cys Phe Leu
35 40 45
Ala Ser Ala Arg Phe Gly Leu Ser Val Ala Arg Arg Trp Leu Phe Leu
50 55 60
Pro Phe Leu Thr Leu Leu Ala Asn Asp Leu Arg Lys Asp Pro Thr Met
65 70 75 80

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Thr Phe Arg His Cys Val Ala Val Asp Leu Gly Ala Ser Ser Gly Arg
 85 90 95
 Val Met Leu Ala Thr Trp Asp Cys Asp Leu His Thr Leu Thr Leu Arg
 100 105 110
 Glu Met His Arg Phe Ala Asn Cys Leu Gln Lys Gln Asp Gly Phe Val
 115 120 125
 Thr Trp Asp Ile Asp Ala Leu Glu Ala Glu Ile Arg Thr Gly Leu His
 130 135 140
 Asn Val Cys Glu Asp Gly Ile Arg Ile Asp Ser Ile Gly Ile Asp Thr
 145 150 155 160
 Trp Gly Val Asp Tyr Val Leu Leu Asp Arg His Gly Glu Arg Val Gly
 165 170 175
 Leu Pro Val Ser Tyr Arg Asp Ser Arg Thr Asp Gly Leu Met Ala His
 180 185 190
 Ala Ile Ala Gln Leu Gly Lys Glu Asn Ile Tyr Gly Arg Ser Gly Ile
 195 200 205
 Gln Phe Leu Pro Phe Asn Thr Leu Tyr Gln Leu Arg Ala Leu Val Glu
 210 215 220
 Gln Gln Pro Glu Leu Val Glu Lys Val Ala His Ala Leu Leu Ile Pro
 225 230 235 240
 Asp Tyr Leu Ser Tyr Arg Leu Thr Gly Asn Met Asn Trp Glu Tyr Thr
 245 250 255
 Asn Ala Thr Thr Thr Gln Leu Val Asn Ile Asn Thr Asp Asn Trp Asp
 260 265 270
 Glu His Leu Leu Ala Trp Thr Gly Ala Ser Pro Ser Trp Phe Gly Ala
 275 280 285
 Pro Thr His Pro Gly Asn Val Ile Gly His Trp Leu Cys Pro Gln Gly
 290 295 300
 Asn Lys Ile Pro Val Val Ala Val Ala Ser His Asp Thr Ala Ser Ala
 305 310 315 320
 Val Ile Ala Ser Pro Leu Ala Gly Lys Asp Ala Ala Tyr Leu Ser Ser
 325 330 335
 Gly Thr Trp Ser Leu Met Gly Phe Glu Ser Lys Thr Pro Tyr Thr Ser
 340 345 350
 Asp Ala Ala Leu Ala Ala Asn Ile Thr Asn Glu Gly Gly Ala Glu Gly
 355 360 365
 Arg Tyr Arg Val Leu Lys Asn Ile Met Gly Leu Trp Leu Leu Gln Arg
 370 375 380
 Val Leu Lys Glu Gln Asn Ile Thr Asp Leu Pro Glu Leu Ile Ala Glu
 385 390 395 400
 Thr Glu Thr Leu Lys Ala Cys Thr Phe Leu Ile Asn Pro Asn Asp Asp
 405 410 415
 Arg Phe Ile Asn Pro Ala His Met Ser Ala Glu Ile Gln Ala Ala Cys
 420 425 430
 Phe Glu Ala Gly Gln Pro Val Pro Ser Arg Pro Ala Glu Leu Ala Arg
 435 440 445
 Cys Ile Phe Asp Ser Leu Ala Leu Leu Tyr Ala Asp Ile Leu Ser Glu
 450 455 460
 Leu Ala Asp Leu Arg Gly Lys Pro Phe Thr Gln Leu His Ile Val Gly
 465 470 475 480
 Gly Gly Cys Gln Asn Gln Leu Leu Asn Gln Leu Cys Ala Asp Ala Cys
 485 490 495
 Gly Ile Thr Val Val Ala Gly Pro Ile Glu Ala Ser Thr Leu Gly Asn
 500 505 510
 Ile Gly Ile Gln Leu Met Thr Leu Asp Glu Leu Ser Asn Val Asp Asp
 515 520 525
 Phe Arg Ser Val Val Thr Ala Asn Asn Ser Leu Thr Thr Phe Thr Pro
 530 535 540
 His Pro Cys His Glu Ile Ala Arg Tyr Arg Ala Gln Phe Gln Gln Lys
 545 550 555 560
 Arg Leu Thr Lys Glu Leu Cys Ala

565

<210> 10012
 <211> 361
 <212> PRT
 <213> Enterobacter cloacae

<400> 10012
 Ile Cys Thr Asn Asn Asn Ile Ala Pro Arg Ser Pro Arg Arg Gly Glu
 1 5 10 15
 Asn His Leu Gln Ser Leu Gln Leu Thr Gln Val Ser Gly Val Lys Ala
 20 25 30
 Met Lys Ile Lys Ala Ser Leu Ile Leu Thr Val Ala Ala Leu Ala Leu
 35 40 45
 Ser Gly Ser Ala Leu Ala Glu Val Lys Ile Ala Leu Val Ala Lys Ser
 50 55 60
 Leu Gly Asn Gly Phe Phe Glu Ala Ala Asn Val Gly Ala Gln Glu Ala
 65 70 75 80
 Ala Lys Glu Leu Gly Asp Val Lys Val Ile Tyr Thr Gly Pro Thr Thr
 85 90 95
 Thr Thr Ala Glu Ala Gln Ile Glu Val Leu Asn Gly Leu Ile Ala Gln
 100 105 110
 Gly Val Asp Ala Ile Ala Ile Ser Ala Asn Asp Pro Asp Ala Val Val
 115 120 125
 Pro Val Leu Lys Lys Ala Met Gln Arg Gly Ile Lys Val Val Ser Trp
 130 135 140
 Asp Ser Gly Val Ala Lys Ala Gly Arg Gln Ile His Leu Asn Pro Ser
 145 150 155 160
 Asn Asn Ala Leu Ile Gly Glu Thr Asn Val Lys Leu Ala Ala Asp Ala
 165 170 175
 Leu Lys Ala Leu Asn Val Glu Lys Gly Glu Val Ala Val Leu Ser Ala
 180 185 190
 Thr Pro Thr Ser Thr Asn Gln Asn Thr Trp Ile Ala Glu Met Lys Lys
 195 200 205
 Val Leu Pro Lys Tyr Pro Ser Val Asn Leu Val Thr Val Ala Tyr Gly
 210 215 220
 Asp Asp Leu Ser Asp Lys Ser Tyr Arg Glu Ala Val Gly Leu Leu Lys
 225 230 235 240
 Thr Tyr Pro Glu Leu Lys Val Ile Val Ser Pro Ser Ser Val Gly Ile
 245 250 255
 Val Ala Ala Ala Gln Ala Val Lys Asp Gln Gly Lys Ile Gly Lys Val
 260 265 270
 Tyr Val Thr Gly Leu Gly Leu Pro Ser Glu Met Ala Gly Ala Val Lys
 275 280 285
 Ser Gly Ala Ser Lys Ser Phe Ala Ile Trp Asn Pro Ile Asp Leu Gly
 290 295 300
 Tyr Ala Ala Thr Tyr Leu Ala Asp Asp Leu Val Lys Gly Thr Ala Thr
 305 310 315 320
 Lys Gly Glu Ala Ser Met Gly Lys Leu Gly Lys Val Lys Leu Asp Ala
 325 330 335
 Asp Gly Asn Gly Ala Met Ala Glu Pro Phe Val Tyr Asp Ala Ser Asn
 340 345 350
 Ile Asp Lys Phe Ser Lys Ile Phe
 355 360

<210> 10013
 <211> 507
 <212> PRT
 <213> Enterobacter cloacae

<400> 10013

Thr Lys Arg Arg Thr Ile Met Thr Pro Leu Leu Gln Leu Ser Gly Ile
 1 5 10 15
 Thr Lys Val Phe Pro Gly Val Arg Ala Leu Glu Asn Val Gln Leu Ala
 20 25 30
 Leu Trp Pro Gly Lys Val Thr Ala Leu Ile Gly Glu Asn Gly Ala Gly
 35 40 45
 Lys Ser Thr Leu Val Lys Val Met Thr Gly Ile Tyr Gln Pro Asp Glu
 50 55 60
 Gly Glu Ile Leu Tyr Lys Ala Ile Pro Val His Leu Pro Thr Pro Glu
 65 70 75 80
 Ser Ala His Lys Met Gly Ile Thr Ala Ile His Gln Glu Thr Val Leu
 85 90 95
 Phe Asp Glu Leu Ser Val Thr Glu Asn Ile Phe Val Gly Gln Tyr Leu
 100 105 110
 His Lys Gly Phe Leu Lys Lys Leu Asp Trp Pro Glu Met His Arg Arg
 115 120 125
 Ala Gln Ala Ile Leu Ala Arg Leu Glu Val Gln Ile Asp Pro Arg Ala
 130 135 140
 Thr Leu Lys Thr Leu Ser Ile Ala Gln Arg His Met Val Ala Ile Ala
 145 150 155 160
 Arg Ala Leu Ser Phe Glu Ala Gln Val Val Ile Leu Asp Glu Pro Thr
 165 170 175
 Ala Ala Leu Ser Gln His Glu Ile Leu Glu Phe Tyr Gln Ile Val Glu
 180 185 190
 Arg Leu Lys Gln Glu Gly Lys Ala Ile Leu Phe Ile Ser His Lys Phe
 195 200 205
 Asp Glu Ile Phe Glu Leu Ala Asp His Tyr Thr Ile Leu Arg Asp Gly
 210 215 220
 Val Phe Val Gly Ala Gly Ala Ile Asn Glu Ile Thr Glu Glu Arg Met
 225 230 235 240
 Val Ser Met Met Val Gly Arg Ala Ile Thr Gln Thr Phe Pro Lys Ile
 245 250 255
 Asp Cys Glu Lys Gly Glu Thr Val Leu Glu Val Gln Asn Leu Cys His
 260 265 270
 Pro Thr Glu Phe Ala His Ile Ser Phe Ser Leu Arg Lys Gly Glu Ile
 275 280 285
 Leu Gly Phe Tyr Gly Leu Val Gly Ala Gly Arg Thr Glu Leu Met Gln
 290 295 300
 Ala Leu Ser Gly Val Thr Arg Pro Ser Ser Gly Glu Ile Ile Leu Asn
 305 310 315 320
 Gly Gln Pro Arg Arg Phe Arg Gln Pro Ala Asp Ala Ile Lys Ala Gly
 325 330 335
 Ile Val Cys Val Pro Glu Glu Arg Gln Lys Gln Gly Ala Ile Ile Ala
 340 345 350
 Leu Pro Ile Ala Gln Asn Ile Ser Leu Pro Gln Leu Ser Thr Leu Asn
 355 360 365
 Pro Asn Gly Val Leu His Asp Asp Arg Glu Trp Lys Leu Ala Asn Glu
 370 375 380
 Tyr Ala Lys Arg Leu Gln Val Lys Ala Phe Ser Trp Lys Gln Ala Val
 385 390 395 400
 Glu Thr Leu Ser Gly Gly Asn Gln Gln Lys Val Val Ile Gly Lys Trp
 405 410 415
 Leu Ala Thr His Pro Asp Val Ile Ile Leu Asp Glu Pro Thr Lys Gly
 420 425 430
 Ile Asp Ile Gly Ser Lys Ala Ala Val His Gln Phe Met Ser Glu Leu
 435 440 445
 Val Ser Gln Gly Leu Ala Val Ile Met Val Ser Ser Glu Leu Pro Glu
 450 455 460
 Val Met Gly Met Ala Asp Arg Ile Ile Val Met His Glu Gly Leu Met
 465 470 475 480
 Val Ala Glu Tyr Gln Ala Gly Asp Ala Thr Ala Glu Thr Ile Val Ser

Ala Ala Ser Gly 485 490 495
 Ala Lys Gln Glu Ala Ala
 500 505

<210> 10014
 <211> 335
 <212> PRT
 <213> Enterobacter cloacae

<400> 10014
 Met Leu Ser Ser Leu Leu Lys His Arg Glu Ala Leu Leu Gly Ala Val
 1 5 10 15
 Ile Ile Leu Met Ile Val Ala Ile Gly Ser Arg Val Pro Ser Phe Ile
 20 25 30
 Ala Pro Gly Asn Leu Val Glu Met Phe Asn Asp Thr Ala Ile Leu Ile
 35 40 45
 Val Leu Ala Leu Gly Gln Met Met Val Leu Leu Thr Lys Gly Ile Asp
 50 55 60
 Leu Ser Met Ala Ala Asn Leu Ala Leu Thr Gly Met Ile Val Ala Leu
 65 70 75 80
 Ile Asn Phe His Tyr Pro Asp Val Pro Val Trp Ala Leu Leu Ile Leu
 85 90 95
 Ala Ser Ala Leu Gly Leu Leu Met Gly Ala Ile Asn Gly Leu Leu Val
 100 105 110
 Trp Lys Leu Gly Ile Pro Ala Ile Val Val Thr Leu Gly Thr Met Ser
 115 120 125
 Ile Tyr Arg Gly Met Ile Phe Leu Leu Ser Gly Gly Trp Val Asn
 130 135 140
 Ser Asn Gln Met Gly Ala Asp Phe Leu Gly Leu Pro Arg Ala Ser Val
 145 150 155 160
 Leu Gly Leu Pro Val Leu Ser Trp Cys Ala Ile Ala Val Leu Leu Leu
 165 170 175
 Val Gly Tyr Phe Leu Arg Tyr Ser Arg Thr Gly Arg Ala Leu Tyr Thr
 180 185 190
 Ala Gly Gly Asn Ala Thr Ala Ala Tyr Tyr Thr Gly Ile Asn Ala Gly
 195 200 205
 Lys Met Gln Phe Ile Ser Phe Cys Leu Ser Gly Leu Leu Ala Gly Phe
 210 215 220
 Cys Gly Tyr Leu Trp Ile Ser Arg Phe Ala Val Ala Tyr Val Asp Val
 225 230 235 240
 Ala Asn Gly Phe Glu Leu Gln Val Val Ala Ala Cys Val Ile Gly Gly
 245 250 255
 Ile Ser Thr Met Gly Gly Thr Gly Arg Val Leu Gly Cys Leu Phe Gly
 260 265 270
 Ala Leu Phe Leu Gly Val Ile Asn Asn Ala Leu Pro Val Ile Gly Val
 275 280 285
 Ser Pro Phe Trp Gln Met Ala Ile Ser Gly Ser Val Ile Val Ile Ala
 290 295 300
 Val Leu Leu Asn Glu Arg Gly Asn Lys Arg Lys Gly Arg Leu Ile Leu
 305 310 315 320
 Arg Asp Ala Ala Leu Ala Arg Gln Lys Leu Ala Val Lys Pro
 325 330 335

<210> 10015
 <211> 388
 <212> PRT
 <213> Enterobacter cloacae

<400> 10015
 Leu Arg Arg Ile Ile Met Ser Phe Met Leu Ala Leu Pro Lys Ile Ser
 1 5 10 15

Leu His Gly Ala Gly Ala Ile Gly Asp Met Val Asn Leu Val Ala Asn
 20 25 30
 Lys Gln Trp Gly Lys Ala Leu Ile Val Thr Asp Gly Gln Leu Val Lys
 35 40 45
 Leu Gly Leu Leu Asp Ser Leu Phe Thr Ala Leu Asp Ala His Gln Met
 50 55 60
 Ser Tyr His Leu Phe Asp Glu Val Phe Pro Asn Pro Thr Glu Ala Leu
 65 70 75 80
 Val Gln Lys Gly Tyr Ala Ala Tyr Gln Asp Ala Glu Cys Asp Tyr Leu
 85 90 95
 Ile Ala Phe Gly Gly Ser Pro Ile Asp Thr Ala Lys Ala Ile Lys
 100 105 110
 Ile Leu Thr Ala Asn Pro Gly Pro Ser Thr Asp Tyr Ser Gly Val Gly
 115 120 125
 Lys Val Lys Asn Ala Gly Val Pro Leu Val Ala Ile Asn Thr Thr Ala
 130 135 140
 Gly Thr Ala Ala Glu Met Thr Ser Asn Ala Val Ile Ile Asp Ala Ala
 145 150 155 160
 Arg Gln Val Lys Glu Val Ile Ile Asp Pro Asn Ile Ile Pro Asp Ile
 165 170 175
 Ala Val Asp Asp Ala Ser Val Met Leu Asp Ile Pro Ala Ser Val Thr
 180 185 190
 Ala Ala Thr Gly Met Asp Ala Leu Thr His Ala Ile Glu Ala Tyr Val
 195 200 205
 Ser Val Gly Ala His Pro Leu Thr Asp Ala Asn Ala Leu Glu Ala Ile
 210 215 220
 Arg Leu Ile Asn Leu Trp Leu Pro Lys Ala Val Asp Asp Gly His Asn
 225 230 235 240
 Leu Glu Ala Arg Glu Gln Met Ala Phe Gly Gln Tyr Leu Ala Gly Met
 245 250 255
 Ala Phe Asn Ser Ala Gly Leu Gly Leu Val His Ala Leu Ala His Gln
 260 265 270
 Pro Gly Ala Thr His Asn Leu Pro His Gly Val Cys Asn Ala Ile Leu
 275 280 285
 Leu Pro Ile Ile Glu Asn Phe Asn Arg Pro Asn Ala Val Ala Arg Phe
 290 295 300
 Ala Arg Val Ala Gln Ala Met Gly Val Asp Thr Arg Gly Met Ser Asp
 305 310 315 320
 Glu Ala Ala Ser Met Ser Ala Ile Gln Ala Ile Arg Asp Leu Ser Ala
 325 330 335
 Arg Val Gly Ile Pro Ser Gly Phe Ser Gln Leu Gly Val Thr Lys Ala
 340 345 350
 Asp Ile Glu Gly Trp Leu Asp Lys Ala Leu Ala Asp Pro Cys Ala Pro
 355 360 365
 Cys Asn Pro Arg Thr Ala Ser Arg Asp Glu Val Arg Glu Leu Tyr Leu
 370 375 380
 Glu Ala Leu
 385

<210> 10016

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 10016

Asn Gly Met Lys Asn His Leu Ser Cys Leu Lys Gly Asp Thr Ile Lys
 1 5 10 15
 Ala Ile Val Leu Val Cys Leu Ala Val Gly Val Val Gly Met Ser Tyr
 20 25 30
 Gly Ser Leu Ala Met Ala Tyr Gly Phe Pro Leu Trp Val Pro Phe Val
 35 40 45

Leu Ser Leu Thr Val Leu Ala Gly Ala Ser Glu Phe Met Phe Ile Gly
 50 55 60
 Ile Val Ala Ser Gly Gly Asn Pro Leu Ala Ala Ala Ala Gly Leu
 65 70 75 80
 Leu Val Asn Ala Arg His Val Pro Phe Gly Val Thr Val Arg Asp Leu
 85 90 95
 Val Gly Lys Arg Gly Leu Ser Phe Leu Gly Cys His Ile Met Asn Asp
 100 105 110
 Glu Ser Val Val Phe Gly Leu Ser Gln Lys Thr Ala Glu Gln Arg Lys
 115 120 125
 Ala Ala Tyr Trp Leu Cys Gly Leu Gly Val Ala Ile Ile Trp Pro Leu
 130 135 140
 Gly Ala Val Leu Gly Ala Met Val Gly Lys Leu Leu Pro Asp Pro Glu
 145 150 155 160
 Thr Ile Gly Leu Asp Ala Val Phe Pro Ala Ile Leu Leu Ala Leu Val
 165 170 175
 Val Pro Ala Phe Lys Asn Arg Thr Thr Leu Ile Arg Ala Cys Ser Gly
 180 185 190
 Ala Val Leu Ser Leu Ala Ala Val Pro Phe Ala Pro Val Gly Leu Pro
 195 200 205
 Val Leu Leu Ser Leu Leu Gly Leu Ala Ala Arg Lys Lys
 210 215 220

<210> 10017

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 10017

Arg Glu Arg Arg Gly Ala Gln Met Arg Lys Arg Asp Thr Ile Val Arg
 1 5 10 15
 Tyr Thr Ala Pro Glu Arg Ile Asn His Trp Val Thr Ala Phe Cys Phe
 20 25 30
 Met Leu Ala Ala Ile Ser Gly Leu Gly Phe Phe Phe Pro Ser Phe Asn
 35 40 45
 Trp Leu Met Gln Ile Met Gly Thr Pro Gln Leu Ala Arg Ile Leu His
 50 55 60
 Pro Phe Val Gly Val Ile Met Phe Ala Ser Phe Ile Ile Met Phe Phe
 65 70 75 80
 Arg Tyr Trp His His Asn Leu Ile Asn Arg Asp Asp Ile Phe Trp Ala
 85 90 95
 Lys Asn Ile Arg Lys Ile Val Val Asn Glu Glu Val Gly Asp Thr Gly
 100 105 110
 Arg Tyr Asn Phe Gly Gln Lys Cys Val Phe Trp Ala Ala Ile Ile Phe
 115 120 125
 Leu Val Leu Leu Leu Val Ser Gly Val Ile Ile Trp Arg Pro Tyr Phe
 130 135 140
 Ala Pro Ala Phe Ser Ile Pro Val Ile Arg Phe Ala Leu Met Leu His
 145 150 155 160
 Ser Phe Ala Ala Val Ala Leu Ile Val Val Ile Met Val His Ile Tyr
 165 170 175
 Ala Ala Leu Trp Val Lys Gly Thr Ile Thr Ala Met Val Glu Gly Trp
 180 185 190
 Val Thr Lys Thr Trp Ala Lys Lys His His Pro Arg Trp Tyr Arg Glu
 195 200 205
 Val Arg Gln Lys Gln Glu Lys Ser Ser Glu
 210 215

<210> 10018

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 10018

Asp Arg Arg Arg Asn Asp Gly Ser Pro Leu Arg Lys Asp Pro Asn Met
 1 5 10 15
 Lys Trp Phe Asn Thr Leu Ser His Asn Arg Trp Leu Glu Gln Glu Thr
 20 25 30
 Asp Arg Ile Leu Asp Phe Gly Lys Asn Ala Ala Val Pro Thr Gly Phe
 35 40 45
 Gly Trp Leu Gly Asn Asn Gly Gln Val Arg Ser Asp Met Gly Thr His
 50 55 60
 Leu Trp Ile Thr Ala Arg Met Leu His Val Tyr Ala Val Ala Ala Asn
 65 70 75 80
 Met Gly Arg Pro Gly Ala Tyr Ala Leu Val Glu His Gly Ile Asn Ala
 85 90 95
 Leu Asn Gly Pro Leu Arg Asp Lys Gln His Gly Gly Trp Tyr Ala Cys
 100 105 110
 Val Asn Asp Glu Gly Val Ile Asp Ala Ser Lys Gln Gly Tyr Gln His
 115 120 125
 Phe Phe Val Leu Leu Gly Ala Ala Ser Ala Val Thr Thr Gly His Pro
 130 135 140
 Gln Ala Arg Lys Leu Leu Asp Asp Ala Ile Glu Val Ile Glu Arg Tyr
 145 150 155 160
 Phe Trp Ser Glu Gln Glu Gln Met Cys Leu Glu Ser Trp Asp Glu Ala
 165 170 175
 Phe Ser Lys Thr Glu Asp Tyr Arg Gly Gly Asn Ala Asn Met His Ala
 180 185 190
 Val Glu Ala Phe Leu Ile Val Tyr Asp Val Thr His Asp Arg Lys Trp
 195 200 205
 Leu Asp Arg Ala Leu Arg Ile Ala Ser Val Ile Ile His Asp Val Ala
 210 215 220
 Arg Lys Gly Glu Tyr Arg Val Asn Glu His Phe Asp Thr Asn Trp Asn
 225 230 235 240
 Pro Ile Arg Asp Tyr Asn Ile Asp Asn Pro Ala His Arg Phe Arg Ala
 245 250 255
 Tyr Gly Gly Thr Pro Gly His Trp Ile Glu Trp Gly Arg Leu Met Leu
 260 265 270
 His Leu Arg Ala Ala Leu Glu Ala Arg Phe Glu Thr Pro Pro Glu Trp
 275 280 285
 Leu Leu Glu Asp Ala Lys Gly Leu Phe His Ala Thr Ile Arg Asp Ala
 290 295 300
 Trp Ala Pro Asp Gly Ala Asp Gly Phe Val Tyr Ser Val Gly Trp Asp
 305 310 315 320
 Gly Lys Pro Ile Val Arg Glu Arg Val Arg Trp Pro Ile Val Glu Ala
 325 330 335
 Met Gly Thr Ala Tyr Ala Leu Tyr Thr Val Thr Gly Glu Ala Gln Tyr
 340 345 350
 Glu Ala Trp Tyr Gln Lys Trp Trp Asp Tyr Cys Ile Lys Tyr Leu Met
 355 360 365
 Asp Tyr Glu Asn Gly Ser Trp Trp Gln Glu Leu Asp Thr Asn Asn Glu
 370 375 380
 Val Thr Thr Lys Val Trp Asp Gly Lys Gln Asp Ile Tyr His Leu Leu
 385 390 395 400
 His Cys Leu Val Ile Pro Arg Leu Pro Leu Ala Pro Gly Leu Ala Pro
 405 410 415
 Ala Val Ala Ala Gly Leu Leu Asp Ser Gln Ala Lys
 420 425

<210> 10019

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 10019

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Met Ala Thr Gly Thr Leu Pro Asp Ala Gly Gln Ile Leu Asn Ser Leu
1      5      10      15
Ile Asn Ser Ile Leu Leu Val Asp Asp Glu Leu Ala Val His Tyr Ala
20      25      30
Asn Pro Ala Ala Gln Gln Leu Leu Ala Gln Ser Ala Arg Lys Leu Phe
35      40      45
Gly Thr Pro Leu Pro Glu Leu Leu Ser Tyr Phe Ser Leu Asn Ile Gly
50      55      60
Leu Met Gln Glu Ser Leu Gln Ala Gly Gln Gly Phe Thr Asp Asn Glu
65      70      75      80
Val Thr Leu Val Ile Asp Gly Arg Ser His Ile Leu Ser Leu Thr Ala
85      90      95
Gln Arg Leu Pro Asp Gly Met Ile Leu Leu Glu Met Ala Pro Met Asp
100     105     110
Asn Gln Arg Arg Leu Ser Gln Glu Gln Leu Gln His Ala Gln Gln Ile
115     120     125
Ala Ala Arg Asp Leu Val Arg Gly Leu Ala His Glu Ile Lys Asn Pro
130     135     140
Leu Gly Gly Leu Arg Gly Ala Ala Gln Leu Leu Thr Lys Ala Leu Pro
145     150     155     160
Asp Pro Ala Leu Ala Glu Tyr Thr Asn Val Ile Ile Glu Gln Ala Asp
165     170     175
Arg Leu Arg Asn Leu Val Asp Arg Leu Leu Gly Pro Gln Gln Pro Gly
180     185     190
Met His Val Ser Glu Ser Ile His Lys Val Ala Glu Arg Val Val Lys
195     200     205
Leu Val Ser Met Glu Leu Pro Asp Asn Val Thr Leu Val Arg Asp Tyr
210     215     220
Asp Pro Ser Leu Pro Glu Leu Ala His Asp Pro Asp Gln Ile Glu Gln
225     230     235     240
Val Leu Leu Asn Ile Val Arg Asn Ala Leu Gln Ala Leu Gly Pro Glu
245     250     255
Gly Gly Glu Ile Ile Leu Arg Thr Arg Thr Ala Phe Gln Leu Thr Leu
260     265     270
His Gly Val Arg Tyr Arg Leu Ala Ala Arg Ile Asp Val Glu Asp Asn
275     280     285
Gly Pro Gly Ile Pro Pro His Leu Gln Asp Thr Leu Phe Tyr Pro Met
290     295     300
Val Ser Gly Arg Glu Gly Gly Thr Gly Leu Leu Ser Ile Ala Arg
305     310     315     320
Asn Leu Ile Asp Gln His Ser Gly Lys Ile Glu Phe Thr Ser Trp Pro
325     330     335
Gly His Thr Glu Phe Ser Val Phe Leu Pro Ile Lys Lys
340     345     350

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<210> 10020

<211> 495

<212> PRT

<213> Enterobacter cloacae

<400> 10020

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Thr Thr Ala Val Val Ala Ala Thr Glu Val Ala Ala His Pro Asn Asp
1      5      10      15
Gly Pro Gln Arg Asp Gln Asn Gly Pro Pro Tyr Thr Asn Ala Thr Pro
20      25      30
Thr Glu Gly Val Ser Met Ser Val Pro Ser Ile Asp Trp Asp Leu Ala
35      40      45
Leu Ile Gln Lys Tyr Asn Tyr Ser Gly Pro Arg Tyr Thr Ser Tyr Pro

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50	55	60
Thr Ala Leu Glu Phe Ser	Asp Ala Phe Gly Glu Ala Asp Phe Gln His	
65	70	75
Ala Val Ala Arg Tyr Pro	Glu Arg Pro Leu Ser Leu Tyr Val His Ile	80
	85	90
Pro Phe Cys His Lys Leu	Cys Tyr Phe Cys Gly Cys Asn Lys Ile Val	95
	100	105
Thr Arg Gln Gln His Lys	Ala Asp Gln Tyr Leu Asp Ala Leu Glu Gln	110
	115	120
Glu Ile Leu His Arg Ala	Pro Leu Phe Lys Gly Arg His Val Ser Gln	125
	130	135
Leu His Trp Gly Gly Gly	Thr Pro Thr Tyr Leu Asn Lys Ala Gln Ile	140
	145	150
Ser Arg Leu Met Ala Leu	Leu Arg Asp Asn Phe Ser Phe Asn Asp Asp	155
	165	170
Ala Glu Ile Ser Ile Glu	Val Asp Pro Arg Glu Ile Glu Leu Asp Val	175
	180	185
Leu Asp His Leu Arg Ala	Glu Gly Phe Asn Arg Leu Ser Met Gly Val	190
	195	200
Gln Asp Phe Asn Lys Glu	Val Gln Arg Leu Val Asn Arg Glu Gln Asp	205
	210	215
Glu Ala Phe Ile Phe Ala	Leu Leu Asn His Ala Arg Glu Ile Gly Phe	220
	225	230
Thr Ser Thr Asn Ile Asp	Leu Ile Tyr Gly Leu Pro Lys Gln Thr Pro	235
	245	250
Glu Ser Phe Ala Tyr Thr	Leu Lys Arg Val Ala Glu Leu Asn Pro Asp	255
	260	265
Arg Leu Ser Val Phe Asn	Tyr Ala His Leu Pro Thr Leu Phe Ala Ala	270
	275	280
Gln Arg Lys Ile Lys Asp	Ala Asp Leu Pro Ser Ala Gln Gln Lys Leu	285
	290	295
Asp Ile Leu Gln Glu Thr	Ile Ala Ser Leu Thr Glu Thr Gly Tyr Gln	300
	305	310
Phe Ile Gly Met Asp His	Phe Ala Arg Pro Asp Asp Glu Leu Ala Ile	315
	325	330
Ala Gln Arg Glu Gly Val	Leu His Arg Asn Phe Gln Gly Tyr Thr Thr	335
	340	345
Gln Gly Asp Thr Asp Leu	Leu Gly Met Gly Val Ser Ala Ile Ser Met	350
	355	360
Ile Gly Asp Cys Tyr Ala	Gln Asn Gln Lys Glu Leu Lys Leu Tyr Tyr	365
	370	375
Gln Gln Val Asp Glu Thr	Gly Asn Ala Leu Trp Arg Gly Ile Ala Leu	380
	385	390
Thr Arg Asp Asp Cys Ile	Arg Arg Asp Val Ile Lys Ala Leu Ile Cys	395
	405	410
Asn Phe Arg Leu Glu Phe	Arg Glu Val Glu Ser Gln Trp Asp Leu Gln	415
	420	425
Phe Ser Asp Tyr Phe Ala	Glu Asp Leu Lys Leu Leu Ala Pro Leu Ala	430
	435	440
Lys Asp Gly Leu Val Asp	Val Ser Glu Ser Ala Val Val Val Thr Pro	445
	450	455
Lys Gly Arg Leu Leu Ile	Arg Asn Ile Cys Met Cys Phe Asp Ala Tyr	460
	465	470
Leu Arg Gln Lys Ala Arg	Leu Gln Gln Phe Ser Arg Val Ile	475
	485	490
		495

<210> 10021

<211> 323

<212> FRT

<213> Enterobacter cloacae

<400> 10021

Arg Phe Arg Gly Lys Lys Arg Val Arg Ser Gly Cys Trp Trp Arg Lys
 1 5 10 15
 Lys Pro Ile Arg Arg Trp Ala Lys Val Ser Thr Ala Thr Thr Pro Asp
 20 25 30
 Ala Tyr Ala Pro Gly Lys Thr Asn Gln Leu Asn Ala Val Val Gln Phe
 35 40 45
 Glu Leu Asn Arg Val Arg Arg His Ala Asn Ala Val Val Phe Phe Ser
 50 55 60
 Thr Gln Arg Asp Val Ser Val Asp Ser Phe Ile Gly Glu His Ala Ala
 65 70 75 80
 Ser Gly Gln Glu Leu Ala Val Cys Val Gln Arg Leu Gln Gly Phe Phe
 85 90 95
 Gln Arg Ala Gly Asn Leu Trp Asp Leu Phe Arg Phe Phe Trp Arg Gln
 100 105 110
 Val Val Gln Val Phe Val His Gly Phe Ala Arg Val Asp Leu Val Leu
 115 120 125
 Asp Thr Val Gln Thr Gly His Gln Gln Cys Cys Glu Ala Gln Val Trp
 130 135 140
 Val Ser Arg Arg Val Arg Glu Ala His Phe Asp Thr Thr Arg Phe Arg
 145 150 155 160
 Arg Arg Asn His Arg Asp Thr Asp Arg Ser Arg Thr Val Thr Gly Arg
 165 170 175
 Val Arg Gln His His Gly Cys Phe Val Ala Trp Asn Gln Thr Leu Val
 180 185 190
 Gly Val Arg Gly Arg Val Arg Gln Gly Val Asp Arg Phe Ser Val Phe
 195 200 205
 Asp Asn Thr Ala Asp Val Val Gln Arg Leu Leu Arg Gln Thr Arg Ile
 210 215 220
 Leu Val Thr Arg Glu Gln Val Gly Ala Val Leu Gly Gln Gly His Val
 225 230 235 240
 Ala Val His Ala Gly Thr Val Val Ala Lys His Trp Phe Trp His Glu
 245 250 255
 Gly Arg Gly Phe Thr Glu Thr Val Arg Asn Val Val Tyr Asn Val Phe
 260 265 270
 Val Asp Leu Asn Leu Ile Arg Phe Phe Gly His Gly Val Glu Ala Gly
 275 280 285
 Ser Asp Leu Val Leu Ala Ser Arg Cys His Phe Val Val Val Arg Phe
 290 295 300
 Asn Asn Gln Ala His Leu Phe His Asp Gln Thr His Gly Arg Thr Asp
 305 310 315 320
 Val Leu

<210> 10022

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 10022

Arg Ile Asp Arg Arg Asn Arg Glu Val Thr Ala Phe His Ala Trp Thr
 1 5 10 15
 Val Thr Phe Val Thr Thr Phe Val Leu Gly Gly Arg Val Pro Cys Ala
 20 25 30
 Phe Asp Val Ile Asp Ser Asp Val Gly Ala Arg Asn Gly Ser Thr Lys
 35 40 45
 Thr Asp Val Val Glu Gln Glu Glu Leu Trp Leu Trp Pro Glu Gln Asn
 50 55 60
 Gly Val Cys Asp Ala Gly Arg Ala Gln Val Leu Phe Ser Ala Phe Cys
 65 70 75 80
 Asp Gly Ala Trp Val Thr Val Ile Ala Leu Gln Arg Ala Arg Phe Gln

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      85                      90                      95
Asn Ile Ala Ala Asp Asp Gln Arg Arg Phe Phe Val Glu Arg Val Asn
      100                      105                      110
Glu Arg Ser Gly Cys Ile Trp His Gln Asn His Val Gly Phe Val Asn
      115                      120                      125
Ala Phe Pro Ala Ala Asn Gly Gly Ala Val Lys His Phe Ala Phe Phe
      130                      135                      140
Lys Glu Phe Gly Val His Leu Met Ser Arg Asp Arg Asp Val Leu Phe
      145                      150                      155
Phe Thr Phe Ser Ile Gly Glu Ala Gln Ile Asn Lys Leu His Phe Met
      165                      170                      175
Phe Val Gln His Arg Gln Asn Val Phe Ser Gly His Thr
      180                      185                      190

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<210> 10023

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 10023

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Leu Lys Phe Leu Phe Pro Ala Thr Val Thr Ser Pro Arg Arg Lys Glu
1      5      10      15
Ile Asn Met Leu Tyr Ile Phe Asp Leu Gly Asn Val Ile Val Asp Ile
      20      25      30
Asp Phe Asn Arg Val Leu Gly Ala Trp Ser Asp Phe Ser Arg Val Pro
      35      40      45
Leu Ala Thr Leu Lys Gln Asn Phe Ala Met Gly Glu Thr Phe His Leu
      50      55      60
His Glu Arg Gly Glu Ile Ser Asp Glu Ala Phe Ala Glu Arg Phe Cys
      65      70      75      80
Gln Glu Met Gly Leu Ser Leu Ser Tyr Glu Gln Phe Ser His Gly Trp
      85      90      95
Gln Ala Ile Phe Val Ala Ile Arg Pro Glu Val Ile Asp Ile Met His
      100      105      110
Lys Leu Arg Glu Gln Glu His Arg Val Val Val Leu Ser Asn Thr Asn
      115      120      125
Arg Leu His Thr Thr Phe Trp Pro Asp Glu Tyr Pro Glu Ile His Ala
      130      135      140
Ala Ala Asp Lys Val Tyr Leu Ser Gln Glu Met Gly Met Arg Lys Pro
      145      150      155      160
Glu Ala Arg Ile Tyr Gln Ala Val Leu Gln Glu Gly Phe Thr Ala
      165      170      175
Ala Asp Ala Val Phe Phe Asp Asp Asn Ala Asp Asn Ile Glu Gly Ala
      180      185      190
Asn Gln Leu Gly Ile Thr Ser Ile Leu Val Thr Gly Lys Glu Thr Ile
      195      200      205
Pro Asn Tyr Phe Ala Lys Gln Leu Cys
      210      215

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<210> 10024

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 10024

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Ala Leu Ser Pro Thr Gly His Glu Tyr Thr Asn Arg Thr Ile Arg Cys
1      5      10      15
Gly Tyr Ala Gly Phe Ala Gly Glu Arg Trp Pro Arg His Ile Leu Ala
      20      25      30
Pro Gly Met Ser Gln Leu Ala Val Trp Pro Arg Val Thr Arg Glu Ser
      35      40      45

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Thr Ala Met Tyr His Leu Arg Val Pro Gln Thr Glu Glu Glu Leu Asp
 50 55 60
 Ala Tyr Tyr His Phe Arg Trp Glu Met Leu Arg Lys Pro Leu His Gln
 65 70 75 80
 Pro Lys Gly Ser Glu Arg Asp Ala Trp Asp Ala Met Ala His His Gln
 85 90 95
 Met Val Val Asp Glu Glu Gly Asn Leu Val Ala Val Gly Arg Leu Tyr
 100 105 110
 Ile Asn Ala Asp Asn Glu Ala Ser Ile Arg Phe Met Ala Val His Pro
 115 120 125
 Ser Val Gln Asp Lys Gly Leu Gly Thr Leu Met Ala Met Thr Leu Glu
 130 135 140
 Ser Val Ala Arg Gln Glu Gly Val Lys Arg Val Thr Cys Ser Ala Arg
 145 150 155 160
 Glu Asp Ala Val Glu Phe Phe Ala Lys Leu Gly Phe Val Asn Gln Gly
 165 170 175
 Glu Ile Thr Ala Pro Gln Thr Thr Pro Ile Arg His Phe Leu Met Ile
 180 185 190
 Lys Pro Ile Ala Thr Leu Asp Asp Ile Leu His Arg Ala Asp Trp Cys
 195 200 205
 Gly Gln Leu Gln Gln Ala Trp Tyr Gln His Ile Pro Leu Ser Glu Lys
 210 215 220
 Met Gly Val Arg Ile Gln Gln Tyr Thr Gly Gln Lys Phe Ile Thr Thr
 225 230 235 240
 Met Pro Glu Thr Gly Asn Gln Asn Pro His His Thr Leu Phe Ala Gly
 245 250 255
 Ser Leu Phe Ser Leu Ala Thr Leu Thr Gly Trp Gly Leu Ile Trp Leu
 260 265 270
 Met Leu Arg Glu Arg His Leu Gly Gly Thr Ile Ile Leu Ala Asp Ala
 275 280 285
 His Ile Arg Tyr Ser Ala Pro Ile Ser Gly Lys Pro Ser Ala Val Ala
 290 295 300
 Asp Leu Gly Ala Leu Gly Gly Asp Leu Asp Arg Leu Ala Arg Gly Arg
 305 310 315 320
 Lys Ala Arg Val Gln Met Gln Val Glu Leu Phe Gly Asp Glu Thr Pro
 325 330 335
 Gly Ala Val Phe Glu Gly Thr Tyr Ile Val Leu Pro Ala Lys Pro Tyr
 340 345 350
 Gly Ala Tyr Glu Glu Gly Gly Asn Glu Glu Glu
 355 360

<210> 10025

<211> 467

<212> PRT

<213> Enterobacter cloacae

<400> 10025

Met Ala Asp Ala Gly Tyr Cys Ala Ala Asp Ser Gly Ser Gly Asn
 1 5 10 15
 His His Ser Asp Trp Cys Gly Thr Arg Val Arg Val Thr Gly Arg Ala
 20 25 30
 Thr Gly Pro Pro Leu Arg Ile Lys Ile Met Asn Thr Thr Thr Cys Thr
 35 40 45
 His Lys Asp Asn Pro Asn Phe Trp Val Phe Gly Leu Phe Phe Phe Leu
 50 55 60
 Tyr Phe Phe Ile Met Ala Thr Cys Phe Pro Phe Leu Pro Ile Trp Leu
 65 70 75 80
 Ser Asp Ile Ile Gly Leu Asn Lys Thr His Thr Gly Ile Val Phe Ser
 85 90 95
 Cys Ile Ser Leu Ser Ala Ile Ala Phe Gln Pro Val Leu Gly Val Ile
 100 105 110

Ser Asp Lys Leu Gly Leu Lys Lys His Leu Leu Trp Ile Ile Ser Val
 115 120 125
 Leu Leu Phe Leu Phe Ala Pro Phe Phe Leu Tyr Val Phe Ala Pro Leu
 130 135 140
 Leu Lys Thr Asn Ile Trp Leu Gly Ala Leu Ser Gly Gly Leu Tyr Ile
 145 150 155 160
 Gly Phe Val Phe Ser Ala Gly Ser Gly Ala Ile Glu Ala Tyr Ile Glu
 165 170 175
 Arg Val Ser Arg Asn Ser Phe Phe Glu Tyr Gly Lys Ala Arg Met Phe
 180 185 190
 Gly Cys Leu Gly Trp Gly Leu Cys Ala Ser Thr Gly Gly Ile Leu Phe
 195 200 205
 Gly Ile Asp Pro Ser Tyr Val Phe Trp Met Gly Ser Ala Ala Ala Leu
 210 215 220
 Leu Leu Met Leu Leu Leu Val Val Ala Lys Pro Lys Pro Asn Gln Thr
 225 230 235 240
 Ala Gln Val Met Asn Ala Leu Gly Ala Asn Gln Arg Gln Ile Thr Ala
 245 250 255
 Lys Thr Val Phe Asn Leu Phe Arg Gln Arg Arg Met Trp Met Phe Ile
 260 265 270
 Leu Tyr Val Ile Gly Val Ala Cys Val Tyr Asp Val Phe Asp Gln Gln
 275 280 285
 Phe Ala Thr Phe Phe Lys Thr Phe Phe Ala Thr Pro Gln Glu Gly Thr
 290 295 300
 Arg Ala Phe Gly Phe Ala Thr Thr Ala Gly Glu Ile Cys Asn Ala Ile
 305 310 315 320
 Ile Met Phe Cys Ser Pro Trp Ile Ile Asn Arg Ile Gly Ala Lys Asn
 325 330 335
 Thr Leu Leu Ile Ala Gly Val Ile Met Ala Thr Arg Ile Ile Gly Ser
 340 345 350
 Ser Phe Ala Thr Thr Ala Val Glu Val Ile Ala Leu Lys Met Leu His
 355 360 365
 Ala Leu Glu Val Pro Phe Leu Leu Val Gly Ala Phe Lys Tyr Ile Thr
 370 375 380
 Gly Val Phe Asp Thr Arg Leu Ser Ala Thr Ile Tyr Leu Ile Gly Phe
 385 390 395 400
 Gln Phe Ala Lys Gln Ser Ala Ala Ile Phe Leu Ser Ala Phe Ala Gly
 405 410 415
 Asn Met Tyr Asp Arg Val Gly Phe Gln Glu Thr Tyr Leu Ile Leu Gly
 420 425 430
 Cys Phe Val Leu Ala Ile Thr Val Val Ser Ala Phe Thr Leu Ser Gly
 435 440 445
 Arg Arg Glu Ile Ala Ala Thr Ala Gly Ala Ala Ala Leu Thr His Gln
 450 455 460
 Ser Arg
 465

<210> 10026

<211> 293

<212> PRT

<213> *Enterobacter cloacae*

<400> 10026

Cys Pro Val Ile Arg Arg Arg Gly Cys Gly Val Ala Ala Gln Leu Ile
 1 5 10 15
 Leu Arg Lys Asp Asp Phe Phe Ala Ser Ala Ser Gln Ala Val Ala Val
 20 25 30
 Ala Asp Arg Tyr Pro Gln Asn Val Phe Ala Glu His Thr His Glu Phe
 35 40 45
 Cys Glu Leu Val Leu Val Trp Arg Gly Asn Gly Leu His Val Leu Asn
 50 55 60

Asp Arg Pro Tyr Arg Ile Thr Arg Gly Asp Leu Phe Tyr Ile Arg Ala
 65 70 75 80
 Glu Asp Lys His Ser Tyr Ala Ser Val Asn Asp Leu Val Leu Gln Asn
 85 90 95
 Val Ile Tyr Cys Pro Asp Arg Leu Lys Leu Asn Val Asp Trp Ala Gly
 100 105 110
 Asn Ile Pro Gly Phe His Asn Ala Arg Gly Glu Pro His Trp Arg Leu
 115 120 125
 Ser Ser Asn Gly Met Ala Gln Val Arg Gln Thr Ile Ser Gln Leu Glu
 130 135 140
 Gln Glu Ser Gln Lys Ser Asp Pro Ala Ala Asn Gln Met Ser Glu Leu
 145 150 155 160
 Leu Phe Ala Gln Leu Val Met Thr Leu Lys Arg His Arg Tyr Ala Thr
 165 170 175
 Asp Asn Pro Ser Ala Thr Met Gln Glu Ala Leu Leu Asp Lys Leu Ile
 180 185 190
 Thr Arg Leu Ala Gly Ser Leu Asn Lys Ser Phe Val Leu Asp Lys Phe
 195 200 205
 Cys Glu Gln Glu Gln Cys Ser Glu Arg Ala Leu Arg Gln Gln Phe Arg
 210 215 220
 Thr Gln Thr Gly Met Thr Val Asn His Tyr Leu Arg Gln Leu Arg Ile
 225 230 235 240
 Cys His Ala Gln Tyr Leu Leu Gln His Thr Glu Leu Met Val Ser Glu
 245 250 255
 Val Ala Met Arg Cys Gly Phe Glu Asp Ser Asn Tyr Phe Ser Val Val
 260 265 270
 Phe Asn Arg Glu Val Gly Met Thr Pro Val Gln Trp Arg His Arg Ser
 275 280 285
 Arg Lys Ala Ala
 290

<210> 10027

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 10027

Gln Leu Cys Arg Pro Thr Ile Met Glu Arg Ile Met Ser Tyr Thr Leu
 1 5 10 15
 Pro Ser Leu Pro Tyr Ala Tyr Asp Ala Leu Glu Pro His Phe Asp Lys
 20 25 30
 Gln Thr Met Glu Ile His His Thr Lys His His Gln Thr Tyr Val Asn
 35 40 45
 Asn Ala Asn Ala Ala Leu Glu Ser Leu Pro Glu Phe Ala Asn Leu Pro
 50 55 60
 Val Glu Glu Leu Ile Thr Lys Leu Asp Gln Leu Pro Ala Asp Lys Lys
 65 70 75 80
 Thr Val Leu Arg Asn Asn Ala Gly Gly His Ala Asn His Ser Leu Phe
 85 90 95
 Trp Lys Gly Leu Lys Thr Gly Thr Thr Leu Gln Gly Asp Leu Lys Ala
 100 105 110
 Ala Ile Glu Arg Asp Phe Gly Ser Val Asp Asn Phe Lys Ala Glu Phe
 115 120 125
 Glu Lys Ala Ala Ala Thr Arg Phe Gly Ser Gly Trp Ala Trp Leu Val
 130 135 140
 Leu Lys Gly Asp Lys Leu Ala Val Val Ser Thr Ala Asn Gln Asp Ser
 145 150 155 160
 Pro Leu Met Gly Glu Ala Ile Ser Gly Ala Ser Gly Phe Pro Ile Leu
 165 170 175
 Gly Leu Asp Val Trp Glu His Ala Tyr Tyr Leu Lys Phe Gln Asn Arg
 180 185 190

Arg Pro Asp Tyr Ile Lys Ala Phe Trp Asp Val Val Asn Trp Asp Glu
 195 200 205
 Ala Ala Ala Arg Phe Ala Ala Lys Lys
 210 215

<210> 10028

<211> 235

<212> PRT

<213> Enterobacter cloacae

<400> 10028

Leu Ala Phe Phe Val Ser Glu Gly Val Glu Met His Tyr Pro Val Asn
 1 5 10 15
 Val Phe Thr Gly Lys Val Arg Glu Tyr Glu Gly Ser Arg Pro Ser Ala
 20 25 30
 Ile Ala Lys Val Gln Val Asp Gly Glu Leu Thr Leu Thr Asp Leu Gly
 35 40 45
 Leu Ala Gly Asp Gln Gln Ala Glu Lys Lys Ile His Gly Gly Pro Asp
 50 55 60
 Arg Ala Leu Cys His Tyr Pro Arg Glu His Tyr Gln His Trp Lys Thr
 65 70 75 80
 Glu Phe Pro Glu Gln Ala Asp Leu Phe Val Ala Pro Ala Phe Gly Glu
 85 90 95
 Asn Leu Ser Thr Glu Gly Leu Thr Glu Lys Asn Val Phe Ile Gly Asp
 100 105 110
 Ile Tyr Arg Trp Gly Asp Ala Leu Ile Gln Val Thr Gln Pro Arg Ser
 115 120 125
 Pro Cys Phe Lys Leu Asn Tyr His Phe Gly Ile Gln Asp Met Ser Ala
 130 135 140
 Gln Leu Gln Asn Ala Gly Lys Thr Gly Trp Leu Tyr Arg Val Val Gln
 145 150 155 160
 Ala Gly Gln Val Ser Ala Asp Ala Pro Leu Glu Leu Ala Ser Arg Leu
 165 170 175
 Ser Glu Val Ser Val Tyr Glu Ala Cys Ala Ile Ala Trp His Met Pro
 180 185 190
 Phe Asp Asp Asp Gln Tyr His Arg Leu Leu Ser Ala Ala Gly Leu Ser
 195 200 205
 Thr Ser Trp Thr Arg Thr Met Gln Lys Arg Arg Ile Ser Gly Lys Ile
 210 215 220
 Glu Ser Ser Ser Arg Arg Leu Trp Gly Lys
 225 230 235

<210> 10029

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 10029

Leu Tyr Val Val Leu His Pro Leu Thr His Val Cys Ser Leu Asn Arg
 1 5 10 15
 Arg Leu Ser Leu Val Glu Ser Arg His Glu Arg Phe Trp Glu Gln Val
 20 25 30
 Met Arg Lys Val Thr Ala Ala Val Met Ala Ser Thr Leu Ala Phe Ser
 35 40 45
 Ala Phe Ser Gln Ala Ala Val Ala Ile Ile Ser Asp Asn Gly Ser Ser
 50 55 60
 Ala Glu Gly Ala Thr Gln His Ser Ser Gln Ser His Met Phe Asp Gly
 65 70 75 80
 Ile Ser Leu Thr Glu His Gln Arg Gln Gln Met Arg Asp Leu Met Gln
 85 90 95
 Arg Ala Arg His Asp Gln Pro Pro Val Asn Val Ser Glu Met Glu Thr

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<210> 10030
<211> 303
<212> PRT
<213> Enterobacter cloacae
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<210> 10031
<211> 94
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<212> PRT

<213> Enterobacter cloacae

<400> 10031

Lys Thr Val Thr Lys Gln His Lys Pro Lys Ser Glu Lys Pro Met Leu
 1 5 10 15
 Ser Pro Gln Ala Glu Leu Asp Leu Leu Asn Asp Glu Arg Leu Asp
 20 25 30
 Ala Leu Leu Glu Arg Leu Glu Glu Gly Glu Thr Leu Thr Ala Glu Glu
 35 40 45
 Gln Ser Trp Val Asp Ala Lys Leu Asp Arg Ile Asp Glu Leu Met Gln
 50 55 60
 Lys Leu Gly Leu Ser Tyr Asp Asp Glu Asp Glu Glu Glu Asp Glu
 65 70 75 80
 Lys Gln Glu Asp Met Met Arg Leu Leu Lys Gly Gly Asn
 85 90

<210> 10032

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 10032

Thr Phe Gly Glu Ile Lys Met Lys Ala Ser Glu Ile Ala Glu Gly Ile
 1 5 10 15
 Thr Met Thr Arg Ile Val Cys Val Gly Ile Thr Val Leu Asp Arg Ile
 20 25 30
 Trp Tyr Leu Asp Asp Leu Pro Lys Glu Gly Gly Lys Tyr Val Ala Lys
 35 40 45
 Asp Tyr Thr Glu Val Gly Gly Gly Pro Ala Ala Thr Ala Ala Val Ala
 50 55 60
 Ala Ala Lys Leu Gly Ala Glu Val Asp Phe Ile Gly Arg Val Gly Asp
 65 70 75 80
 Asp Asp Thr Gly Arg Arg Leu Leu Ala Glu Leu Glu Ser Leu Gly Val
 85 90 95
 Asn Thr Arg Tyr Thr Arg Val Val Lys Gly Ala Arg Ser Ser Gln Ser
 100 105 110
 Ala Val Leu Val Asp Gly Ser Gly Glu Arg Val Ile Ala Asn Tyr Ser
 115 120 125
 Ser Pro Asp Leu Pro Ala Val Ala Asp Trp Leu Gln Ile Asp Phe
 130 135 140
 Ser Gln Trp Asp Ile Val Leu Ala Asp Val Arg Trp His Asp Gly Ala
 145 150 155 160
 Lys Gln Ala Phe Thr Leu Ala Arg Gln Gln Gly Val Pro Thr Leu Leu
 165 170 175
 Asp Ala Asp Val Thr Pro Gln Asp Ile Ala Glu Leu Ile Ala Leu Ser
 180 185 190
 Asp His Ala Ala Phe Ser Ala Pro Gly Leu Arg Arg Leu Thr Gln Arg
 195 200 205
 Asp Asp Thr Glu Asp Ala Leu Lys Lys Ala Gln Thr Leu Thr Asn Gly
 210 215 220
 His Val Tyr Val Thr Gln Gly Arg Asp Gly Cys Phe Trp Leu Glu Asn
 225 230 235 240
 Gly Ala Leu Cys His Gln Pro Gly Phe Glu Val Asn Val Val Asp Thr
 245 250 255
 Thr Gly Ala Gly Asp Val Phe His Gly Ala Leu Ala Val Ser Leu Gly
 260 265 270
 Gln Lys Leu Pro Ala Ala Asp Ala Val Arg Phe Ala Ser Ala Val Ala
 275 280 285
 Ala Leu Lys Cys Thr Lys Pro Gly Gly Arg Ala Gly Ile Pro Asp Cys
 290 295 300

Asp Gln Thr Arg Ser Phe Leu Ser Leu Phe Val
305 310 315

<210> 10033

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 10033

Lys Thr Thr Arg Ser Arg Pro Thr Met Ile Ala Leu Ile Gln Arg Val
1 5 10 15
Thr Arg Ala Ser Val Thr Val Ala Asp Glu Val Thr Gly Glu Ile Gly
20 25 30
Pro Gly Leu Leu Val Leu Leu Gly Val Glu Lys Asp Asp Glu Gln
35 40 45
Lys Ala Asn Arg Leu Cys Glu Arg Val Leu Gly Tyr Arg Ile Phe Ser
50 55 60
Asp Ala Glu Gly Lys Met Asn Leu Asn Val Gln Gln Ala Gly Gly Ser
65 70 75 80
Val Leu Val Val Ser Gln Phe Thr Leu Ala Ala Asp Thr Glu Arg Gly
85 90 95
Met Arg Pro Ser Phe Ser Lys Gly Ala Ala Pro Glu Arg Ala Glu Ala
100 105 110
Leu Tyr Glu Tyr Phe Val Glu Arg Cys Arg Gln Gln Asp Met Asn Thr
115 120 125
Gln Thr Gly Arg Phe Ala Ala Asp Met Gln Val Ser Leu Val Asn Asp
130 135 140
Gly Pro Val Thr Phe Trp Leu Gln Val
145 150

<210> 10034

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 10034

Gly Ala Gly Ala Arg Tyr Ala Arg Ala Ala Gly Gly Gly Thr Lys Leu
1 5 10 15
Lys Lys Ile Arg Lys Ile Met Ser Leu Lys Ala Ile Ala Lys Glu Leu
20 25 30
Gly Leu Ser Val Thr Thr Val Ser Arg Ala Leu Asn Gly Tyr Asp Asp
35 40 45
Val Ser Ala Glu Thr Arg Ala Arg Val Glu Ala Glu Ala Gln Arg Arg
50 55 60
Gly Tyr Arg Pro Asn Thr Phe Ala Arg Arg Leu Lys Met Gly Lys Ile
65 70 75 80
Asp Ala Val Gly Leu Val Phe Pro Val His Pro Val Pro Leu Asn Asn
85 90 95
Ser Val Phe Met Asp Met Val Gly Glu Ile Ser His Glu Leu Ala Arg
100 105 110
His Glu Ile Asp Leu Leu Leu Ile Ala Asp Asp Asp Leu Ala Asp Lys
115 120 125
His Ser Tyr Met Arg Met Val Gln Ser Arg Arg Val Asp Ala Leu Ile
130 135 140
Val Ala His Thr Leu Asp His Asp Pro Arg Leu Glu Gln Leu Gln Ala
145 150 155 160
Ala Gly Phe Pro Phe Leu Ala Leu Gly Arg Ser Gln Leu Pro Gln Pro
165 170 175
Tyr Ala Trp Phe Asp Phe Asp Asn Tyr Ala Gly Thr Tyr Gln Ala Thr
180 185 190
Arg Trp Leu Ile Glu Lys Gly His Gln Arg Ile Ala Leu Leu Gly Glu

195 200 205
 Ser Asn Asn Gln Ala Phe Ile Thr Gln Arg Arg Gln Gly Tyr Leu Asp
 210 215 220
 Ala Leu Arg Glu Ala Gly Leu Ser Ser Glu Trp Leu Arg Ala Met Pro
 225 230 235 240
 Pro Ser Arg Arg Val Gly Tyr Ala Thr Thr Gln Glu Leu Leu Ser Leu
 245 250 255
 Pro Gln Pro Pro Thr Ala Ile Ile Thr Asp Cys Asn Thr His Gly Asp
 260 265 270
 Gly Ala Ala Met Ala Leu Ala Gln Met Gly Arg Leu Thr Gly Glu Asn
 275 280 285
 Ala Val Ser Leu Val Val Tyr Asp Gly Leu Pro Gln Asp Ser Ile Val
 290 295 300
 Asp Ile Asp Val Ala Ala Val Ile Gln Ser Thr Arg Gln Gly Val Gly
 305 310 315 320
 Lys Gln Ile Ala Asp Met Val Arg Gln Leu Ile Asn Gly Asp Asp Ile
 325 330 335
 Asp Thr Leu Gln Val Leu Trp Gln Pro Glu Phe Ser Pro Gly Gln Thr
 340 345 350
 Ala

<210> 10035
 <211> 743
 <212> PRT
 <213> Enterobacter cloacae

<400> 10035
 Ser His Glu Lys Phe Gln Thr Arg Ser Gln Ile Arg Asn Val Leu Val
 1 5 10 15
 Cys Ile Arg Asn Val Ser Asp Gln Asn Ser Gly His Pro Asp Asp Arg
 20 25 30
 Arg Cys Pro Met Gln Asp Ala Ile Phe Arg Leu Glu Ser Asn Thr Val
 35 40 45
 Asp Val Val Leu Lys Thr His Pro Phe Ala Glu Ile Leu Tyr Trp Gly
 50 55 60
 Pro His Leu Gln His Phe Ser Pro Gln Asp Val Leu Ser Ile Ala Arg
 65 70 75 80
 Pro Val Ala Asn Gly Arg Leu Asp Val Asp Ser Pro Val Thr Leu Met
 85 90 95
 Ala Glu Leu Gly His Gly Leu Phe Gly Ser Pro Gly Ile Glu Gly His
 100 105 110
 Arg Gln Gly Leu Asp Gly Ser Pro Val Phe Lys Thr Thr Gln Val Gln
 115 120 125
 Gln Ala Leu Asn Ala Leu Thr Ile Thr Ala Glu Asp Glu His Ala Gly
 130 135 140
 Leu Arg Leu Thr Ser Glu Ile Thr Leu Asp Ala Ser Gly Val Leu Val
 145 150 155 160
 Val Arg His Gly Leu Thr Asn Leu Lys Thr Leu Ala Trp Gln Val Asp
 165 170 175
 Arg Phe Ala Val Thr Leu Pro Val Ala Glu Arg Ala Gln Glu Val Met
 180 185 190
 Ala Phe His Gly Arg Trp Ile Arg Glu Phe Gln Pro His Arg Val Thr
 195 200 205
 Leu Glu His Asp Ser Phe Val Ile Glu Asn Arg Arg Gly Lys Thr Ser
 210 215 220
 His Glu His Phe Pro Ala Leu Ile Ser Gly Thr Pro Ser Phe Ser Glu
 225 230 235 240
 Met His Gly His Val Trp Gly Val His Leu Gly Trp Ser Gly Asn His
 245 250 255
 Arg Leu Arg Ala Glu Ala Lys Thr Asp Gly Arg Arg Tyr Met Gln Ala

260 265 270
 Glu Ala Leu Tyr Leu Pro Gly Glu Met Ala Ile Glu Glu Gly Glu Thr
 275 280 285
 Leu Trp Thr Pro Arg Leu Tyr Ala Ser His Ser Pro His Gly Leu Asn
 290 295 300
 Gly Met Ser Gln Gln Phe His Arg Tyr Leu Arg Asp Asn Val Ile Arg
 305 310 315 320
 Phe Pro Glu Asp Lys Pro Arg Pro Val His Leu Asn Thr Trp Glu Gly
 325 330 335
 Ile Tyr Phe Asp His Asp Pro Asp Tyr Ile Met Arg Met Ala Asp Glu
 340 345 350
 Ala Ala Ala Leu Gly Val Glu Arg Phe Ile Ile Asp Asp Gly Trp Phe
 355 360 365
 Lys Gly Arg Asn Asp Asp His Ala Ala Leu Gly Asp Trp Tyr Leu Asp
 370 375 380
 Glu Lys Lys Tyr Pro Asn Gly Leu Lys Pro Val Ile Asp His Val Lys
 385 390 395 400
 Gln Leu Gly Met Glu Phe Gly Ile Trp Val Glu Pro Glu Met Ile Asn
 405 410 415
 Pro Asp Ser Asp Leu Tyr Arg Ala His Pro Asp Trp Val Leu Ala Leu
 420 425 430
 Pro Gly Tyr Ala Gln Ala Thr Gly Arg His Gln Leu Val Leu Asn Leu
 435 440 445
 Asn Ile Pro Gln Ala Phe Asp Tyr Leu Val Glu Arg Met Ser Trp Leu
 450 455 460
 Leu Gly Glu His Ala Val Asp Tyr Val Lys Trp Asp Met Asn Arg Glu
 465 470 475 480
 Leu Val Gln Pro Gly His Lys Gly Lys Ala Ala Asp Ala Gln Thr
 485 490 495
 Arg Gln Phe Tyr Arg Leu Leu Asp Val Leu Gly Glu Arg Phe Pro His
 500 505 510
 Ile Glu Phe Glu Ser Cys Ser Ser Gly Gly Gly Arg Ile Asp Tyr Glu
 515 520 525
 Val Leu Thr Arg Cys His Arg Phe Trp Ala Ser Asp Asn Asn Asp Ala
 530 535 540
 Leu Glu Arg Asn Thr Ile Gln Arg Gly Met Ser Tyr Phe Phe Pro Pro
 545 550 555 560
 Glu Val Met Gly Ala His Ile Gly His His Lys Cys His Ala Thr Phe
 565 570 575
 Arg Gln His Ser Ile Gln Phe Arg Gly Leu Thr Ala Leu Phe Gly His
 580 585 590
 Met Gly Leu Glu Leu Asp Pro Leu Thr Val Asp Ala Gln Glu Arg Glu
 595 600 605
 Gly Tyr Arg His Tyr Ala Ala Leu Tyr Lys Arg Trp Arg Gly Val Ile
 610 615 620
 His His Gly Thr Gln Trp Arg Val Asp Met Pro Asp Ala Thr Thr Leu
 625 630 635 640
 Ala Gln Gly Ile Val Ser Glu Asp Lys Thr Gln Gly Leu Phe Leu Val
 645 650 655
 Ser Gln Leu Ala Met Pro Asp Tyr Thr Leu Met Met Pro Leu Arg Met
 660 665 670
 Pro Gly Leu Asp Ala Ser Ala Gln Tyr Arg Ile Thr Leu Leu Asp His
 675 680 685
 Pro Asn Ile Gln Ile Thr Gly Glu Gly Gly His Thr Met Arg Lys Leu
 690 695 700
 Pro Ala Trp Met Asp Ala Pro Gln Thr Val Ser Gly Glu Trp Leu Met
 705 710 715 720
 Gln Ala Gly Ile Ala Leu Pro Ile Leu Asp Pro Glu Thr Thr Ile Leu
 725 730 735
 Ile Gly Val Glu Arg Val
 740

<210> 10036
 <211> 365
 <212> PRT
 <213> Enterobacter cloacae

<400> 10036
 Ile Thr Thr Ile Trp Pro Asp Leu Asn Gln Phe Ser Trp Lys Gly Leu
 1 5 10 15
 Ile Tyr Tyr Leu Gln Tyr Ser Thr Val Glu Gln Phe Leu Pro Ala Ala
 20 25 30
 Asp Phe Asn Phe Ala Phe Leu Ser Ser Glu Val Val Met Ile Lys Lys
 35 40 45
 Ile Gly Val Leu Thr Ser Gly Gly Asp Ala Pro Gly Met Asn Ala Ala
 50 55 60
 Ile Arg Gly Val Val Arg Ala Ala Leu Thr Glu Gly Leu Glu Val Phe
 65 70 75 80
 Gly Ile Tyr Asp Gly Tyr Leu Gly Leu Tyr Glu Asp Arg Met Val Gln
 85 90 95
 Leu Asp Arg Tyr Ser Val Ser Asp Met Ile Asn Arg Gly Gly Thr Phe
 100 105 110
 Leu Gly Ser Ala Arg Phe Pro Glu Phe Arg Asp Glu His Ile Arg Glu
 115 120 125
 Val Ala Ile Glu Asn Met Lys Lys Arg Gly Leu Asp Ala Leu Val Val
 130 135 140
 Ile Gly Gly Asp Gly Ser Tyr Met Gly Ala Lys Arg Leu Thr Glu Met
 145 150 155 160
 Gly Phe Pro Cys Ile Gly Leu Pro Gly Thr Ile Asp Asn Asp Ile Lys
 165 170 175
 Gly Thr Asp Tyr Thr Ile Gly Tyr Phe Thr Ala Leu Gly Thr Val Val
 180 185 190
 Glu Ala Ile Asp Arg Leu Arg Asp Thr Ser Ser Ser His Gln Arg Ile
 195 200 205
 Ser Ile Val Glu Val Met Gly Arg Tyr Cys Gly Asp Leu Thr Leu Ala
 210 215 220
 Ala Ala Ile Ala Gly Gly Cys Glu Phe Val Val Val Pro Glu Val Glu
 225 230 235 240
 Phe Ser Arg Glu Asp Leu Val Ala Glu Ile Lys Ala Gly Ile Ala Lys
 245 250 255
 Gly Lys Lys His Ala Ile Val Ala Ile Thr Glu His Ile Cys Asp Val
 260 265 270
 Asp Glu Leu Ala Lys Tyr Ile Glu Thr Glu Thr Lys Arg Glu Thr Arg
 275 280 285
 Ala Thr Val Leu Gly His Ile Gln Arg Gly Gly Ser Pro Gly Pro Tyr
 290 295 300
 Asp Arg Ile Leu Ala Ser Arg Met Gly Ala Tyr Ala Ile Glu Leu Leu
 305 310 315 320
 Leu Gln Gly His Gly Gly Arg Cys Val Gly Ile Gln Asn Glu Lys Leu
 325 330 335
 Val His His Asp Ile Ile Asp Ala Ile Glu Asn Met Lys Arg Pro Phe
 340 345 350
 Lys Gly Asp Trp Leu Asp Cys Ala Lys Lys Leu Tyr
 355 360 365

<210> 10037
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 10037
 Ser Ser Val Ser Phe Leu Ala Arg Cys Ile His Gln Asn Thr Thr Gln

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1           5           10           15
Glu Ser Trp Ala Met Asn Lys Trp Gly Val Gly Leu Thr Leu Leu Leu
20          25          30
Ala Ser Thr Ser Val Leu Ala Lys Asp Ile Gln Leu Leu Asn Val Ser
35          40          45
Tyr Asp Pro Thr Arg Glu Leu Tyr Asp Gln Tyr Asn Lys Ala Phe Ala
50          55          60
Ala His Trp Lys Gln Glu Thr Gly Asp Asn Val Val Val Arg Gln Ser
65          70          75          80
His Gly Gly Ser Gly Lys Gln Ala Thr Ser Val Ile Asn Gly Ile Glu
85          90          95
Ala Asp Val Val Thr Leu Ala Leu Ala Tyr Asp Val Asp Ala Ile Ala
100         105         110
Glu Arg Gly Arg Ile Asp Lys Asn Trp Ile Lys Arg Leu Pro Asp Asn
115         120         125
Ser Ala Pro Tyr Thr Ser Thr Ile Val Phe Leu Val Arg Lys Gly Asn
130         135         140
Pro Lys Gln Ile Lys Asp Trp Asn Asp Leu Ile Lys Pro Gly Val Ser
145         150         155         160
Val Ile Thr Pro Asn Pro Lys Ser Ser Gly Ala Arg Trp Asn Tyr
165         170         175
Leu Ala Ala Trp Gly Tyr Ala Leu His His Asn Asn Gly Asp Gln Ala
180         185         190
Lys Ala Gln Asp Phe Val Lys Ala Leu Phe Lys Asn Val Glu Val Leu
195         200         205
Asp Ser Gly Ala Arg Gly Ala Thr Asn Thr Phe Val Glu Arg Gly Ile
210         215         220
Gly Asp Val Leu Ile Ala Trp Glu Asn Glu Ala Leu Leu Ala Thr Asn
225         230         235         240
Glu Leu Gly Lys Asp Lys Phe Glu Ile Val Thr Pro Ser Glu Ser Ile
245         250         255
Leu Ala Glu Pro Thr Val Ser Val Val Asp Lys Val Val Asp Lys Lys
260         265         270
Gly Thr Lys Ala Val Ala Glu Ala Tyr Leu Lys Tyr Leu Tyr Ser Pro
275         280         285
Glu Gly Gln Glu Ile Ala Ala Lys Asn Phe Tyr Arg Pro Arg Asp Glu
290         295         300
Ala Val Ala Lys Lys Tyr Glu Asn Ala Phe Pro Lys Leu Lys Leu Phe
305         310         315         320
Thr Ile Asp Asp Val Phe Gly Gly Trp Thr Lys Ala Gln Lys Glu His
325         330         335
Phe Ser Asn Gly Gly Thr Phe Asp Gln Ile Ser Lys Arg
340         345         350

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<210> 10038

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 10038

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Glu Ile Arg Arg Val Phe Tyr Leu Val Ile Ile Leu Arg Tyr Ser Phe
1           5           10           15
Ala Ser Ile Glu Asn Arg Glu Arg Val Val Lys Lys Ile Ile Leu Leu
20          25          30
Ile Leu Ile Val Ile Ala Leu Ala Ala Gly Gly Val Tyr Trp Met Lys
35          40          45
Ala Gly Asn Pro Asn Ala Leu Arg His Ile Val Leu Asp Gln Cys Val
50          55          60
Pro Asn Gln Leu His Asn Arg Asn Pro Ala Pro Cys Ala Gln Val Lys
65          70          75          80
Pro Asp Ala Gly Tyr Val Val Phe Lys Asp Arg Asn Gly Pro Leu Gln

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<210> 10039
<211> 611
<212> PRT
<213> Enterobacter cloacae
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400> 10039																	
Gly	Lys	Val	Val	5	Ile	Glu	Lys	Leu	Arg	Asn	Ile	Ala	Ile	Ile	Ala	His	15
1	Val	Asp	His	Gly	20	Lys	Thr	Thr	Leu	Val	Asp	Lys	Leu	Leu	Gln	Gln	Ser
										25					30		
Gly	Thr	Phe	Asp	Ala	Arg	Ala	Glu	Thr	Gln	Glu	Arg	Val	Met	Asp	Ser		
								40						45			
Asn	Asp	Leu	Glu	Lys	Glu	Arg	Gly	Ile	Thr	Ile	Leu	Ala	Lys	Asn	Thr		
							55				60						
Ala	Ile	Lys	Trp	Asn	Asp	Tyr	Arg	Ile	Asn	Ile	Val	Asp	Thr	Pro	Gly		
65							70				75				80		
His	Ala	Asp	Phe	Gly	Gly	Glu	Val	Glu	Arg	Val	Met	Ser	Met	Val	Asp		
										90				95			
Ser	Val	Leu	Leu	Val	Val	Asp	Ala	Phe	Asp	Gly	Pro	Met	Pro	Gln	Thr		
									105				110				
Arg	Phe	Val	Thr	Lys	Lys	Ala	Phe	Ala	His	Gly	Leu	Lys	Pro	Ile	Val		
								120				125					
Val	Ile	Asn	Lys	Val	Asp	Arg	Pro	Gly	Ala	Arg	Pro	Asp	Trp	Val	Val		
							135				140						
Asp	Gln	Val	Phe	Asp	Leu	Phe	Val	Asn	Leu	Asp	Ala	Thr	Asp	Glu	Gln		
145						150				155				160			
Leu	Asp	Phe	Pro	Ile	Val	Tyr	Ala	Ser	Ala	Leu	Asn	Gly	Ile	Ala	Gly		
						165				170				175			
Leu	Asp	His	Glu	Asp	Met	Ala	Glu	Asp	Met	Thr	Pro	Leu	Tyr	Gln	Thr		
						180				185				190			
Ile	Val	Asp	Arg	Val	Pro	Ala	Pro	Asn	Val	Asp	Leu	Glu	Gly	Thr	Leu		
							200					205					
Gln	Met	Gln	Ile	Ser	Gln	Leu	Asp	Tyr	Asn	Asn	Tyr	Val	Gly	Val	Ile		
							215				220						
Gly	Ile	Gly	Arg	Ile	Lys	Arg	Gly	Lys	Val	Lys	Pro	Asn	Gln	Gln	Val		

225 230 235 240
 Thr Ile Ile Asp Ser Glu Gly Lys Thr Arg Asn Gly Lys Val Gly Lys
 245 250 255
 Val Leu Thr His Leu Gly Leu Glu Arg Ile Glu Ser Asp Ile Ala Glu
 260 265 270
 Ala Gly Asp Ile Ile Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser
 275 280 285
 Asp Thr Ile Cys Asp Pro Gln Asn Val Glu Ala Leu Pro Ala Leu Ser
 290 295 300
 Val Asp Glu Pro Thr Val Ser Met Phe Phe Asn Val Asn Thr Ser Pro
 305 310 315 320
 Phe Cys Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile Leu Asp
 325 330 335
 Arg Leu Asn Lys Glu Leu Val His Asn Val Ala Leu Arg Val Glu Glu
 340 345 350
 Thr Glu Asp Ala Asp Ala Phe Arg Val Ser Gly Arg Gly Glu Leu His
 355 360 365
 Leu Ser Val Leu Ile Glu Asn Met Arg Arg Glu Gly Phe Glu Met Ala
 370 375 380
 Val Ser Arg Pro Lys Val Ile Phe Arg Glu Ile Asp Gly Arg Lys Gln
 385 390 395 400
 Glu Pro Phe Glu Asn Val Thr Leu Asp Val Glu Glu Gln His Gln Gly
 405 410 415
 Ser Val Met Gln Ala Leu Gly Glu Arg Lys Gly Asp Leu Lys Asn Met
 420 425 430
 Asn Pro Asp Gly Lys Gly Arg Val Arg Leu Asp Tyr Val Ile Pro Ser
 435 440 445
 Arg Gly Leu Ile Gly Phe Arg Ser Glu Phe Met Thr Met Thr Ser Gly
 450 455 460
 Thr Gly Leu Leu Tyr Ser Thr Phe Ser His Tyr Asp Asp Val Arg Pro
 465 470 475 480
 Gly Glu Val Gly Gln Arg Asn Asn Gly Val Leu Ile Ser Asn Gly Gln
 485 490 495
 Gly Lys Ala Val Ala Phe Ala Leu Phe Gly Leu Gln Asp Arg Gly Lys
 500 505 510
 Leu Phe Leu Gly His Gly Ala Glu Val Tyr Glu Gly Gln Ile Ile Gly
 515 520 525
 Ile His Ser Arg Ser Asn Asp Leu Thr Val Asn Cys Leu Thr Gly Lys
 530 535 540
 Lys Leu Thr Asn Met Arg Ala Ser Gly Thr Asp Glu Ala Thr Val Leu
 545 550 555 560
 Val Pro Pro Ile Lys Met Thr Leu Glu Gln Ala Leu Glu Phe Ile Asp
 565 570 575
 Asp Asp Glu Leu Val Glu Val Thr Pro Gln Ser Ile Arg Ile Arg Lys
 580 585 590
 Arg His Leu Thr Glu Asn Asp Arg Lys Arg Ala Met Arg Gly Ala Lys
 595 600 605
 Glu Asp
 610

<210> 10040

<211> 304

<212> PRT

<213> *Enterobacter cloacae*

<400> 10040

Asn Ala Gln Ser Pro Ala Gly Ala Arg Val Tyr Pro Thr Val Ile Lys
 1 5 10 15
 Pro Ala Leu Phe Cys His Phe Leu Tyr Lys Met Arg Gly Val Met Val
 20 25 30
 Phe Arg Gly Gln Pro Met Ser Leu Thr Glu Leu Thr Gly Asn Pro Arg

35 40 45
 His Asp Gln Leu Leu Thr Leu Ile Ala Asp Arg Gly Tyr Met Asn Ile
 50 55 60
 Asp Glu Leu Ala Gln Leu Leu Asp Val Ser Thr Gln Thr Val Arg Arg
 65 70 75 80
 Asp Ile Arg Lys Leu Ser Glu Gln Gly Leu Ile Thr Arg His His Gly
 85 90 95
 Gly Ala Gly Arg Ala Ser Ser Val Val Asn Thr Ala Phe Glu Gln Arg
 100 105 110
 Glu Val Ser Leu Thr Glu Glu Lys Arg Ala Ile Ala Glu Ala Ile Ala
 115 120 125
 Asp Tyr Ile Pro Asp Gly Ser Thr Ile Phe Ile Thr Ile Gly Thr Thr
 130 135 140
 Val Glu His Val Ala Arg Ala Leu Leu Asn His Asn His Leu Arg Ile
 145 150 155 160
 Ile Thr Asn Ser Leu Arg Val Ala His Ile Leu Tyr Lys Asn Pro Arg
 165 170 175
 Phe Glu Val Met Val Pro Gly Gly Thr Leu Arg Pro His Asn Gly Gly
 180 185 190
 Ile Ile Gly Pro Ala Ala Thr Ala Phe Val Ser Gly Phe Arg Ala Asp
 195 200 205
 Tyr Leu Val Thr Ser Val Gly Ala Ile Glu His Asp Gly Ala Met Met
 210 215 220
 Glu Phe Asp Val Asn Glu Ala Ser Val Val Lys Thr Met Ile Ala His
 225 230 235 240
 Ser Arg His Ile Leu Leu Ala Ala Asp His Thr Lys Tyr His Ala Ser
 245 250 255
 Ala Ala Val Glu Ile Gly Asn Val Ala Gln Ala Thr Ala Leu Phe Thr
 260 265 270
 Asp Glu Leu Pro Gly Pro Ala Leu Gln Asn His Leu Lys Ser Ser Lys
 275 280 285
 Val Glu Val Val Glu Val Asn Ser Gly Glu Glu Gln Gln Ala Gly
 290 295 300

<210> 10041

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 10041

Ser Val Arg Tyr His Leu His Ser Gly Asp Arg Lys Arg Asp Asp Thr
 1 5 10 15
 Glu Leu Leu Cys Glu Ala Val Met Leu Lys Thr Val His Gln Lys Ala
 20 25 30
 Asn His His Thr Arg Pro Leu Arg Ala Trp Leu Lys Leu Leu Trp His
 35 40 45
 Arg Ile Asp Glu Asp Asn Met Thr Thr Leu Ala Gly Asn Leu Ala Tyr
 50 55 60
 Val Ser Leu Leu Ser Leu Val Pro Leu Val Ala Val Ile Phe Ala Leu
 65 70 75 80
 Phe Ser Ala Phe Pro Met Phe Ala Asp Val Ser Met Gln Leu Arg His
 85 90 95
 Phe Val Phe Ala Asn Phe Ile Pro Ala Thr Gly Asp Val Ile Gln Asn
 100 105 110
 Tyr Ile Glu Gln Phe Val Ala Asn Ser Ser Lys Met Thr Ala Val Gly
 115 120 125
 Ala Cys Gly Leu Ile Val Thr Ala Leu Leu Leu Met Tyr Ser Ile Asp
 130 135 140
 Ser Ala Leu Asn Thr Ile Trp Arg Ser Lys Lys Val Arg Pro Lys Val
 145 150 155 160
 Tyr Ser Phe Ala Val Tyr Trp Met Ile Leu Thr Leu Gly Pro Leu Leu

165 170 175
 Ala Gly Ala Ser Leu Ala Ile Ser Ser Tyr Leu Leu Ser Leu Arg Trp
 180 185 190
 Ala Thr Asp Leu Asn Ser Val Ile Asp Asn Val Leu Arg Ile Phe Pro
 195 200 205
 Leu Ile Leu Ser Trp Leu Ser Phe Trp Leu Leu Tyr Ser Val Val Pro
 210 215 220
 Thr Thr Arg Val Pro Asn Arg Asp Ala Val Val Gly Ala Leu Val Ala
 225 230 235 240
 Ala Leu Leu Phe Glu Leu Gly Lys Lys Gly Phe Ala Leu Tyr Ile Thr
 245 250 255
 Met Phe Pro Ser Tyr Gln Leu Ile Tyr Gly Val Leu Ala Val Ile Pro
 260 265 270
 Ile Leu Phe Val Trp Val Tyr Trp Thr Trp Cys Ile Val Leu Leu Gly
 275 280 285
 Ala Glu Ile Thr Val Thr Leu Gly Val Tyr Arg Glu Leu Lys Lys Ala
 290 295 300
 Ala Glu Ala Glu Lys Gln Gln Glu Ala Asp Gln Pro
 305 310 315

<210> 10042

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 10042

Ser Ile Leu Cys Val Arg Pro Ala Val Cys Val Ala Ile Ala Gly Ser
 1 5 10 15
 Leu Pro Trp Leu Phe Arg Asn Thr Val Val Ser Lys Gln Asn Arg Val
 20 25 30
 Ala His Ala Ser Pro Leu Pro Ala Gly Ile Val Glu Leu Ser Val His
 35 40 45
 Arg Pro Pro His Ile Ser His Ala Thr Pro Asp Phe Leu Ala Glu Glu
 50 55 60
 Val Pro Val Ala Leu Ile Tyr Asn Gly Ile Ser His Val Val Met Met
 65 70 75 80
 Ala Ser Pro Lys Asp Leu Glu Leu Phe Ala Ile Gly Phe Ser Leu Ser
 85 90 95
 Glu Gly Ile Ile Ala His Pro Gln Glu Ile Tyr Gly Met Asp Val Val
 100 105 110
 His Ala Cys Asn Gly Leu Glu Val Gln Ile Glu Leu Ser Ser Arg Arg
 115 120 125
 Phe Met Gly Leu Lys Glu Arg Arg Arg Ala Leu Ala Gly Arg Thr Gly
 130 135 140
 Cys Gly Val Cys Gly Val Glu Gln Leu Asn Asp Ile Gly Lys Pro Ile
 145 150 155 160
 Ile Pro Leu Pro Phe Thr Gln Thr Phe Asn Leu Ala His Leu Asp Arg
 165 170 175
 Ala Leu Glu His Leu Asn Asp Val Gln Pro Ile Gly Gln Leu Ser Gly
 180 185 190
 Cys Thr His Ala Ala Ala Trp Ile Leu Pro Ser Gly Asn Ile Ala Gly
 195 200 205
 Gly His Glu Asp Val Gly Arg His Val Ala Leu Asp Lys Leu Leu Gly
 210 215 220
 Arg Arg Ala Arg Glu Ser Asn Val Trp Gln Gln Gly Ala Ala Leu Val
 225 230 235 240
 Ser Ser Arg Ala Ser Tyr Glu Met Val Gln Lys Ser Ala Met Cys Gly
 245 250 255
 Val Glu Ile Leu Phe Ala Val Ser Ala Ala Thr Thr Leu Ala Val Glu
 260 265 270
 Val Ala Glu Arg Cys Asn Leu Thr Leu Val Gly Phe Cys Lys Pro Gly

275	280	285
Arg Ala Thr Ile Tyr Thr His	Pro Gln Arg Leu Ile Val Asp Gln	
290	295	300

<210> 10043
 <211> 93
 <212> PRT
 <213> Enterobacter cloacae

<400> 10043
 Gly Leu Ile Phe Ile Ser Ser Arg His Gly Ala Leu Ser Lys Gln Leu
 1 5 10 15
 Asn Glu Arg Val Tyr Leu Met Lys Ser Ile Lys Thr Phe Val Ala Val
 20 25 30
 Ile Ala Leu Ala Thr Ser Phe Gly Ser Phe Ala Ala Gln Thr Val Thr
 35 40 45
 Ala Ser Ala Ser Thr Leu Asp Gly Ala Glu Ala Lys Ile Ala Ala Gln
 50 55 60
 Ala Gln Glu Ala Gly Ala Ser Ser Tyr Lys Ile Thr Gln Ala Phe Thr
 65 70 75 80
 Gly Asn Arg Val His Met Thr Ala Glu Leu Asn Lys
 85 90

<210> 10044
 <211> 214
 <212> PRT
 <213> Enterobacter cloacae

<400> 10044
 Pro Tyr Arg Thr Tyr Phe His Tyr Asn Glu Arg Ile Arg Asn Val Leu
 1 5 10 15
 Gln Asp Glu Arg Phe Val Arg Tyr Arg Glu Lys Glu Ala Val Ile Met
 20 25 30
 Thr Gln Pro Ile Ser Val Ile Ala Lys Ser Leu Val Arg Glu Arg Leu
 35 40 45
 Arg Thr Gly Leu Ser Leu Ala Glu Ile Ala Arg Arg Ala Gly Ile Ala
 50 55 60
 Lys Ser Thr Leu Ser Gln Leu Glu Ser Gly Asn Gly Asn Pro Ser Leu
 65 70 75 80
 Glu Thr Leu Trp Ser Leu Cys Val Ala Leu Asp Ile Pro Phe Ala Arg
 85 90 95
 Leu Leu Glu Pro Gln Gln Pro Val Thr Gln Val Ile Arg Arg Gly Glu
 100 105 110
 Gly Thr Lys Val Val Ala Gly Gln Ala Asn Tyr Glu Ala Ile Leu Leu
 115 120 125
 Ala Ala Cys Pro Pro Gly Ala Arg Arg Asp Ile Tyr Leu Leu Leu Thr
 130 135 140
 Gln Pro Gly Ala Asp Arg Ile Ser Gln Pro His Pro Pro Gly Ser Val
 145 150 155 160
 Glu His Ile Ile Val Thr Gln Gly Arg Ala Met Val Gly Leu Ile Asp
 165 170 175
 Ala Ala Glu Glu Leu Gly Pro Gly Asp Tyr Ile Cys Tyr Pro Ala Asp
 180 185 190
 Gln Pro His Ile Phe Lys Ala Leu Glu Pro Asp Thr His Ala Leu Leu
 195 200 205
 Val Ala Glu Gln Asn
 210

<210> 10045
 <211> 288
 <212> PRT

<213> Enterobacter cloacae

<400> 10045

Glu Leu Phe Ser Leu Val Gly Ala Val Met Thr Val Leu His Ser Val
 1 5 10 15
 Asp Phe Phe Pro Thr Gly Ala Ser Pro Val Ala Ile Glu Pro Arg Leu
 20 25 30
 Pro Gln Ala Ala Phe Pro Glu His His Asp Phe His Glu Ile Val
 35 40 45
 Ile Val Glu His Gly Thr Gly Ile His Val Phe Asn Gly Gln Pro Tyr
 50 55 60
 Thr Ile Ser Gly Gly Thr Val Cys Phe Val Arg Asp His Asp Arg His
 65 70 75 80
 Leu Tyr Glu His Thr Asp Asn Leu Cys Leu Thr Asn Val Leu Tyr Arg
 85 90 95
 Ser Pro Asp Ala Phe Gln Phe Leu Ser Gly Leu Asn Gln Leu Leu Pro
 100 105 110
 Gln Glu Lys Asp Gly His Tyr Pro Ser His Trp Arg Val Asn Gln Ser
 115 120 125
 Thr Leu Gln Gln Val Arg Gln Leu Val Ser Gln Met Glu Gln Ser Glu
 130 135 140
 Asp Gly Gln Glu Thr His Ala Ile Ala Thr Arg Glu Leu Leu Phe Met
 145 150 155 160
 Gln Leu Leu Val Leu Leu Arg Arg Ser Ser Leu Val Glu Gly Leu Glu
 165 170 175
 Asn Asn Asp Ala Arg Leu Asn Gln Leu Met Ala Trp Leu Glu Asp His
 180 185 190
 Phe Ala Glu Asp Val Cys Trp Glu Thr Leu Ala Asp Asp Phe Ser Leu
 195 200 205
 Ser Leu Arg Thr Leu His Arg Gln Leu Lys Gln His Thr Gly Leu Thr
 210 215 220
 Pro Gln Arg Tyr Leu Asn Arg Leu Arg Leu Ile Lys Ala Arg His Leu
 225 230 235 240
 Leu Arg His Thr Asp Glu Ser Val Thr Asp Ile Ala Tyr Arg Cys Gly
 245 250 255
 Phe Gly Asp Ser Asn His Phe Ser Thr Leu Phe Arg Arg Glu Phe Ser
 260 265 270
 Trp Ser Pro Arg Asp Ile Arg Gln Gly Lys Asp Ala Leu Leu Gln
 275 280 285

<210> 10046

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 10046

Lys Ile Leu Gln Glu Thr Gly Met Ser Leu Trp Leu Thr His Pro Leu
 1 5 10 15
 Leu Leu Pro Ser Leu Ile Val Gly Val Thr Ile Val Leu Trp Ala Thr
 20 25 30
 Ser Leu Leu Pro Glu Phe Ile Thr Ala Leu Leu Phe Phe Thr Ala Ala
 35 40 45
 Met Ala Ala Arg Ile Ala Pro Pro Glu Val Ile Phe Gly Gly Phe Ala
 50 55 60
 Ser Ser Ala Phe Trp Leu Val Phe Ser Gly Phe Val Leu Gly Val Ala
 65 70 75 80
 Ile Arg Lys Thr Gly Leu Ala Asp Arg Ala Ala Arg Ala Leu Ser Ala
 85 90 95
 Lys Leu Thr Asp Ser Trp Val Leu Met Val Ala Ser Val Val Leu Leu
 100 105 110
 Ser Tyr Ala Leu Ala Phe Val Met Pro Ser Asn Met Gly Arg Ile Ala

115 120 125
 Leu Leu Met Pro Ile Val Ala Ala Met Ala Lys Arg Ala Gly Ile Pro
 130 135 140
 Asp Gly Ser Arg Ala Trp Phe Gly Leu Ala Leu Ala Val Gly Phe Gly
 145 150 155 160
 Thr Phe Gln Leu Ser Ala Thr Ile Leu Pro Ala Asn Val Pro Asn Leu
 165 170 175
 Val Met Ser Gly Ala Ala Glu Gly Ser Tyr Gly Ile His Leu Asn Tyr
 180 185 190
 Val Pro Tyr Leu Leu Leu His Thr Pro Val Leu Gly Ile Leu Lys Gly
 195 200 205
 Leu Ile Leu Ile Gly Leu Ile Cys Trp Leu Phe Pro Gly Asn Pro Lys
 210 215 220
 Pro Ala Lys Asp Leu Ala Pro Ser Glu Pro Met Gly Arg Asp Glu Lys
 225 230 235 240
 Arg Leu Ala Trp Leu Leu Ala Val Val Leu Thr Met Trp Val Thr Glu
 245 250 255
 Ser Trp His Gly Val Gly Pro Ala Trp Thr Gly Leu Ala Ala Ser Val
 260 265 270
 Val Val Met Leu Pro Arg Ile Gly Phe Ile Thr Gly Glu Phe Ser
 275 280 285
 Ala Gly Val Asn Met Arg Thr Cys Ile Tyr Val Ala Gly Ile Leu Gly
 290 295 300
 Leu Ala Ile Thr Val Thr Gln Thr Gly Ile Gly Ala Ala Val Gly Glu
 305 310 315 320
 Thr Leu Leu His Ile Met Pro Leu Asp Ala Asp Arg Pro Phe Thr Ser
 325 330 335
 Phe Leu Ala Leu Thr Gly Ile Thr Thr Ala Leu Asn Phe Ile Met Thr
 340 345 350
 Ala Asn Gly Val Pro Ala Leu Tyr Thr Thr Leu Ala Gln Ser Phe Ser
 355 360 365
 Asp Ala Thr Gly Phe Pro Leu Leu Ser Val Ile Met Ile Gln Val Leu
 370 375 380
 Gly Tyr Ser Thr Pro Leu Leu Pro Tyr Gln Ala Ser Pro Ile Val Val
 385 390 395 400
 Ala Met Gly Leu Gly Lys Val Pro Ala Lys Ala Gly Met Leu Leu Cys
 405 410 415
 Leu Ala Leu Ala Ile Ala Thr Tyr Leu Val Leu Leu Pro Leu Asp Tyr
 420 425 430
 Leu Trp Phe Ser Val Leu Gly Arg Leu
 435 440

<210> 10047

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 10047

Leu Lys Arg Tyr Leu Val Gly Leu Ser Lys Gly His Asn Ser Arg Val
 1 5 10 15
 Lys Cys Gly Leu Asn Asn Asn Lys Glu Pro Tyr Met Thr Ile Gln Gln
 20 25 30
 Trp Leu Phe Ser Phe Lys Gly Arg Ile Gly Arg Arg Asp Phe Trp Ile
 35 40 45
 Trp Ile Ala Thr Trp Val Val Ala Met Leu Leu Leu Phe Phe Val Ala
 50 55 60
 Tyr Asn Ala Trp Leu Ser Thr Gln Thr Ala Ala Phe Ala Leu Val Cys
 65 70 75 80
 Leu Leu Trp Pro Thr Ala Ala Val Val Val Lys Arg Leu His Asn Arg
 85 90 95
 Gly Arg Ser Gly Ala Trp Ala Phe Leu Ile Ile Leu Ala Trp Met Leu

100 105 110
 Val Ala Gly Asn Trp Ser Leu Leu Pro Ser Ile Leu Pro Trp Val Val
 115 120 125
 Gly Arg Leu Leu Pro Thr Val Ile Phe Val Met Met Val Val Glu Leu
 130 135 140
 Gly Ala Phe Ile Gly Thr Gln Ser Glu Asn Lys Tyr Gly Lys Asp Thr
 145 150 155 160
 Leu Glu Val Lys Tyr Arg
 165

<210> 10048

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 10048

Ser Val Ala Leu Gln Phe Arg Arg Gly Arg Ile Met Ser Leu Glu Val
 1 5 10 15
 Phe Glu Lys Leu Glu Ser Lys Val Gln Gln Ala Ile Asp Thr Ile Thr
 20 25 30
 Leu Leu Gln Met Glu Ile Glu Glu Leu Lys Glu Lys Asn Asn Ser Leu
 35 40 45
 Ser Gln Glu Val Gln Asn Ala Gln His Ser Arg Glu Glu Met Glu Arg
 50 55 60
 Glu Asn Asn Gln Leu Arg Glu Gln His Asn Gly Trp Gln Glu Arg Leu
 65 70 75 80
 Gln Ala Leu Leu Gly Arg Met Glu Lys Val
 85 90

<210> 10049

<211> 1073

<212> PRT

<213> Enterobacter cloacae

<400> 10049

Cys Lys Asn Arg Cys His Asp Arg Gln Arg Arg Pro Gln Leu Ile Pro
 1 5 10 15
 Tyr Leu Arg Ile Gln Ser Met Asp Phe Ser Arg Phe Phe Ile Asp Arg
 20 25 30
 Pro Ile Phe Ala Ala Val Leu Ser Ile Leu Ile Phe Ile Thr Gly Leu
 35 40 45
 Ile Ala Ile Pro Leu Leu Pro Val Ser Glu Tyr Pro Asp Val Val Pro
 50 55 60
 Pro Ser Val Gln Val Arg Ala Glu Tyr Pro Gly Ala Asn Pro Lys Val
 65 70 75 80
 Ile Ala Glu Thr Val Ala Thr Pro Leu Glu Glu Ala Ile Asn Gly Val
 85 90 95
 Glu Asn Met Met Tyr Met Lys Ser Val Ala Gly Ser Asp Gly Val Leu
 100 105 110
 Val Thr Thr Val Thr Phe Arg Pro Gly Thr Asp Pro Asp Gln Ala Gln
 115 120 125
 Val Gln Val Gln Asn Arg Val Ala Gln Ala Glu Ala Arg Leu Pro Glu
 130 135 140
 Asp Val Arg Arg Leu Gly Ile Thr Thr Gln Lys Gln Ser Pro Thr Leu
 145 150 155 160
 Thr Leu Val Val His Leu Phe Ser Pro Gly Gly Lys Tyr Asp Ser Leu
 165 170 175
 Tyr Met Arg Asn Tyr Ala Thr Leu Lys Val Lys Asp Glu Leu Ala Arg
 180 185 190
 Leu Pro Gly Val Gly Gln Ile Gln Ile Phe Gly Ser Gly Glu Tyr Ala
 195 200 205

Met Arg Val Trp Leu Asp Pro Asn Lys Val Ala Ala Arg Gly Leu Thr
 210 215 220
 Ala Ser Asp Val Val Thr Ala Met Gln Glu Gln Asn Val Gln Val Ser
 225 230 235 240
 Ala Gly Gln Leu Gly Ala Glu Pro Leu Pro Lys Glu Ser Asp Phe Leu
 245 250 255
 Ile Ser Ile Asn Ala Gln Gly Arg Leu His Thr Glu Glu Glu Phe Gly
 260 265 270
 Asn Ile Val Leu Lys Thr Thr Gln Asp Gly Thr Val Val Arg Leu Arg
 275 280 285
 Asp Val Ala Arg Ile Glu Met Gly Ser Gly Ser Tyr Ala Leu Arg Ser
 290 295 300
 Gln Leu Asn Asn Lys Asp Ala Val Gly Ile Gly Ile Phe Gln Ser Pro
 305 310 315 320
 Gly Ala Asn Ala Ile Asp Leu Ser Asn Ala Val Arg Ala Lys Met Asp
 325 330 335
 Glu Leu Ser Thr Arg Phe Pro Ala Asp Met Lys Trp Ala Ala Pro Tyr
 340 345 350
 Asp Pro Thr Val Phe Val Arg Asp Ser Ile Arg Ala Val Val Gln Thr
 355 360 365
 Leu Leu Glu Ala Val Val Leu Val Val Leu Val Val Ile Leu Phe Leu
 370 375 380
 Gln Thr Trp Arg Ala Ser Ile Ile Pro Leu Ile Ala Val Pro Val Ser
 385 390 395 400
 Val Val Gly Thr Phe Ser Ile Leu Tyr Leu Leu Gly Phe Ser Leu Asn
 405 410 415
 Thr Leu Ser Leu Phe Gly Leu Val Leu Ala Ile Gly Ile Val Val Asp
 420 425 430
 Asp Ala Ile Val Val Val Glu Asn Val Glu Arg Asn Ile Glu Glu Gly
 435 440 445
 Leu Ala Pro Leu Ala Ala Ala His Gln Ala Met Arg Glu Val Ser Gly
 450 455 460
 Pro Ile Ile Ala Ile Ala Leu Val Leu Cys Ala Val Phe Val Pro Met
 465 470 475 480
 Ala Phe Leu Ser Gly Val Thr Gly Gln Phe Tyr Lys Gln Phe Ala Val
 485 490 495
 Thr Ile Ala Ile Ser Thr Val Ile Ser Ala Ile Asn Ser Leu Thr Leu
 500 505 510
 Ser Pro Ala Leu Ala Ala Leu Leu Leu Lys Pro His Gly Ala Pro Lys
 515 520 525
 Asp Phe Pro Thr Arg Leu Ile Asp Arg Leu Phe Gly Trp Ile Phe Arg
 530 535 540
 Pro Phe Asn Arg Phe Phe Leu Arg Ser Ser Asn Gly Tyr Gln Gly Leu
 545 550 555 560
 Val Gly Lys Thr Leu Gly Arg Arg Gly Ala Val Phe Val Val Tyr Leu
 565 570 575
 Leu Leu Leu Cys Ala Ala Gly Val Met Phe Lys Ala Val Pro Gly Gly
 580 585 590
 Phe Ile Pro Thr Gln Asp Lys Leu Tyr Leu Ile Gly Gly Val Lys Met
 595 600 605
 Pro Glu Gly Ser Ser Leu Ala Arg Thr Asp Ala Val Ile Arg Lys Met
 610 615 620
 Ser Glu Ile Gly Met Asn Thr Glu Gly Val Asp Tyr Ala Val Ala Phe
 625 630 635 640
 Pro Gly Leu Asn Ala Leu Gln Phe Thr Asn Thr Pro Asn Thr Gly Thr
 645 650 655
 Val Phe Phe Gly Leu Lys Pro Phe Asp Gln Arg Lys His Ser Ala Ala
 660 665 670
 Glu Ile Asn Ala Glu Ile Asn Ala Lys Ile Ala Gln Ile Gln Gln Gly
 675 680 685
 Phe Gly Phe Ser Ile Leu Pro Pro Pro Ile Leu Gly Leu Gly Gln Gly

690	695	700
Ser Gly Tyr Ser Leu Tyr	Ile Gln Asp Arg Ala Gly Leu Gly Tyr Gly	
705	710	715
Ala Leu Gln Asn Ala Val	Asn Thr Met Ser Gly Ala Ile Met Gln Thr	720
	725	730
Pro Gly Met His Phe	Pro Ile Ser Thr Tyr Gln Ala Asn Val Pro Gln	735
	740	745
Leu Asp Val Gln Val Asp	Arg Asp Lys Ala Lys Ala Gln Gly Val Ser	750
	755	760
Leu Thr Asp Leu Phe Gly	Thr Leu Gln Thr Tyr Leu Gly Ser Ser Tyr	765
	770	775
Val Asn Asp Phe Asn Gln	Phe Gly Arg Thr Trp Arg Val Met Ala Gln	780
	785	790
Ala Asp Gly Gln Phe Arg	Asp Ser Val Glu Asp Ile Ala Asn Leu Arg	800
	805	810
Thr Arg Asn Ser Gln Gly	Glu Met Val Pro Ile Gly Ser Met Val Asn	815
	820	825
Ile Thr Thr Tyr Tyr Gly	Pro Asp Pro Val Ile Arg Tyr Asn Gly Tyr	830
	835	840
Pro Ala Ala Asp Leu Ile	Gly Asp Ala Asp Pro Arg Val Leu Ser Ser	845
	850	855
Ala Gln Ala Met Thr Gln	Leu Asp Ala Met Ser Lys Gln Ile Leu Pro	860
	865	870
Asn Gly Met Asn Ile Glu	Trp Thr Asp Leu Ser Phe Gln Gln Ala Thr	875
	885	890
Gln Gly Asn Thr Ala Leu	Ile Val Phe Pro Val Ala Val Leu Leu Ala	895
	900	905
Phe Leu Val Leu Ala Ala	Leu Tyr Glu Ser Trp Thr Leu Pro Leu Ala	910
	915	920
Val Ile Leu Ile Val Pro	Met Thr Met Leu Ser Ala Leu Phe Gly Val	925
	930	935
Trp Leu Thr Gly Gly Asp	Asn Asn Val Phe Val Gln Val Gly Leu Val	940
	945	950
Val Leu Met Gly Leu Ala	Cys Lys Asn Ala Ile Leu Ile Val Glu Phe	955
	965	970
Ala Arg Glu Leu Glu Ile	Gln Gly Lys Gly Ile Met Glu Ala Ala Leu	975
	980	985
Glu Ala Cys Arg Leu Arg	Leu Arg Pro Ile Val Met Thr Ser Ile Ala	990
	995	1000
Phe Ile Ala Gly Thr Ile	Pro Leu Ile Leu Gly His Gly Ala Gly Ala	1005
	1010	1015
Glu Val Arg Gly Val Thr	Gly Ile Thr Val Phe Ser Gly Met Leu Gly	1020
	1025	1030
Val Thr Leu Phe Gly Leu	Phe Leu Thr Pro Val Phe Tyr Val Thr Leu	1035
	1040	1045
Arg Lys Phe Val Thr Arg	Gly Lys Ala Glu Arg Glu Val Leu Pro Ala	1050
	1055	1060
	1065	1070

<210> 10050

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 10050

Ile Gln Arg Ala Ser Leu	Met Arg Asn Ile Thr Leu Arg His Ser Phe
1	5 10 15
Pro Arg Ser Arg Ile Gly	Arg Ser Met Lys Ser Ile Leu Pro Gly Ala
	20 25 30
Val Leu Ala Leu Leu Ala	Thr Thr Ala Leu Ala Ala Asp Gln Arg Gln

35 40 45
 Gly Asn Val Leu Thr Leu Gly Gly Val Asp Val Ala Pro Arg Tyr
 50 55 60
 Ser Gly Ser Asp Lys Ser Arg Val Ser Ala Ala Gln Val Val Asp Tyr
 65 70 75 80
 Ala Met Ala Asn Gly Phe Phe Val Ser Thr Thr Arg Gly Ile Gly Tyr
 85 90 95
 Gly Asn Ser Phe Gly Asn Leu Asp Tyr Asn Ala Ala Leu Ser Tyr Arg
 100 105 110
 Ala Gly Arg Lys Asp Arg Asp Val Ser Ser Asp Ser Ile Ala Ser Gly
 115 120 125
 Ser Asp Asp Leu Arg Gly Met Gly Asp Ile Lys Gly Ser Ala Ile Val
 130 135 140
 Val Pro Gly Leu Gly Tyr Arg Val Thr Asp Trp Leu Thr Val Gln Leu
 145 150 155 160
 Gln Ala Glu Val Pro Val Ser Glu Arg Asp Asn Gly Glu Ala Val His
 165 170 175
 Phe Gly Ile Ala Ser Pro Phe Tyr Thr Ser Pro Lys Asn Ala Leu Thr
 180 185 190
 Leu Ala Leu Thr Gly Ser Trp Gly Ser Ser Lys Tyr Val Gln Thr Tyr
 195 200 205
 Tyr Gly Val Asn Ala Ala Gln Ser Ala Ala Ser Gly Phe Ala Arg His
 210 215 220
 Asp Ala Gly Ser Gly Leu Tyr Ala Tyr Ser Leu Asn Leu Asp Trp Thr
 225 230 235 240
 His Lys Leu Thr Ser Arg Trp Ser Leu Leu Ala Ala Ala Gly Val Thr
 245 250 255
 Gln Leu Thr Gly Glu Ala Gly Asp Ser Pro Ile Val Gln Arg Lys Thr
 260 265 270
 Ser Pro Val Gly Ser Leu Lys Val Thr Tyr Ser Phe
 275 280 285

<210> 10051

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 10051

Glu Lys Leu Cys Met Thr Thr Leu Asn Leu Gly His Leu Ala Thr Phe
 1 5 10 15
 Arg Leu Val Val Gln Arg Gly Ser Phe Ser Ala Ala Ala Asp Val Met
 20 25 30
 Gly Ile Ser Gln Pro Ala Val Ser Leu Gln Ile Arg Gln Leu Glu Gln
 35 40 45
 Phe Leu Gln Thr Arg Leu Ile Glu Arg Thr Gly Arg Gly Ile Lys Ala
 50 55 60
 Thr Ala Ala Gly Glu Ala Leu Arg Val His Gly Glu Arg Leu Glu Leu
 65 70 75 80
 Ala Val Glu Glu Thr Ile Arg Ser Val Ser Ala Phe Asn Gln Glu Val
 85 90 95
 Ser Gly Thr Ile Thr Leu Gly Thr Gly Ala Thr Ala Cys Ile His Leu
 100 105 110
 Leu Pro Ala Leu Leu Gln Gln Leu Arg Glu Glu Tyr Pro Leu Leu Arg
 115 120 125
 Ile Gly Val Thr Thr Gly Asn Thr Pro Asp Ile Val Arg Ala Ile Glu
 130 135 140
 Glu Asn Arg Leu Asp Met Gly Leu Val Thr Leu Pro Ala Ser Gly Arg
 145 150 155 160
 Thr Leu Ala Ile Met His Ala Met Glu Glu Glu Phe Val Trp Ile Gly
 165 170 175
 Ala Gln Val Gln Pro Glu Glu Gly Glu Gln Phe Thr Pro Asp Ser Leu

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<210> 10052
<211> 436
<212> PRT
<213> Enterobacter cloacae
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400> 10052															
His	Ser	Glu	Glu	Asn	Thr	Met	Thr	Arg	Arg	Ala	Ile	Gly	Val	Ser	Glu
1				5				10						15	
Arg	Pro	Pro	Leu	Gln	Thr	Ile	Pro	Leu	Ser	Leu	Gln	His	Leu	Phe	
			20				25					30			
Ala	Met	Phe	Gly	Ala	Thr	Val	Leu	Val	Pro	Ile	Leu	Phe	His	Ile	Asn
		35					40					45			
Pro	Ala	Thr	Val	Leu	Leu	Phe	Asn	Gly	Ile	Gly	Thr	Leu	Leu	Tyr	Leu
	50					55					60				
Phe	Ile	Cys	Lys	Gly	Lys	Ile	Pro	Ala	Tyr	Leu	Gly	Ser	Ser	Phe	Ala
65				70						75				80	
Phe	Ile	Ser	Pro	Val	Leu	Leu	Leu	Leu	Pro	Leu	Gly	Tyr	Glu	Val	Ala
				85					90				95		
Leu	Gly	Gly	Phe	Ile	Met	Cys	Gly	Val	Leu	Phe	Cys	Leu	Val	Ser	Phe
			100					105					110		
Ile	Val	Lys	Lys	Ala	Gly	Thr	Gly	Trp	Leu	Asp	Val	Met	Phe	Pro	Pro
		115					120					125			
Ala	Ala	Met	Gly	Ala	Ile	Val	Ala	Val	Ile	Gly	Leu	Glu	Leu	Ala	Gly
	130					135					140				
Val	Ala	Ala	Asn	Met	Ala	Gly	Leu	Leu	Pro	Ala	Asp	Gly	Gln	Ser	Pro
145				150					155						160
Asp	Ser	Lys	Thr	Ile	Ile	Ser	Leu	Val	Thr	Leu	Gly	Val	Thr	Val	
			165					170					175		
Phe	Gly	Ser	Val	Leu	Phe	Arg	Gly	Phe	Met	Ala	Ile	Ile	Pro	Ile	Leu
			180					185					190		
Ile	Gly	Val	Leu	Ala	Gly	Tyr	Ala	Leu	Ser	Phe	Val	Met	Gly	Val	Val
		195					200					205			
Asp	Thr	Thr	Pro	Ile	Ala	Glu	Ala	His	Trp	Phe	Ala	Leu	Pro	Thr	Xaa
	210				215						220				
Tyr	Thr	Pro	Arg	Phe	Glu	Trp	Phe	Ala	Ile	Phe	Thr	Ile	Leu	Pro	Ala
225				230						235					240
Ala	Leu	Val	Val	Ile	Ala	Glu	His	Val	Gly	His	Leu	Val	Val	Thr	Ala
			245						250					255	
Asn	Ile	Val	Lys	Arg	Asp	Leu	Ile	Arg	Asp	Pro	Gly	Leu	His	Arg	Ser
			260					265					270		
Met	Phe	Ala	Asn	Gly	Phe	Ser	Thr	Ile	Ile	Ser	Gly	Phe	Phe	Gly	Ser

275 280 285
 Thr Pro Asn Thr Thr Tyr Gly Glu Asn Ile Gly Val Met Ala Ile Thr
 290 295 300
 Arg Val Tyr Ser Thr Trp Val Ile Gly Gly Ala Ala Ile Ile Ala Ile
 305 310 315 320
 Leu Leu Ser Cys Val Gly Lys Leu Ala Ala Ala Ile Gln Ile Ile Pro
 325 330 335
 Val Pro Val Met Gly Gly Val Ser Leu Leu Leu Tyr Gly Val Ile Gly
 340 345 350
 Ala Ser Gly Ile Arg Val Leu Ile Glu Ser Lys Val Asp Tyr Ser Lys
 355 360 365
 Ala Gln Asn Leu Ile Leu Thr Ser Val Ile Leu Ile Ile Gly Val Ser
 370 375 380
 Gly Ala Lys Val His Ile Gly Ala Ala Glu Leu Lys Gly Met Ala Leu
 385 390 395 400
 Ala Thr Ile Val Gly Val Gly Leu Ser Leu Ile Phe Lys Leu Ile Ser
 405 410 415
 Val Ile Arg Pro Glu Glu Val Val Leu Asp Ala Asp Ser Glu Lys
 420 425 430
 Ala Pro His
 435

<210> 10053

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 10053

Thr Pro Phe Arg Phe Tyr Val Arg Ser Leu Val Glu Val Phe Leu Asn
 1 5 10 15
 Gly Pro Ala Gln Leu Ser Leu Pro Leu Tyr Leu Pro Asp Asp Glu Thr
 20 25 30
 Phe Ala Ser Phe Trp Pro Gly Asp Asn Pro Ser Leu Leu Ala Ala Leu
 35 40 45
 Gln Asn Val Leu Arg Gln Glu His Ser Gly Tyr Ile Tyr Ile Trp Ser
 50 55 60
 Arg Glu Gly Ala Gly Arg Ser His Leu Leu His Ala Ala Cys Ala Glu
 65 70 75 80
 Leu Ser Ala Arg Gly Asp Ala Val Gly Tyr Val Pro Leu Asp Lys Arg
 85 90 95
 Thr Trp Phe Val Pro Glu Val Leu Glu Gly Met Glu His Leu Ser Leu
 100 105 110
 Val Cys Ile Asp Asn Ile Glu Cys Val Ala Gly Asp Glu Pro Trp Glu
 115 120 125
 Met Ala Ile Phe Asn Leu Tyr Asn Arg Ile Leu Glu Ser Gly Lys Thr
 130 135 140
 Arg Leu Leu Ile Thr Gly Asp Arg Pro Pro Arg Gln Leu Asn Leu Gly
 145 150 155 160
 Leu Pro Asp Leu Ala Ser Arg Leu Asp Trp Gly Gln Ile Tyr Lys Leu
 165 170 175
 Gln Pro Leu Ser Asp Glu Asp Lys Leu Gln Ala Leu Gln Leu Arg Ala
 180 185 190
 Arg Leu Arg Gly Phe Glu Leu Pro Glu Asp Val Gly Arg Phe Leu Leu
 195 200 205
 Lys Arg Leu Asp Arg Glu Met Arg Thr Leu Phe Asp Thr Leu Asp Gln
 210 215 220
 Leu Asp Arg Ala Ser Ile Thr Ala Gln Arg Lys Leu Thr Ile Pro Phe
 225 230 235 240
 Val Lys Asp Ile Leu Lys Leu
 245

<210> 10054
 <211> 248
 <212> PRT
 <213> Enterobacter cloacae

<400> 10054
 Ile Gln Ile Ile Thr Pro Gly Val Met Lys Met Gln Lys Gln Ala Glu
 1 5 10 15
 Leu Tyr Arg Gly Lys Ala Lys Thr Val Tyr Ser Thr Glu Asn Pro Asp
 20 25 30
 Leu Leu Val Leu Glu Phe Arg Asn Asp Thr Ser Ala Gly Asp Gly Ala
 35 40 45
 Arg Ile Glu Gln Phe Asp Arg Lys Gly Met Val Asn Asn Lys Phe Asn
 50 55 60
 His Phe Ile Met Thr Lys Leu Ala Glu Ala Gly Ile Pro Thr Gln Met
 65 70 75 80
 Glu Ala Leu Leu Ser Asp Thr Glu Cys Leu Val Lys Lys Leu Asp Met
 85 90 95
 Val Pro Val Glu Cys Val Ile Arg Asn Arg Ala Ala Gly Ser Leu Val
 100 105 110
 Lys Arg Leu Gly Ile Glu Glu Gly Ile Glu Leu Asn Pro Pro Leu Phe
 115 120 125
 Asp Leu Phe Leu Lys Asn Asp Ala Met His Asp Pro Met Val Asn Glu
 130 135 140
 Ser Tyr Cys Glu Thr Phe Gly Trp Val Ser Lys Glu Asn Leu Ala Arg
 145 150 155 160
 Met Gln Glu Leu Thr Tyr Lys Ala Asn Asp Val Leu Lys Lys Leu Phe
 165 170 175
 Asp Asp Ala Gly Leu Ile Leu Val Asp Phe Lys Leu Glu Phe Gly Leu
 180 185 190
 Tyr Lys Gly Glu Val Val Leu Gly Asp Glu Phe Ser Pro Asp Gly Ser
 195 200 205
 Arg Leu Trp Asp Lys Glu Thr Leu Asp Lys Met Asp Lys Asp Arg Phe
 210 215 220
 Arg Gln Ser Leu Gly Gly Val Val Glu Ala Tyr Glu Ala Val Ala His
 225 230 235 240
 Arg Leu Gly Val Lys Leu Asp
 245

<210> 10055
 <211> 294
 <212> PRT
 <213> Enterobacter cloacae

<400> 10055
 Phe Glu Val Phe Met Arg Trp Gln Gly Arg Arg Glu Ser Asp Asn Val
 1 5 10 15
 Glu Asp Arg Arg Ser Ser Gly Gly Gly Gly Pro Ser Met Gly Gly Pro
 20 25 30
 Gly Phe Arg Leu Pro Ser Gly Lys Gly Gly Ile Ile Leu Leu Val Val
 35 40 45
 Val Leu Val Ala Gly Tyr Tyr Gly Val Asp Leu Thr Gly Leu Met Thr
 50 55 60
 Gly Glu Thr Gly Gln Gln Gln Gln Tyr Ser Gln Arg Ser Ile Ser Pro
 65 70 75 80
 Asn Glu Asp Glu Ala Ala Lys Phe Thr Ser Val Ile Leu Ala Thr Thr
 85 90 95
 Glu Asp Thr Trp Gly Gln Gln Phe Glu Lys Met Gly Arg Thr Tyr Gln
 100 105 110
 Pro Pro Lys Leu Val Met Tyr Arg Gly Ala Thr Arg Thr Gly Cys Gly
 115 120 125

Thr Gly Gln Ser Val Met Gly Pro Phe Tyr Cys Pro Ala Asp Ser Thr
 130 135 140
 Val Tyr Ile Asp Leu Ser Phe Tyr Asp Asp Met Lys Ser Lys Leu Gly
 145 150 155 160
 Ala Asp Gly Asp Phe Ala Gln Gly Tyr Val Ile Ala His Glu Val Gly
 165 170 175
 His His Val Gln Lys Leu Leu Gly Ile Pro Lys Val Arg Gln Met
 180 185 190
 Gln Gln Asn Ala Ser Gln Ala Glu Met Asn Arg Leu Ser Val Arg Met
 195 200 205
 Glu Leu Gln Ala Asp Cys Phe Ala Gly Val Trp Gly His Ser Met Gln
 210 215 220
 Gln Gln Gly Val Leu Glu Thr Gly Asp Leu Glu Glu Ala Leu Asn Ala
 225 230 235 240
 Ala Gln Ala Ile Gly Asp Asp Arg Leu Gln Gln Ser Gln Gly Arg
 245 250 255
 Val Val Pro Asp Ser Phe Thr His Gly Thr Ser Glu Gln Arg Tyr Ser
 260 265 270
 Trp Phe Lys Arg Gly Phe Asp Ser Gly Asn Pro Ser Gln Cys Asn Thr
 275 280 285
 Phe Gly Lys Ala Met
 290

<210> 10056

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 10056

Lys Pro Thr Phe Cys Asn Gly Asn Phe Phe Asn Asp Phe Phe Ser Lys
 1 5 10 15
 Val Ala Trp Ser Leu Pro Arg Arg Gly Val Lys Ser Cys Leu Ser Ile
 20 25 30
 Lys Glu Ile Ala Met Lys His Asp His Phe Val Val Gln Ser Pro Asp
 35 40 45
 Thr Pro Ala Lys Gln Leu Leu Leu Phe His Gly Val Gly Asp Asn
 50 55 60
 Ala Val Asn Met Gly Gln Ile Gly Ser Trp Phe Ala Pro Val Phe Pro
 65 70 75 80
 His Ala Leu Ile Val Ser Ile Gly Gly Val Glu Pro Cys Gly Pro Asp
 85 90 95
 Gly Arg Gln Trp Phe Ser Val Glu Gly Val Thr Glu Glu Asn Arg Gln
 100 105 110
 Ala Arg Ile Asp Ala Val Met Pro Ala Phe Ile Asp Thr Val Arg Tyr
 115 120 125
 Trp Gln Gln Gln Ser Gly Val Gly Ala Asp Ala Thr Ala Leu Ile Gly
 130 135 140
 Phe Ser Gln Gly Ser Ile Met Ser Leu Glu Ser Val Lys Ala Gln Pro
 145 150 155 160
 Gly Leu Val Ser Arg Val Ile Ala Phe Asn Gly Arg Phe Ala Thr Leu
 165 170 175
 Pro Gln Ser Ala Thr Thr Gln Thr Thr Ile His Leu Ile His Gly Gly
 180 185 190
 Glu Asp Arg Val Ile Glu Leu Ser His Ala Val Ala Ala Gln Thr
 195 200 205
 Leu Met Arg Glu Gly Gly Asp Val Thr Leu Asp Ile Val Asp Asp Leu
 210 215 220
 Gly His Ala Ile Asp Asp Arg Ser Met Gln Phe Ala Leu Asp His Leu
 225 230 235 240
 Arg Tyr Thr Val Pro Lys His Tyr Phe Asp Glu Ala Leu Ser Gly Ala
 245 250 255

Lys Pro Asn Asp Asp Asp Ile Val Glu Phe Met
260 265

<210> 10057

<211> 686

<212> PRT

<213> Enterobacter cloacae

<400> 10057

Thr Leu Arg Arg His Ala Ala Val Gly Lys Tyr Asp Asn Asn Arg Lys
1 5 10 15
Asn Lys Val Ile Glu Pro Lys Thr Gly Val Val Met Asn Arg Phe Ile
20 25 30
Met Ala Asn Ala Gln Gln Cys Ile Gly Cys Arg Ala Cys Glu Val Ala
35 40 45
Cys Val Met Ala His Asn Gly Glu Gln His Ala Leu Ser Glu Arg His
50 55 60
Phe His Pro Arg Ile Thr Val Leu Thr Ser Gly Leu Arg Lys Ser Pro
65 70 75 80
Val Thr Cys His His Cys Glu Asn Ala Pro Cys Ala Gln Ser Cys Pro
85 90 95
Asn Gly Ala Ile Thr Gln His Ser Asp Ser Val Gln Val Asn Gln Gln
100 105 110
Lys Cys Ile Gly Cys Lys Ala Cys Val Val Ala Cys Pro Phe Gly Thr
115 120 125
Met Asp Met Leu Ile Ala Pro Leu Glu Asn Asp Ser Val Lys Ala Ser
130 135 140
Ala His Lys Cys Asp Leu Cys Leu Glu Arg Pro Gln Gly Pro Ala Cys
145 150 155 160
Val Glu Asn Cys Pro Ala Glu Val Leu Thr Leu Ala Thr Pro Ala Val
165 170 175
Leu Asp Lys Leu Val Lys Gln Arg Arg Gln Arg Ser Ala Arg Leu Asp
180 185 190
Ala Leu Pro Trp His Ser Glu Ala Val Gln Ser Val Pro Gln Thr
195 200 205
Lys Arg Gln Gln Met Gln Asn Thr Pro Ala Arg Gly Glu Pro Asp Lys
210 215 220
Leu Ser Pro Asp Ala Arg Ala Gly His Phe Asn Glu Ile Tyr Leu Pro
225 230 235 240
Phe Arg Pro Glu Gln Ala Gln Arg Glu Ala Ser Arg Cys Leu Lys Cys
245 250 255
Gly Asp His Ser Ile Cys Glu Trp Thr Cys Pro Leu His Asn His Ile
260 265 270
Pro Gln Trp Ile Glu Arg Ile Arg Ala Gly Asp Ile Ile Gly Ala Ala
275 280 285
Glu Leu Ser His Gln Thr Asn Cys Leu Pro Glu Ile Thr Gly Arg Val
290 295 300
Cys Pro Gln Asp Arg Leu Cys Glu Gly Ala Cys Thr Leu Arg Asp Ala
305 310 315 320
Ser Gly Ala Val Thr Ile Gly Asn Ile Glu Arg Tyr Ile Ser Asp Arg
325 330 335
Ala Leu Ala Met Gly Trp Thr Pro Asp Val Ser His Val Lys Pro Val
340 345 350
Gly Lys Arg Val Ala Ile Ile Gly Ala Gly Pro Ala Gly Leu Ala Cys
355 360 365
Ala Asp Val Leu Val Arg Ser Gly Val Gly Val Thr Val Tyr Asp Arg
370 375 380
His Pro Glu Ile Gly Gly Leu Leu Thr Phe Gly Ile Pro Ala Phe Lys
385 390 395 400
Leu Asp Lys Ser Leu Leu Ala Arg Arg Glu Ile Phe Ser Ala Met
405 410 415

Gly Ile Arg Phe Glu Leu Asn Cys Glu Val Gly Lys Asp Val Ser Met
 420 425 430
 Ala Gln Leu Gln Asn Asp Tyr Asp Ala Leu Phe Ile Gly Val Gly Thr
 435 440 445
 Tyr Arg Ser Met Lys Ala Gly Ile Pro His Glu Asp Ala Pro Gly Val
 450 455 460
 Tyr Asp Ala Leu Pro Phe Leu Val Ala Asn Thr Arg Asn Val Met Gly
 465 470 475 480
 Leu Asp Pro Ala Ala Asp Glu Pro Phe Ile Asp Thr Gln Gly Leu Asn
 485 490 495
 Val Val Val Leu Gly Gly Gly Asp Thr Ala Met Asp Cys Val Arg Thr
 500 505 510
 Ala Leu Arg His Gly Ala Ala Lys Val Thr Cys Ala Tyr Arg Arg Asp
 515 520 525
 Glu Ala Asn Met Pro Gly Ser Lys Lys Glu Val Lys Asn Ala Lys Glu
 530 535 540
 Glu Gly Ala Ala Phe Glu Phe Asn Val Gln Pro Val Glu Leu Thr Leu
 545 550 555 560
 Asp Thr Asp Gly Lys Val Asn Gly Ile Arg Met Leu Arg Thr Arg Leu
 565 570 575
 Gly Glu Pro Asp Ala Gln Gly Arg Arg Arg Pro Val Pro Val Ala Gly
 580 585 590
 Ser Glu Phe Val Met Pro Ala Asp Ala Val Ile Met Ala Phe Gly Phe
 595 600 605
 Asn Pro His Ala Met Pro Trp Leu Gln Ala Gln Gly Val Asp Thr Asp
 610 615 620
 Asp Trp Gly Arg Ile Lys Ala Ser Val Glu Ser Arg Tyr Arg Tyr Gln
 625 630 635 640
 Thr Ser Asn Pro Gln Ile Phe Ala Gly Gly Asp Ala Val Arg Gly Ala
 645 650 655
 Asp Leu Val Val Thr Ala Met Ala Glu Gly Arg His Ala Ala Gln Gly
 660 665 670
 Ile Met Asp Trp Leu Gly Val Pro Pro Arg Asn Met His
 675 680 685

<210> 10058

<211> 768

<212> PRT

<213> Enterobacter cloacae

<400> 10058

Pro Lys Arg Glu Arg Asn Asn Lys Met Asp Asp Gln Leu Lys Gln Ser
 1 5 10 15
 Ala Leu Asp Phe His Glu Phe Pro Val Pro Gly Lys Ile Gln Val Ser
 20 25 30
 Pro Thr Lys Pro Leu Ala Thr Gln Arg Asp Leu Ala Leu Ala Tyr Ser
 35 40 45
 Pro Gly Val Ala Ala Pro Cys Leu Glu Ile Glu Lys Asp Pro Leu Ala
 50 55 60
 Ala Tyr Lys Tyr Thr Ala Arg Gly Asn Leu Val Ala Val Ile Ser Asn
 65 70 75 80
 Gly Thr Ala Val Leu Gly Leu Gly Asn Ile Gly Ala Leu Ala Gly Lys
 85 90 95
 Pro Val Met Glu Gly Lys Gly Val Leu Phe Lys Lys Phe Ala Gly Ile
 100 105 110
 Asp Val Phe Asp Ile Glu Val Asp Glu Leu Asp Pro Asp Lys Phe Ile
 115 120 125
 Asn Val Val Ala Ala Leu Glu Pro Thr Phe Gly Gly Ile Asn Leu Glu
 130 135 140
 Asp Ile Lys Ala Pro Glu Cys Phe Tyr Ile Glu Gln Lys Leu Arg Glu
 145 150 155 160

Arg Met Asn Ile Pro Val Phe His Asp Asp Gln His Gly Thr Ala Ile
 165 170 175
 Ile Ser Thr Ala Ala Ile Leu Asn Gly Leu Arg Val Val Glu Lys Asn
 180 185 190
 Leu Ser Asp Val Arg Met Val Val Ser Gly Ala Gly Ala Ala Ala Ile
 195 200 205
 Ala Cys Met Asn Leu Leu Val Ala Leu Gly Met Gln Lys His Asn Ile
 210 215 220
 Val Val Cys Asp Ser Lys Gly Val Ile Tyr Lys Asp Arg Glu Pro Asn
 225 230 235 240
 Met Ala Glu Thr Lys Ala Ala Tyr Ala Val Glu Asp Asp Gly Lys Arg
 245 250 255
 Thr Leu Glu Asp Val Ile Glu Gly Ala Asp Ile Phe Leu Gly Cys Ser
 260 265 270
 Gly Pro Lys Val Leu Thr Gln Glu Met Val Gln Lys Met Ala Arg Ala
 275 280 285
 Pro Met Ile Leu Ala Leu Ala Asn Pro Glu Pro Glu Ile Leu Pro Pro
 290 295 300
 Leu Ala Lys Ala Val Arg Glu Asp Ala Ile Ile Cys Thr Gly Arg Ser
 305 310 315 320
 Asp Tyr Pro Asn Gln Val Asn Asn Val Leu Cys Phe Pro Phe Ile Phe
 325 330 335
 Arg Gly Ala Leu Asp Val Gly Ala Thr Ala Ile Asn Glu Glu Met Lys
 340 345 350
 Leu Ala Ala Val His Ala Ile Ala Glu Leu Ala His Ala Glu Lys Ser
 355 360 365
 Glu Val Val Ala Ser Ala Tyr Gly Asp Gln Asp Leu Ser Phe Gly Pro
 370 375 380
 Asp Tyr Ile Ile Pro Lys Pro Phe Asp Pro Arg Leu Ile Val Lys Ile
 385 390 395 400
 Ala Pro Ala Val Ala Lys Ala Ala Met Asp Ser Gly Val Ala Thr Arg
 405 410 415
 Pro Ile Glu Asp Phe Asp Ala Tyr Val Asp Lys Leu Thr Glu Phe Val
 420 425 430
 Tyr Lys Thr Asn Leu Phe Met Lys Pro Ile Phe Ser Gln Ala Arg Ala
 435 440 445
 Asp Ala Lys Arg Val Val Leu Ala Glu Gly Glu Glu Ala Arg Val Leu
 450 455 460
 His Ala Thr Gln Glu Leu Ile Thr Leu Gly Leu Ala Lys Pro Ile Leu
 465 470 475 480
 Ile Gly Arg Pro Ser Val Ile Glu Met Arg Ile Gln Lys Leu Gly Leu
 485 490 495
 Gln Ile Lys Pro Gly Val Asp Phe Glu Ile Val Asn Asn Glu Ser Asp
 500 505 510
 Pro Arg Phe Lys Glu Tyr Trp Asn Glu Tyr Tyr Ser Ile Met Lys Arg
 515 520 525
 Arg Gly Ile Thr Gln Glu Gln Ala Gln Arg Ala Val Ile Ser Asn Thr
 530 535 540
 Thr Val Ile Gly Ala Ile Met Val His Arg Gly Glu Ala Asp Ala Leu
 545 550 555 560
 Ile Cys Gly Thr Ile Gly Glu Tyr His Glu His Phe Ser Val Val Gln
 565 570 575
 Glu Ile Phe Gly Tyr Arg Glu Gly Val His Thr Ala Gly Ala Met Asn
 580 585 590
 Ala Leu Leu Leu Pro Ser Gly Asn Thr Phe Ile Ala Asp Thr Tyr Val
 595 600 605
 Asn Asp Asp Pro Ser Pro Glu Glu Leu Ala Glu Ile Thr Val Met Ala
 610 615 620
 Ala Glu Thr Val Arg Arg Phe Gly Ile Glu Pro Lys Val Ala Leu Leu
 625 630 635 640
 Ser His Ser Asn Phe Gly Ser Ser Lys Ser Ala Ala Ala Cys Lys Met

645 650 655
 Arg Gln Thr Leu Asp Leu Val Arg Glu Arg Ala Pro Glu Leu Met Ile
 660 665 670
 Asp Gly Glu Met His Gly Asp Ala Leu Val Glu Ser Ile Arg Asn
 675 680 685
 Glu Arg Met Pro Asp Ser Pro Leu Lys Gly Ser Ala Asn Val Leu Ile
 690 695 700
 Met Pro Asn Val Glu Ala Ala Arg Ile Ser Tyr Asn Leu Leu Arg Val
 705 710 715 720
 Ser Ser Ser Glu Gly Val Thr Val Gly Pro Val Leu Met Gly Val Ser
 725 730 735
 Lys Pro Val His Val Leu Thr Pro Ile Ala Ser Val Arg Arg Ile Val
 740 745 750
 Asn Met Val Ala Leu Ala Val Val Glu Ala Gln Thr Gln Pro Leu
 755 760 765

<210> 10059

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 10059

His Tyr Ala Lys Phe Trp Arg Val Phe Pro Arg Leu Leu Ala Lys Cys
 1 5 10 15
 Pro Val His Ala Ile Ile Thr Val Phe Lys Pro Glu Lys Ala Val Asn
 20 25 30
 Thr Met Glu Ile Arg Val Phe Arg Gln Glu Asp Phe Glu Glu Val Ile
 35 40 45
 Thr Leu Trp Glu Arg Cys Asp Leu Leu Arg Pro Trp Asn Asp Pro Glu
 50 55 60
 Met Asp Ile Glu Arg Lys Val Asn His Asp Val Ser Leu Phe Leu Val
 65 70 75 80
 Ala Glu Val Asn Gly Glu Val Val Gly Thr Val Met Gly Gly Tyr Asp
 85 90 95
 Gly His Arg Gly Ser Ala Tyr Tyr Leu Gly Val His Pro Glu Tyr Arg
 100 105 110
 Ala Arg Gly Ile Ala Asn Ala Leu Leu Asn Arg Leu Glu Lys Lys Leu
 115 120 125
 Ile Ala Arg Gly Cys Pro Lys Ile Gln Ile Met Val Arg Glu Asp Asn
 130 135 140
 Asp Val Val Leu Gly Met Tyr Glu Arg Leu Gly Tyr Glu His Ala Asp
 145 150 155 160
 Val Leu Thr Leu Gly Lys Arg Leu Ile Glu Asp Glu Glu Tyr
 165 170 175

<210> 10060

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 10060

Pro Pro Ser Met Pro Arg Ser Arg Gly Ile Phe Phe Ser Gly Gly Ala
 1 5 10 15
 Met Ser Gln Val Gln Ser Gly Ile Leu Pro Glu His Cys Arg Ala Ala
 20 25 30
 Ile Trp Ile Glu Ala Asn Val Lys Gly Asp Val Asp Ala Leu Arg Ala
 35 40 45
 Ala Ser Lys Val Phe Val Asp Lys Leu Ala Thr Phe Gln Ala Lys Phe
 50 55 60
 Pro Glu Ala His Leu Gly Ala Val Val Ala Phe Gly Asn Thr Val Trp
 65 70 75 80

Arg Gln Leu Ser Gly Gly Glu Gly Ala Lys Glu Leu Lys Asp Phe Ile
 85 90
 Pro Tyr Gly Lys Gly Leu Ala Pro Ala Thr Gln Tyr Asp Val Leu Ile
 100 105
 His Ile Leu Ser Leu Arg His Asp Val Asn Phe Ser Ile Ala Gln Ala
 115 120
 Ala Ile Glu Ala Phe Gly Asp Ser Ile Asp Val Gln Glu Glu Ile His
 130 135
 Gly Phe Arg Trp Val Glu Glu Arg Asp Leu Ser Gly Phe Val Asp Gly
 145 150
 Thr Glu Asn Pro Ala Gly Glu Glu Thr Arg Glu Val Ala Val Ile
 165 170
 Lys Asp Gly Val Asp Ala Gly Gly Ser Tyr Val Phe Val Gln Arg Trp
 180 185
 Glu His Asn Leu Arg Gln Leu Asn Arg Met Ser Val His Asp Gln Glu
 195 200
 Met Met Ile Gly Arg Thr Lys Asp Ala Asn Glu Glu Ile Asp Gly Asp
 210 215
 Ala Arg Pro Val Thr Ser His Leu Ser Arg Val Asp Leu Lys Glu Asp
 225 230
 Gly Lys Gly Leu Lys Ile Val Arg Gln Ser Leu Pro Tyr Gly Thr Ala
 245 250
 Ser Gly Thr His Gly Leu Tyr Phe Cys Ala Tyr Cys Ala Arg Leu Tyr
 260 265
 Asn Ile Glu Gln Gln Leu Leu Ser Met Phe Gly Asp Thr Asp Gly Lys
 275 280
 Arg Asp Ala Met Leu Arg Phe Thr Arg Pro Val Thr Gly Gly Tyr Tyr
 290 295
 Phe Ala Pro Ser Val Glu Arg Leu Leu Ala Leu
 305 310 315

<210> 10061

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 10061

Val Met Phe Ala Gly Ser Thr Arg Arg Val Leu Pro Gly Phe Thr Leu
 5 10 15
 Ser Leu Gly Thr Ser Leu Leu Phe Val Cys Leu Ile Leu Leu Pro
 20 25 30
 Leu Ser Ala Leu Val Met Gln Leu Ala Glu Met Ser Trp Ser Gln Tyr
 35 40 45
 Trp Glu Val Val Thr Asn Pro Gln Val Val Ala Ala Tyr Lys Val Thr
 50 55 60
 Leu Leu Ser Ala Phe Val Ala Ser Ile Phe Asn Gly Val Phe Gly Leu
 65 70 75 80
 Leu Met Ala Trp Ile Leu Thr Arg Tyr Arg Phe Pro Gly Arg Thr Leu
 85 90 95
 Leu Asp Ala Leu Met Asp Leu Pro Phe Ala Leu Pro Thr Ala Val Ala
 100 105 110
 Gly Leu Thr Leu Ala Ser Leu Phe Ser Val Asn Gly Phe Tyr Gly Glu
 115 120 125
 Trp Leu Ala Lys Phe Asp Ile Lys Val Thr Tyr Thr Trp Leu Gly Ile
 130 135 140
 Ala Val Ala Met Ala Phe Thr Ser Ile Pro Phe Val Val Arg Thr Val
 145 150 155 160
 Gln Pro Val Leu Glu Glu Leu Gly Pro Glu Tyr Glu Glu Ala Ala Glu
 165 170 175
 Thr Leu Gly Ala Thr Arg Trp Gln Ser Phe Arg Lys Val Val Leu Pro
 180 185 190

Glu Leu Ser Pro Ala Leu Leu Ala Gly Val Ala Leu Ser Phe Thr Arg
 195 200 205
 Ser Leu Gly Glu Phe Gly Ala Val Ile Phe Ile Ala Gly Asn Ile Ala
 210 215 220
 Trp Lys Thr Glu Val Thr Ser Leu Met Ile Phe Val Arg Leu Gln Glu
 225 230 235 240
 Phe Asp Tyr Pro Ala Ala Ser Ala Ile Ala Ser Val Ile Leu Ala Ala
 245 250 255
 Ser Leu Leu Leu Leu Phe Ser Ile Asn Thr Leu Gln Ser Arg Phe Gly
 260 265 270
 Arg Arg Val Val Gly His
 275

<210> 10062

<211> 377

<212> FRT

<213> Enterobacter cloacae

<400> 10062

Arg Ile Arg Lys Asn Val Ser Ile Arg Arg Glu Ile Met Ser Ile Glu
 1 5 10 15
 Ile Ala Asn Ile Lys Lys Ser Phe Gly Arg Thr Gln Val Leu Asn Asp
 20 25 30
 Ile Ser Leu Asp Ile Pro Ser Gly Gln Met Val Ala Leu Leu Gly Pro
 35 40 45
 Ser Gly Ser Gly Lys Thr Thr Leu Leu Arg Ile Ile Ala Gly Leu Glu
 50 55 60
 His Gln Thr Ser Gly His Ile Arg Phe His Gly Thr Asp Val Ser Arg
 65 70 75 80
 Leu His Ala Arg Asp Arg Lys Val Gly Phe Val Phe Gln His Tyr Ala
 85 90 95
 Leu Phe Arg His Met Thr Val Phe Asp Asn Ile Ala Phe Gly Leu Thr
 100 105 110
 Val Leu Pro Arg Arg Glu Arg Pro Asp Ala Ala Ala Ile Lys Ala Lys
 115 120 125
 Val Thr Lys Leu Leu Glu Met Val Gln Leu Ala His Leu Ala Asp Arg
 130 135 140
 Phe Pro Ala Gln Leu Ser Gly Gly Gln Lys Gln Arg Val Ala Leu Ala
 145 150 155 160
 Arg Ala Leu Ala Val Glu Pro Gln Ile Leu Leu Asp Glu Pro Phe
 165 170 175
 Gly Ala Leu Asp Ala Gln Val Arg Lys Glu Leu Arg Arg Trp Leu Arg
 180 185 190
 Gln Leu His Glu Glu Leu Gln Phe Thr Ser Val Phe Val Thr His Asp
 195 200 205
 Gln Glu Glu Ala Met Glu Val Ala Asp Arg Val Val Val Met Ser Gln
 210 215 220
 Gly Asn Ile Glu Gln Val Asp Glu Pro Glu Gln Leu Trp Arg Glu Pro
 225 230 235 240
 Ala Thr Arg Phe Val Leu Glu Phe Met Gly Glu Val Asn Arg Leu Gln
 245 250 255
 Gly Thr Ile Arg Gly Gly Gln Phe His Val Gly Ala His Arg Trp Pro
 260 265 270
 Leu Gly Tyr Thr Ser Ala His Gln Gly Pro Val Asp Leu Phe Leu Arg
 275 280 285
 Pro Trp Glu Val Asp Val Ser Arg Arg Thr Ser Leu Asp Ser Pro Leu
 290 295 300
 Pro Val Gln Val Leu Glu Ala Ser Pro Lys Gly His Tyr Thr Gln Leu
 305 310 315 320
 Val Val Gln Pro Leu Gly Trp Tyr Thr Glu Pro Leu Thr Val Val Met
 325 330 335

Arg Asp Asp Glu Pro Pro His Arg Gly Glu Arg Leu Phe Val Gly Leu
 340 345 350
 Gln His Ala Arg Ile Tyr His Gly Asn Glu Arg Ile Glu Thr Arg Glu
 355 360 365
 Asp Ile Ala Leu Ala Glu Ser Ala
 370 375

<210> 10063

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 10063

Arg Glu Leu Phe Ala Gly Gly Gly Asp Leu Ser Val Met Glu Met Ile
 1 5 10 15
 Leu Phe Arg Asp Asn Thr Arg Ala Gln Gln Thr Asp Ile Val Ala Val
 20 25 30
 Gln Ser Gln Val Val Tyr Gly Ser Val Gly Asn Ser Ile Ala Val Pro
 35 40 45
 Asn Ile Arg Thr His Arg Leu Asn Val Thr Ala Val Pro Thr Val Leu
 50 55 60
 Phe Ser Asn Thr Pro His Tyr Asp Thr Phe Tyr Gly Gly Val Ile Pro
 65 70 75 80
 Asp Glu Trp Phe Ser Gly Tyr Leu Lys Ala Leu Glu Glu Arg Glu Ile
 85 90 95
 Leu Arg Glu Leu Lys Ala Val Thr Thr Gly Tyr Met Gly Ser Ala Ser
 100 105 110
 Gln Ile Val Leu Leu Ala Gln Trp Leu Lys Ala Ile Lys Val Gln His
 115 120 125
 Pro Asp Leu Leu Val Leu Val Asp Pro Val Ile Gly Asp Ile Asp Ser
 130 135 140
 Gly Met Tyr Val Lys Pro Asp Ile Pro Glu Ala Tyr Arg Glu His Leu
 145 150 155 160
 Leu Pro Leu Ala Gln Gly Ile Thr Pro Asn Val Tyr Glu Leu Glu Val
 165 170 175
 Leu Ser Gly Lys Pro Cys Arg Thr Pro Glu Ser Ala Ile Ala Ala Ala
 180 185 190
 Gln Gly Leu Leu Ser Asn Ser Leu Lys Trp Val Ala Ile Thr Ser Ala
 195 200 205
 Pro Val Ala Asp Asp Pro Gln Asn Ile His Val Val Leu Val Ser Glu
 210 215 220
 Gly Gly Val Thr Val Ser Ala His Pro Arg Val Glu Thr Asp Leu Lys
 225 230 235 240
 Gly Thr Gly Asp Leu Phe Cys Ser Glu Leu Val Ser Gly Ile Val Gly
 245 250 255
 Gly Lys Thr Val Ala Asp Ala Ile Arg Met Ala Gly Asp Arg Val Thr
 260 265 270
 Asp Val Met Ile Tyr Thr Gln Ser Lys Gly Tyr Asp Glu Leu Ile Leu
 275 280 285
 Pro Ala
 290

<210> 10064

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10064

Thr Asn Ser Ser Ile Pro Leu Ser Asp Ser Ile Glu Asn Ala Trp Leu
 1 5 10 15
 Val Ser Lys Ile Leu Pro Met Val Pro Ser Thr Gly Ala Thr Ile Leu

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<210> 10065
<211> 425
<212> PRT
<213> Enterobacter cloacae
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400> 10065															
Thr	Thr	Gln	Met	Ala	Leu	Ser	Gln	Leu	Pro	Asp	Lys	Gly	Ser	Gly	Ala
1				5					10					15	
Ala	Ser	Pro	Ala	Ala	Ser	Cys	Pro	Ala	Ala	Thr	Ile	Thr	Gly	Ile	Lys
			20					25					30		
Ile	Met	Ser	Leu	Gln	Lys	Thr	Trp	Gly	Asn	Phe	His	Leu	Ser	Ala	Met
		35					40					45			
Gly	Val	Val	Leu	Leu	Ser	Val	Leu	Leu	Val	Gly	Cys	Asp	Asp	Ser	Val
		50				55					60				
Ala	Gln	Asn	Ala	Ala	Pro	Gln	Ala	Pro	Val	Val	Ser	Ala	Ala	Asp	Val
65						70				75				80	
Val	Val	Lys	Ser	Ile	Ser	Gln	Trp	Asp	Ser	Phe	Asn	Gly	Arg	Ile	Glu
									90					95	
Ala	Val	Glu	Ser	Val	Gln	Leu	Arg	Pro	Arg	Val	Ser	Gly	Tyr	Ile	Glu
								105							
Lys	Val	Asn	Tyr	Thr	Asp	Gly	Gln	Glu	Val	Lys	Lys	Gly	Glu	Val	Leu
		115				120						125			
Phe	Thr	Ile	Asp	Asp	Arg	Thr	Tyr	Arg	Ala	Ala	Leu	Glu	Gln	Ala	Gln
		130				135					140				
Ala	Asn	Leu	Ala	Arg	Ala	Lys	Thr	Gln	Ala	Ser	Leu	Ala	Gln	Ser	Glu
145					150					155					160
Ala	Asn	Arg	Thr	Asp	Lys	Leu	Ile	Asn	Thr	His	Leu	Val	Ser	Arg	Glu
				165					170					175	
Glu	Trp	Glu	Gln	Arg	Arg	Ser	Ala	Ala	Val	Gln	Ala	Gln	Ala	Asp	Ile
								185					190		
Arg	Ala	Ala	Gln	Ala	Ala	Val	Asp	Ala	Ala	Gln	Leu	Asn	Leu	Asp	Phe
		195					200					205			
Thr	Lys	Val	Thr	Ala	Pro	Ile	Asp	Gly	Arg	Ala	Ser	Arg	Ala	Leu	Ile
		210				215					220				
Thr	Ser	Gly	Asn	Leu	Val	Thr	Ala	Gly	Asp	Ser	Ala	Ser	Val	Leu	Thr
225					230					235				240	
Thr	Leu	Val	Ser	Gln	Lys	Thr	Val	Tyr	Val	Tyr	Phe	Asp	Val	Asp	Glu
				245					250					255	
Ser	Thr	Tyr	Leu	His	Tyr	Gln	Lys	Leu	Ala	Arg	Ser	Gly	Gln	Gly	Ala
			260					265					270		
Ser	Ser	Asn	His	Thr	Ala	Leu	Pro	Val	Glu	Ile	Gly	Leu	Thr	Gly	Glu
		275					280					285			
Glu	Gly	Tyr	Pro	His	Gln	Gly	Lys	Val	Asp	Phe	Leu	Asp	Asn	Gln	Leu
	290					295					300				
Thr	Pro	Gly	Thr	Gly	Thr	Ile	Arg	Met	Arg	Ala	Leu	Leu	Asp	Asn	Ser
305					310					315					320
Gln	Arg	Gln	Phe	Thr	Pro	Gly	Leu	Phe	Ala	Arg	Val	Arg	Leu	Pro	Gly
				325					330					335	
Ser	Ala	Glu	Phe	Lys	Ala	Thr	Leu	Val	Asp	Asp	Lys	Ala	Val	Leu	Thr
			340					345					350		
Asp	G														

355	360	365
Gln Arg Arg Asp Ile Thr Pro Gly Arg Leu Ala Asp Gly Leu Arg Ile		
370	375	380
Val Gln Gln Gly Leu Asn Pro Gly Asp Lys Val Ile Val Asp Gly Leu		
385	390	395
Gln Lys Val Phe Met Pro Gly Met Pro Val Asn Ala Lys Thr Val Ala		
405	410	415
Met Thr Ala Ser Ala Ala Leu Asn		
420	425	

<210> 10066

<211> 793

<212> PRT

<213> Enterobacter cloacae

<400> 10066

Val Asn Arg Ile Pro Ser Leu Ile Phe Lys Ile Pro Pro Pro Leu Cys	
1	5
Leu Pro Gly Ile Phe Arg Ala Thr Cys Thr Ser Gly Trp Met Pro Val	
20	25
Phe Leu Tyr Pro Leu Glu Arg Lys Gly Cys Lys Arg Ala Ser Met Asn	
35	40
Ile His His Ile Leu Lys Gln Asn Lys Asp Arg Trp Trp Ala Leu Pro	
50	55
Leu Ile Leu Pro Val Val Leu Leu Pro Val Leu Ser Val Ala Asn Thr	
65	70
Leu Thr Gln Leu Gly Asp Gly Ile Val Ala Leu Tyr Tyr Leu Pro Leu	
85	90
Ser Phe Leu Leu Ala Leu Met Leu Phe Phe Gly Leu Glu Ala Leu Pro	
100	105
Gly Val Val Val Ser Leu Phe Leu Arg Tyr Tyr Pro Ser Val Gly Leu	
115	120
Phe Glu Thr Val Ala Gly Ile Leu His Phe Ile Val Pro Leu Val Leu	
130	135
Ser Trp Gly Gly Tyr Arg Val Phe Ala Pro Arg Arg Asn Met Thr Ala	
145	150
Tyr Gly Asp Ile Arg Leu Met Gly Gln Arg Ile Phe Trp Gln Val Phe	
165	170
Cys Pro Ala Thr Leu Phe Leu Val Leu Phe Gln Phe Ala Val Tyr Leu	
180	185
Gly Ile Tyr Glu Ser Arg Gln Ser Leu Ala Gly Leu Asn Pro Leu Asn	
195	200
Ile Arg Thr Leu Ile Asn Tyr Gln Gly Leu Leu Val Ser Gly Leu Thr	
210	215
Gly Val Pro Leu Ser Tyr Leu Leu Ile Arg Leu Ile Arg His Pro Arg	
225	230
Tyr Ile Lys Gly Leu Met Ser Gln Leu Arg Ala Gln Ile Asp Lys Lys	
245	250
Val Thr Ala Val Glu Phe Val Val Trp Phe Leu Ala Leu Gly Gly Leu	
260	265
Leu Val Met Leu Leu Leu Pro Met Asn Ala Asn Ser Ser Ile Phe Ser	
275	280
Thr Asn Tyr Thr Leu Ser Leu Leu Met Pro Val Met Leu Trp Gly Ala	
290	295
Met Arg Phe Gly Tyr Lys Leu Met Ser Leu Ile Trp Thr Pro Val Leu	
305	310
Leu Val Ser Ile His Phe Phe Tyr His Trp Ile Pro Val Gln Glu Gly	
325	330
Tyr Gly Ile Gln Leu Ala Ile Thr Ser Ser Ser Tyr Leu Val Phe Ser	
340	345
Phe Val Val Thr Tyr Met Ser Met Leu Ala Thr Arg Gln Arg Ala Ile	
	350

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      355              360              365
Asn Ile Arg Ser Arg Ser Gln Ala Phe Leu Asp Pro Val Val His Met
 370              375              380
Pro Asn Leu Arg Ala Leu Ser Arg Glu Leu Ala Ser His Pro Trp Ser
 385              390              395              400
Ala Leu Cys Leu Leu Arg Val Pro Glu Leu Glu Val Leu Gly Arg Asn
      405              410              415
Tyr Gly Val Met Leu Arg Ile Gln Tyr Lys Gln Gln Leu Ala Gln Trp
      420              425              430
Ile Asn Gly Thr Leu Gln Pro Asn Glu Arg Val Tyr His Leu Thr Gly
      435              440              445
Tyr Asp Met Ala Val Arg Leu Asp Ala Glu Ser His Gln Gln Arg Ile
      450              455              460
Glu Thr Leu Asp Glu His Ile Lys Gln Phe Val Phe Val Trp Asp Gly
      465              470              475
Met Pro Val Gln Pro Gln Val Gly Ile Ser Tyr Cys Tyr Val Arg Ser
      485              490              495
Pro Val Asn His Leu Tyr Leu Val Leu Gly Glu Leu Gly Ile Val Ala
      500              505              510
Asp Leu Ser Leu Ser Thr Asn His Pro Glu Asn Leu Gln Gln Arg Gly
      515              520              525
Ala Val His Leu Gln Arg Ser Leu Lys Asp Lys Val Ala Met Met Ser
      530              535              540
Arg Leu Gln Ala Ala Leu Glu Gln Asp Ala Phe Thr Leu Leu Val Gln
      545              550              555
Pro Val Arg Gly Leu Arg Gly Asp Cys Tyr His Glu Val Leu Leu Arg
      565              570              575
Met Arg Asp Asp Asn Gly Ala Leu Ile Phe Pro Glu Gln Phe Leu Pro
      580              585              590
Ile Ala Gln Glu Phe Gly Leu Ser Ser Arg Val Asp Leu Trp Val Leu
      595              600              605
Glu Arg Thr Leu Ser Phe Leu Ala Gln His Arg Gln Arg Leu Pro Gly
      610              615              620
Gln Arg Phe Ala Ile Asn Leu Ala Pro Ser Thr Val Tyr Arg Ala Gln
      625              630              635
Phe Pro Leu Glu Val Ser Arg Leu Leu Ala Lys Tyr Ala Val Glu Ala
      645              650              655
Trp Gln Leu Ile Phe Glu Val Thr Glu Ser Ser Ala Phe Gly His Ala
      660              665              670
Asp Leu Ala Ala Ser Thr Leu Arg Lys Leu Gln Lys Met Gly Ile Arg
      675              680              685
Ile Ala Ile Asp Asp Phe Gly Thr Gly Tyr Ala Ser Tyr Ala Arg Leu
      690              695              700
Lys Ser Val Asp Ala Asp Ile Leu Lys Ile Asp Gly Gly Phe Ile Arg
      705              710              715
Asn Ile Val Ser Asn Ser Leu Asp Tyr Gln Ile Val Ala Ser Ile Cys
      725              730              735
His Leu Ala Arg Met Lys Lys Met Leu Val Val Ala Glu Tyr Val Glu
      740              745              750
Thr Glu Glu Ile Arg Ser Ala Val His Ala Leu Gly Ile Asp Tyr Val
      755              760              765
Gln Gly Tyr Leu Ile Gly Leu Pro Ala Glu Leu Asp Thr Leu Leu Asp
      770              775              780
Thr Glu Pro Ser Gln Glu Ser Ala
      785              790

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<210> 10067

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10067

Arg Met Ser Gly Phe Lys Ala Gly Phe Leu Trp Gly Gly Ala Val Ala
 1 5 10 15
 Ala His Gln Leu Glu Gly Gly Trp Lys Glu Gly Gly Lys Gly Val Ser
 20 25 30
 Val Ala Asp Val Met Thr Ala Gly Ala His Gly Val Pro Arg Glu Ile
 35 40 45
 Thr Asn Gly Val Met Glu Gly Lys Asn Tyr Pro Asn His Glu Ala Ile
 50 55 60
 Asp Phe Tyr His Arg Tyr Lys Glu Asp Ile Lys Leu Phe Ala Glu Met
 65 70 75 80
 Gly Phe Lys Cys Phe Arg Thr Ser Ile Ala Trp Thr Arg Ile Phe Pro
 85 90 95
 Lys Gly Asp Glu Leu Glu Pro Asn Glu Ala Gly Leu Gln Phe Tyr Asp
 100 105 110
 Asp Leu Phe Asp Glu Cys Leu Lys His Gly Ile Glu Pro Val Ile Thr
 115 120 125
 Leu Ser His Phe Glu Met Pro Phe His Leu Val Thr Glu Tyr Gly Gly
 130 135 140
 Trp Arg Asn Arg Lys Leu Ile Asp Phe Phe Val Arg Phe Ala Lys Val
 145 150 155 160
 Val Phe Glu Arg Tyr Gln His Lys Val Lys Tyr Trp Met Thr Phe Asn
 165 170 175
 Glu Ile Asn Asn Gln Ala Asn Phe His Glu Asp Phe Ala Pro Phe Thr
 180 185 190
 Asn Ser Gly Leu Lys Tyr Ala Pro Gly Glu Asp Arg Glu Pro Val Met
 195 200 205
 Phe Gln Ala Ala His Tyr Glu Leu Val Ala Ser Ala Leu Ala Val Lys
 210 215 220
 Ala Gly Arg Glu Ile Asn Pro Ser Leu Gln Ile Gly Cys Met Ile Ala
 225 230 235 240
 Met Cys Pro Ile Tyr Pro Leu Thr Cys Ala Pro Asp Asp Met Met Met
 245 250 255
 Ala Met Asn Ala Met His Arg Arg Tyr Trp Phe Thr Asp Val His Val
 260 265 270
 Arg Gly Lys Tyr Pro Gln His Leu Leu Asn Tyr Phe Glu Arg Arg Gly
 275 280 285
 Phe Ala Leu Asp Ile Thr Glu Glu Asp Lys Val Ala Leu Thr Gln Gly
 290 295 300
 Cys Val Asp Tyr Ile Gly Phe Ser Tyr Tyr Met Ser Phe Ala Thr Lys
 305 310 315 320
 Ala Thr Ala Asp Asn Pro Thr Leu Asp Tyr Asp Glu Ser Lys Ser Leu
 325 330 335
 Val Ser Asn Pro Tyr Val Gln Lys Ser Asp Trp Gly Trp Gln Ile Asp
 340 345 350
 Pro Val Gly Leu Arg Tyr Ser Leu Asn Trp Phe Trp Asp His Tyr Gln
 355 360 365
 Leu Pro Leu Phe Ile Val Glu Asn Gly Phe Gly Ala Ile Asp Val Gln
 370 375 380
 Glu Ser Asp Gly Thr Val Asn Asp Gln Tyr Arg Ile Asp Tyr Leu Ser
 385 390 395 400
 Ala His Ile Arg Glu Met Lys Lys Ala Val Val Glu Asp Gly Val Asp
 405 410 415
 Leu Met Gly Tyr Thr Pro Trp Gly Cys Ile Asp Leu Val Ser Ala Gly
 420 425 430
 Thr Gly Glu Met Lys Lys Arg Tyr Gly Phe Ile Phe Val Asp Lys Asp
 435 440 445
 Asn Glu Gly Asn Gly Thr Leu Asn Arg Ser Lys Lys Ser Phe Asp
 450 455 460
 Trp Tyr Lys Gln Val Ile Ala Ser Asn Gly Glu Gln Leu
 465 470 475

<210> 10068
 <211> 297
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 10068
 Asn Arg Ser Gln Ser Ile Arg Cys Ser Asp Ile Asn Leu Ile Arg Leu
 1 5 10 15
 Val Ala Glu Arg Asp Ala Met Glu Ile Lys Leu His Ala Asn Ala Thr
 20 25 30
 Thr Thr Pro Arg Ile Arg Arg Tyr Leu Gln Gln Ser Asp Lys Ser Asp
 35 40 45
 Arg Glu Leu Ala Val Glu Leu Gly Ile Ser Val Thr Thr Val Arg Arg
 50 55 60
 Trp Arg Asn Arg Asp Gln Val Ser Asp Asn His Thr Thr Pro Lys Val
 65 70 75 80
 Ile His Lys Ala Leu Arg Gln Glu Gln Ala Ala Leu Ile Asn Ala Leu
 85 90 95
 Arg Asp Ile Thr Gly Ala Pro Leu Asp Glu Leu Leu Leu Val Asn
 100 105 110
 Asp Gly Leu Gly Ile Ala Val Ser Arg Ala Thr Leu Asn Arg Tyr Leu
 115 120 125
 Lys Pro Ala Ser Val Arg Gln Lys Gly Ala Ser Leu Gln Gly Lys Lys
 130 135 140
 Ala Leu Lys Ala Gly Ile Met Pro Gln Lys Leu Leu Leu His His Gln
 145 150 155 160
 Pro Leu Ser Leu His Met Asp Asp Gly Gly Glu Gln His Leu Leu Trp
 165 170 175
 Ala Arg Glu Pro Val Ser Gly Trp Cys Tyr Ala Arg Leu Tyr Ala Gly
 180 185 190
 Val Ser Pro Gln Leu Leu Thr Arg Trp Thr Asn Glu Val Leu Ala Ala
 195 200 205
 Cys Pro Ala Asp Ile Gln Ser Val Glu Thr Phe Gly Leu Ala Val Asn
 210 215 220
 Leu Pro Glu His Asn Val Thr Val Lys Val His Ser Gln Tyr Tyr Leu
 225 230 235 240
 Ala Leu Gln Val Thr Val Pro Leu Arg Glu Ile Ile Pro Arg Val Asn
 245 250 255
 Ser Glu Pro Ala Gly Ala Leu Leu Ile Gln Leu Cys Glu Phe Tyr Asn
 260 265 270
 Arg Gly Lys Ala Gln Lys Lys Leu Gly Glu Arg Thr Pro Gln Ala Phe
 275 280 285
 Leu Lys Ala Leu Arg Arg Asn Asp
 290 295

<210> 10069
 <211> 302
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 10069
 Gly Ser Cys Ser His Arg Gly Trp Leu Met Phe Thr Gly Ser Ile Val
 1 5 10 15
 Ala Leu Val Thr Pro Met Asp Glu Lys Gly Asn Val Cys Arg Ser Ser
 20 25 30
 Met Lys Lys Leu Ile Asp Tyr His Val Ala Asn Gly Thr Ser Ala Ile
 35 40 45
 Val Ser Val Gly Thr Thr Gly Glu Ser Ala Thr Leu Ser His Glu Glu
 50 55 60
 His Gly Asp Val Val Met Leu Thr Leu Glu Leu Ala Asp Gly Arg Ile

```

65          70          75          80
Pro Val Ile Ala Gly Thr Gly Ala Asn Ala Thr Ala Glu Ala Ile Ser
85
Leu Thr Gln Arg Phe Asn Asp Ser Gly Ile Val Gly Cys Leu Thr Val
100
Thr Pro Tyr Tyr Asn Arg Pro Thr Gln Glu Gly Leu Phe Gln His Phe
115
Lys Ala Ile Ala Glu His Thr Asp Leu Pro Gln Ile Leu Tyr Asn Val
130
Pro Ser Arg Thr Gly Cys Asp Met Leu Pro Glu Thr Val Gly Arg Leu
145
Ser Lys Val Lys Asn Ile Ile Gly Ile Lys Glu Ala Thr Gly Asn Leu
165
Ser Arg Val His Gln Ile Lys Glu Leu Val Ser Asp Asp Phe Ile Leu
180
Leu Ser Gly Asp Asp Ala Thr Ala Leu Asp Phe Met Gln Leu Gly Gly
195
Asn Gly Val Ile Ser Val Thr Ala Asn Val Ala Ala Arg Asp Met Ala
210
Asp Met Cys Lys Leu Ala Ala Gly His Phe Asp Glu Ala Arg Val
225
Ile Asn Gln Arg Leu Met Pro Leu His Asn Lys Leu Phe Val Glu Pro
245
Asn Pro Ile Pro Val Lys Trp Ala Cys Lys Glu Leu Gly Leu Val Ala
260
Thr Asp Thr Leu Arg Leu Pro Met Thr Pro Ile Thr Asp His Gly Arg
275
Glu Ile Val Ala Gly Ala Leu Lys His Ala Gly Leu Leu
290
295
300

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<210> 10070

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10070

```

Ser Trp Arg Leu Gly Leu Ile Arg Thr Pro Cys Arg Gly Phe Arg Arg
1          5          10          15
Arg Ala Ser Thr Pro Thr Thr Gly Gly Ala Ser Arg Pro Pro Trp Arg
20          25          30
Ala Val Ile Ala Thr Arg Pro Arg Ile Arg Arg Phe Leu Leu Ala Val
35          40          45
Met Arg Tyr Ala Val Arg Ile Trp Trp Ser Pro Arg Trp Arg Lys Gly
50          55          60
Ala Met Pro Arg Arg Gly Ser Trp Thr Gly Leu Ala Cys Arg Arg Ala
65          70          75          80
Thr Cys Ile Asn Ala Asp Gly Arg Gln Ser Gly Leu His Gly Val Val
85          90          95

```

<210> 10071

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 10071

```

Thr Asp Ser Phe Cys Arg Gly Ala Arg Met Ser Pro Asn Ile Ser Val
1          5          10          15
Ile Lys Asp Lys Ile Leu Ser Glu Asn Tyr Phe Val Leu Arg Asn Ile
20          25          30

```

```

Thr Tyr Asp Leu Thr Arg Lys Asn Gly Asp Val Ile Arg His Lys Arg
    35          40          45
Glu Val Tyr Asp Arg Gly Asn Gly Ala Thr Ile Leu Leu Tyr Asn Arg
    50          55          60
Glu Lys Gln Ser Val Val Leu Ile Arg Gln Phe Arg Ile Ala Thr Trp
    65          70          75          80
Val Asn Gly Asn Ala Asp Gly Arg Leu Ile Glu Thr Cys Ala Gly Leu
    85          90          95
Leu Asp Asp Asp Glu Pro Glu Val Cys Ile Arg Lys Glu Ala Ile Glu
    100          105          110
Glu Thr Gly Phe Glu Val Gly Thr Val Gln Lys Val Phe Glu Leu Phe
    115          120          125
Met Ser Pro Gly Gly Val Thr Glu Leu Ile His Phe Phe Ile Ala Glu
    130          135          140
Tyr Thr Asp Ala Gln Arg Thr His Arg Gly Gly Glu Val Asp Asp Glu
    145          150          155          160
Asp Ile Glu Val Leu Glu Met Pro Phe Ala Lys Ala Val Asp Met Val
    165          170          175
Lys Arg Gly Glu Ile Arg Asp Gly Lys Ala Val Ile Leu Leu Gln Tyr
    180          185          190
Leu Gln Thr Ser Gly Leu Met Asn Ala Ala Ala Glu Ala Arg
    195          200          205

```

<210> 10072

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 10072

```

Ser Lys Met Lys Ser Thr Glu Phe His Pro Gly Asp Tyr Asp Val His
1      5      10      15
Gly Arg Leu Arg Leu Pro Phe Leu Phe Trp Cys Val Leu Leu Leu Gln
    20      25      30
Ala Arg Thr Trp Val Leu Phe Val Met Ala Gly Ala Ser Arg Gly Gln
    35      40      45
Gly Asp Thr Leu Leu Asn Leu Phe Tyr Pro Asp His Asp Ala Phe Trp
    50      55      60
Leu Gly Leu Leu Pro Gly Val Pro Ala Val Leu Ala Phe Leu Cys Ser
    65      70      75          80
Gly Arg Arg Gln Phe Leu Pro Arg Phe Trp Arg Ala Leu Arg Trp Leu
    85      90      95
Leu Ile Leu Ala Gln Val Val Leu Leu Val Trp Gln Pro Val Leu Trp
    100      105      110
Leu Tyr Gly Glu Pro Leu Ser Gly Ile Gly Ile Ala Leu Val Val Ala
    115      120      125
Asp Ile Val Ala Leu Leu Trp Leu Val Thr Asn Pro Arg Leu Arg Ala
    130      135          140
Cys Phe Met Gln Glu Ser Asp
    145          150

```

<210> 10073

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 10073

```

Asn Gly Thr Phe Cys Arg Tyr Cys Thr Pro Thr Ser Val Asp Leu Leu
1      5      10      15
Arg Lys Asp Val Ser Met Lys Ser Leu Arg Leu Leu Leu Cys Ala Leu
    20      25      30
Pro Leu Ala Leu Thr Gly Cys Ser Thr Leu Ser Ser Ile Asn Trp Ser

```


35 40 45
 Ala Ala Tyr Pro Trp Asn Trp Phe Gly Ser Ser Thr Glu Val Thr Glu
 50 55 60
 Gln Gly Val Gly Lys Ile Thr Ala Ser Thr Ala Leu Asp Gln Asp Ala
 65 70 75 80
 Ile Gln Asp Ala Ile Gly Ser Asp Tyr Arg Leu Arg Ser Gly Met Lys
 85 90 95
 Thr Glu Asn Gly Asn Ile Val Arg Tyr Phe Glu Ala Leu Lys Asp Asp
 100 105 110
 Lys Val Ala Met Val Ile Asn Gly Asp Lys Gly Thr Val Asn Arg Ile
 115 120 125
 Ala Val Met Asp Glu Glu Ile Pro Thr Ser Gly Gly Val Lys Val Gly
 130 135 140
 Thr Pro Phe Gly Glu Leu Tyr Gln Lys Ala Phe Gly His Cys Ala Ser
 145 150 155 160
 Val Pro Ser Glu Glu Ser Val Ala Val Glu Cys Lys Ala Asp Gly Ser
 165 170 175
 Gln His Ile Ser Tyr Val Phe Ser Gly Thr Trp Asn Gly Pro Glu Gly
 180 185 190
 Leu Met Pro Ser Asp Asp Thr Leu Lys Lys Trp Lys Val Ser Lys Ile
 195 200 205
 Ile Trp Lys Gln
 210

<210> 10074

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 10074

Gly Cys Ala Met Ala Val Thr Val Leu Lys Lys Gly Ser Leu Ala Leu
 1 5 10 15
 Ala Gly Leu Leu Leu Val Ala Gln Ala Gln Ala Thr Glu Leu Leu Asn
 20 25 30
 Ser Ser Tyr Asp Val Ser Arg Glu Leu Phe Ala Ala Leu Asn Pro Ala
 35 40 45
 Phe Glu Gln Gln Trp Ala Lys Glu Asn Asn Gly Asp Lys Leu Thr Ile
 50 55 60
 Lys Gln Ser His Ala Gly Ser Ser Lys Gln Ala Leu Ala Ile Leu Gln
 65 70 75 80
 Gly Leu Lys Ala Asp Val Val Thr Tyr Asn Gln Val Thr Asp Val Gln
 85 90 95
 Ile Leu His Asp Lys Gly Lys Leu Ile Pro Ala Asn Trp Gln Ser Arg
 100 105 110
 Leu Pro Asn Asn Ser Ser Pro Phe Tyr Ser Thr Met Gly Phe Leu Val
 115 120 125
 Arg Lys Gly Asn Pro Lys Asn Ile His Asp Trp Asn Asp Leu Val Arg
 130 135 140
 Ser Asp Val Lys Leu Ile Phe Pro Asn Pro Lys Thr Ser Gly Asn Ala
 145 150 155 160
 Arg Tyr Thr Tyr Leu Ala Ala Trp Gly Ala Ala Asp Lys Ala Asp Gly
 165 170 175
 Asn Asp Lys Ala Lys Thr Glu Gln Phe Met Thr Gln Phe Leu Lys Asn
 180 185 190
 Val Glu Val Phe Asp Thr Gly Gly Arg Gly Ala Thr Thr Thr Phe Ala
 195 200 205
 Glu Arg Gly Leu Gly Asp Val Leu Ile Ser Phe Glu Ser Glu Val Asn
 210 215 220
 Asn Ile Arg Lys Gln Tyr Glu Ala Gln Gly Phe Glu Val Val Ile Pro
 225 230 235 240
 Lys Thr Asn Ile Leu Ala Glu Phe Pro Val Ala Trp Val Asp Lys Asn

245 250 255
 Val Lys Ala Asn Gly Thr Glu Lys Ala Ala Lys Ala Tyr Leu Asn Tyr
 260 265 270
 Leu Tyr Ser Pro Gln Ala Gln Thr Val Ile Thr Asp Tyr Tyr Tyr Arg
 275 280 285
 Val Asn Asn Pro Asp Val Met Ser Lys Leu Lys Asp Lys Phe Pro Gln
 290 295 300
 Thr Glu Leu Phe Arg Val Glu Asp His Phe Gly Ala Trp Pro Glu Val
 305 310 315 320
 Met Lys Thr His Phe Ala Ser Gly Gly Glu Leu Asp Lys Leu Leu Ala
 325 330 335
 Ala Gly Arg Lys
 340

<210> 10075

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 10075

Val Lys Ile Val Asn Thr Leu Glu His Thr Ile Gly Asn Thr Pro Leu
 1 5 10 15
 Val Lys Leu Gln Arg Met Gly Cys Asp Asn Gly Ser Glu Ile Trp Val
 20 25 30
 Lys Leu Glu Gly Asn Asn Pro Ala Gly Ser Val Lys Asp Arg Ala Ala
 35 40 45
 Leu Ser Met Ile Val Gln Ala Glu Lys Arg Gly Glu Ile Lys Pro Gly
 50 55 60
 Asp Val Leu Ile Glu Ala Thr Ser Gly Asn Thr Gly Ile Ala Leu Ala
 65 70 75 80
 Met Ile Ala Ala Leu Lys Gly Tyr Arg Met Lys Leu Leu Met Pro Asp
 85 90 95
 Asn Met Ser Gln Glu Arg Arg Ala Ala Met Arg Ala Tyr Gly Ala Glu
 100 105 110
 Leu Ile Leu Val Ser Lys Glu Gln Gly Met Glu Gly Ala Arg Asp Leu
 115 120 125
 Ala Leu Ala Met Ala Glu Arg Gly Glu Gly Lys Leu Leu Asp Gln Phe
 130 135 140
 Asn Asn Pro Asp Asn Pro Tyr Ala His Tyr Thr Thr Thr Gly Pro Glu
 145 150 155 160
 Ile Trp Gln Gln Thr Ala Gly Arg Ile Thr His Phe Val Ser Ser Met
 165 170 175
 Gly Thr Thr Gly Thr Ile Thr Gly Val Ser Arg Phe Leu Arg Glu Gln
 180 185 190
 Asp Lys Pro Val Thr Ile Val Gly Leu Gln Pro Glu Glu Gly Ser Ser
 195 200 205
 Ile Pro Gly Ile Arg Arg Trp Pro Ala Glu Tyr Met Pro Gly Ile Phe
 210 215 220
 Asn Ala Gln Leu Val Asp Gln Val Leu Asp Ile His Gln Arg Glu Ala
 225 230 235 240
 Glu Asn Thr Met Arg Glu Leu Ala Val Arg Glu Gly Ile Phe Cys Gly
 245 250 255
 Val Ser Ser Gly Gly Ala Val Ala Gly Ala Ile Arg Val Ala Glu Ser
 260 265 270
 Thr Pro Gly Ala Val Val Val Ala Ile Ile Cys Asp Arg Gly Asp Arg
 275 280 285
 Tyr Leu Ser Thr Gly Val Phe Gly Glu Glu Ser Tyr Ser Gln Gly Ala
 290 295 300
 Gly Ile
 305

<210> 10076
 <211> 241
 <212> PRT
 <213> Enterobacter cloacae

<400> 10076
 Leu Met Tyr Val Lys Gln Asp Gly Tyr Gly Ala Ile Arg Lys Lys Arg
 1 5 10 15
 Tyr Asn Pro Ala Ile Phe Leu Arg Met Pro Gln Arg Arg Lys Arg
 20 25 30
 Met Lys Ile Val Glu Val Lys His Pro Leu Val Lys His Lys Leu Gly
 35 40 45
 Leu Met Arg Glu His Asp Ile Ser Thr Lys Arg Phe Arg Glu Leu Ala
 50 55 60
 Ser Glu Val Gly Ser Leu Leu Thr Tyr Glu Ala Thr Ser Asp Leu Glu
 65 70 75 80
 Thr Glu Lys Val Thr Ile Glu Gly Trp Asn Gly Pro Val Gln Val Glu
 85 90 95
 Gln Ile Lys Gly Lys Lys Ile Thr Val Val Pro Ile Leu Arg Ala Gly
 100 105 110
 Leu Gly Met Met Glu Gly Val Leu Glu His Val Pro Ser Ala Arg Ile
 115 120 125
 Ser Val Val Gly Ile Tyr Arg Asn Glu Glu Thr Leu Glu Pro Val Pro
 130 135 140
 Tyr Phe Gln Lys Leu Val Ser Asn Ile Asp Glu Arg Met Ala Leu Val
 145 150 155 160
 Val Asp Pro Met Leu Ala Thr Gly Gly Ser Met Ile Ala Thr Ile Asp
 165 170 175
 Leu Leu Lys Lys Ala Gly Cys Ser Ser Ile Lys Val Leu Val Leu Val
 180 185 190
 Ala Ala Pro Glu Gly Ile Ala Ala Leu Glu Lys Ala His Pro Asp Val
 195 200 205
 Glu Leu Tyr Thr Ala Ser Val Asp Gln Gly Leu Asn Glu His Gly Tyr
 210 215 220
 Ile Ile Pro Gly Leu Gly Asp Ala Gly Asp Lys Ile Phe Gly Thr Lys
 225 230 235 240

<210> 10077
 <211> 371
 <212> PRT
 <213> Enterobacter cloacae

<400> 10077
 Ile Gln Phe Thr Val Ser Leu Pro Pro Phe Asp Ser Gly Lys Gly Cys
 1 5 10 15
 Met Leu Glu Met Leu Met Gln Trp Tyr Arg Arg Arg Phe Ser Asp Pro
 20 25 30
 Glu Ala Ile Ala Leu Leu Val Ile Leu Val Ala Gly Phe Gly Ile Leu
 35 40 45
 Phe Phe Phe Ser Gly Leu Leu Ala Pro Leu Leu Val Ala Ile Val Leu
 50 55 60
 Ala Tyr Leu Leu Glu Trp Pro Thr Ala Arg Leu Glu His Ile Gly Cys
 65 70 75 80
 Ser Arg Arg Trp Ala Thr Ser Ile Val Leu Val Leu Phe Val Gly Ile
 85 90 95
 Leu Leu Leu Met Ser Phe Val Val Met Pro Ile Ala Trp Gln Gln Gly
 100 105 110
 Ile Tyr Leu Ile Arg Asp Met Pro Gly Met Leu Asn Lys Leu Ser Asp
 115 120 125

Phe Ala Ala Thr Leu Pro Arg Arg Tyr Pro Ala Leu Met Asp Ala Gly
 130 135 140
 Ile Ile Asp Ala Met Ala Glu Asn Met Arg Ala Arg Ile Met Thr Met
 145 150 155 160
 Gly Asp Ser Val Val Lys Tyr Ser Leu Ala Ser Leu Val Gly Leu Leu
 165 170 175
 Thr Leu Ala Val Tyr Leu Val Leu Val Pro Leu Met Val Phe Phe Leu
 180 185 190
 Val Lys Asp Lys Glu Gln Met Leu Asn Ala Val Arg Arg Val Leu Pro
 195 200 205
 Arg Asn Arg Gly Leu Ala Gly Gln Val Trp Gln Glu Met Asn Gln Gln
 210 215 220
 Ile Thr Asn Tyr Ile Arg Gly Lys Val Leu Glu Met Ile Val Val Gly
 225 230 235 240
 Val Ala Thr Trp Ile Gly Phe Val Ile Phe Gly Leu Asn Tyr Ser Leu
 245 250 255
 Leu Leu Ala Val Leu Val Gly Phe Ser Val Leu Ile Pro Tyr Ile Gly
 260 265 270
 Ala Phe Val Val Thr Ile Pro Val Val Gly Val Ala Leu Phe Gln Phe
 275 280 285
 Gly Leu Gly Thr Glu Phe Trp Ser Cys Phe Ala Val Tyr Leu Ile Ile
 290 295 300
 Gln Gly Leu Asp Gly Asn Leu Leu Val Pro Val Leu Phe Ser Glu Ala
 305 310 315 320
 Val Asn Leu His Pro Leu Val Ile Ile Leu Ser Val Val Ile Phe Gly
 325 330 335
 Gly Leu Trp Gly Phe Trp Gly Val Phe Phe Ala Ile Pro Leu Ala Thr
 340 345 350
 Leu Ile Lys Ala Val Val His Ala Trp Pro Asp Val Pro Ala Val Glu
 355 360 365
 Asp Lys
 370

<210> 10078

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 10078

Gly Asp Leu Met Ala Tyr Ser Val Gln Lys Ser Arg Leu Ala Lys Val
 1 5 10 15
 Ala Gly Val Ser Leu Val Met Leu Leu Ala Ala Cys Ser Ser Asp Ser
 20 25 30
 Arg Tyr Lys Arg Gln Val Ser Gly Asp Glu Ser Tyr Leu Asp Ala Pro
 35 40 45
 Pro Leu Ala Glu Leu His Ala Pro Ala Gly Met Ile Leu Pro Ile Gln
 50 55 60
 Asn Gly Asp Tyr Asn Ile Pro Val Thr Asn Gly Ser Gly Leu Val Gly
 65 70 75 80
 Lys Ala Leu Asp Ile Arg Pro Pro Ala Gln Pro Leu Ala Leu Val Ser
 85 90 95
 Gly Ala Arg Thr Gln Phe Thr Gly Asp Thr Ala Ser Leu Leu Val Glu
 100 105 110
 Ser Ala Arg Gly Thr Thr Leu Trp Pro Gln Val Val Ser Val Ile Gln
 115 120 125
 Ser Lys Asn Tyr Thr Ile Asp Lys Arg Asp Asp Ala Ser Gln Ala Leu
 130 135 140
 Thr Thr Asp Trp Ile Glu Trp Asn Arg Leu Asp Glu Asp Gln Gln Tyr
 145 150 155 160
 Arg Gly Arg Tyr Gln Val Ser Val Lys Pro Gln Gly Tyr Gln Gln Ala
 165 170 175

Val Thr Val Lys Leu Leu Asn Leu Asp Gln Ala Gly Lys Pro Val Ala
 180 185 190
 Asp Pro Ser Ala Met Gln Arg Tyr Ser Thr Glu Met Leu Asn Val Ile
 195 200 205
 Ala Ala Gly Leu Asp Lys Asn Ala Thr Asp Ala Ala Asn Ala Ala Gln
 210 215 220
 Asn Arg Asn Gly Ser Thr Phe Asp Val Gln Ser Gly Ala Asp Asp Thr
 225 230 235 240
 Gly Leu Pro Met Leu Val Val Arg Ala Pro Phe Asn Gln Thr Trp Gln
 245 250 255
 Arg Leu Pro Ala Thr Leu Glu Lys Val Gly Met Lys Val Thr Asp Ser
 260 265 270
 Thr Arg Ser Thr Gly Ser Ile Thr Ala Thr Tyr Lys Pro Leu Ser Asp
 275 280 285
 Ser Ala Trp Gln Glu Leu Gly Ala Ser Asp Pro Gln Leu Pro Ser Gly
 290 295 300
 Asp Tyr Lys Ile Gln Val Gly Asp Leu Asp Asn Arg Ser Ser Leu Gln
 305 310 315 320
 Phe Ile Asp Pro Lys Gly His Thr Leu Thr Gln Ala Gln Asn Asp Ala
 325 330 335
 Leu Val Ala Ala Phe Gln Ala Ala Phe Ser Lys
 340 345

<210> 10079

<211> 656

<212> PRT

<213> Enterobacter cloacae

<400> 10079

Tyr Leu Arg Gln Ser Tyr Val Met Leu Gly Phe Glu Gln Leu Val Asn
 1 5 10 15
 Gln Leu Gln Arg Thr Gly His Arg Arg Leu Val Val Leu Ser Gly Asp
 20 25 30
 Glu Ala Trp Thr Leu Ser Gln Val Thr His Leu Arg Asp Thr Leu Pro
 35 40 45
 Gly Asp Trp Leu Trp Leu Glu Glu Asn Pro Ser Lys Ala Ile Ser Gly
 50 55 60
 Leu Leu Gly Arg Glu Tyr Leu His Ala Val Phe Asp Ala Arg Asp Gly
 65 70 75 80
 Phe Asp Val Ser Ala Phe Ala Ala Leu Ser Gly Thr Leu Arg Ala Gly
 85 90 95
 Ser Leu Leu Val Leu Leu Val Pro Pro Phe Ser Val Trp Ala Asp Arg
 100 105 110
 Pro Asp Arg Asp Ser Leu Arg Trp Ser Asp Ser Ala Glu Pro Ile Ala
 115 120 125
 Thr Pro His Phe Val His His Phe Cys Arg Met Leu Ala Ala Asp Ser
 130 135 140
 Asp Ala Ile Val Trp His Gln His Arg Pro Leu Cys Leu Pro Val Ala
 145 150 155 160
 Pro Asp Leu Pro Ala Trp Gln Pro Ala Ser Gly Glu Pro Gln Arg Glu
 165 170 175
 Gln Ala Glu Ile Leu Asp Ala Leu Leu Thr Met Ser Ala Gly Val Ala
 180 185 190
 Ala Val Thr Ala Pro Arg Gly Arg Gly Lys Ser Ala Leu Ala Gly Met
 195 200 205
 Leu Leu Ser Gly Ile Gln Gly Ser Ala Val Val Thr Ala Pro Ala Lys
 210 215 220
 Gly Ala Thr Asp Val Ile Ala Arg Phe Ala Gly Glu Arg Phe His Phe
 225 230 235 240
 Met Ala Pro Asp Ala Leu Leu Ala Ser Thr Glu Ala Asp Trp Leu
 245 250 255

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Ile Val Asp Glu Ala Ala Ala Ile Pro Gly Pro Leu Leu Glu Lys Leu
260 265 270
Ala Ser Arg Phe Pro Arg Val Leu Leu Thr Thr Thr Val Gln Gly Tyr
275 280 285
Glu Gly Thr Gly Arg Gly Phe Leu Leu Lys Phe Cys Ala Arg Phe Ser
290 295 300
Gly Leu Arg Arg Tyr Thr Leu Ser Thr Pro Val Arg Trp Ala Thr Gly
305 310 315 320
Cys Pro Leu Glu Arg Ile Val Ala Asn Ala Leu Leu Phe Asp Asp Ala
325 330 335
Leu Ile Asp Arg Lys Pro Ala Gly Glu Val Arg Leu Thr Ser Leu Glu
340 345 350
Pro Gly Ile Trp Glu Ser Asp Pro Ala Arg Gly Ala Gly Val Tyr Glu
355 360 365
Leu Leu Cys Ala Ala His Tyr Arg Thr Ser Pro Leu Asp Leu Arg Arg
370 375 380
Met Met Asp Ala Pro Gly Gln His Phe Ala Val Ala Gln Ala Gly Ala
385 390 395 400
Glu Ile Ala Gly Ala Leu Trp Leu Val Glu Glu Gly Gly Leu Pro Pro
405 410 415
Glu Leu Ser Arg Ala Val Trp Ala Gly Phe Arg Arg Pro Arg Gly Asn
420 425 430
Leu Val Ala Gln Ser Leu Ala Ala His Gly Gly Ser Pro Leu Ala Ala
435 440 445
Thr Leu Lys Gly Arg Arg Val Ser Arg Ile Ala Val His Pro His Arg
450 455 460
Gln Arg Glu Gly Ile Gly Gln Arg Leu Ile Arg Ser Ala Ser Gly Glu
465 470 475 480
Asp Tyr Leu Ser Val Ser Phe Gly Tyr Thr Asp Glu Leu Trp Arg Phe
485 490 495
Trp Arg Gln Cys Gly Phe Val Leu Val Arg Met Gly Ser His Arg Glu
500 505 510
Ala Ser Ser Gly Cys Tyr Thr Ala Met Ala Leu Leu Pro Leu Ser Glu
515 520 525
Ala Gly His Gln Leu Cys Glu Gln Ala His Gln Arg Leu Cys Arg Asp
530 535 540
Met Arg Val Leu Ser Ala Trp Asn Gly Glu Lys Ile Pro Val Thr Asp
545 550 555 560
Ala Trp Glu Ala Thr Leu Asn Ser Asp Asp Trp Leu Glu Leu Ala Gly
565 570 575
Phe Ala Phe Ala His Arg Ala Phe Ser Thr Ser Val Ala Ala Leu Thr
580 585 590
Arg Leu Val Leu Ala Val Asp Ile Pro Leu Pro Ala Leu Arg Gly Lys
595 600 605
Met Glu Gly Asn Thr His Asp Phe Gly Arg Lys Ala Leu Leu Ala Lys
610 615 620
Leu Arg Glu Glu Thr Ala His Ala Leu Glu Arg Leu Asp Tyr Ser Arg
625 630 635 640
Ser Gln Gln Leu Lys Ala Asp Ile Leu Gln Trp Gln Phe Phe Gln
645 650 655

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<210> 10080

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 10080

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Ile Tyr Pro Ile Asn Pro Ile Glu Pro Ala Arg Pro Gly His Glu Asp
1 5 10 15
Thr Pro Gln Ile Asp Leu Phe Val Ser Gly Ala Val Pro Phe Met Arg
20 25 30

```

Tyr Cys Val Phe Leu Leu Phe Phe Ile Cys Val Leu Pro Ala Pro Arg
 35 40 45
 Val Trp Ala Ala Pro Ala Gln Gln Ser Phe Ser Asp Trp Gln Val Thr
 50 55 60
 Cys Asn Asn Gln Asn Phe Cys Val Ala Arg Asn Thr Gly Glu His Arg
 65 70 75 80
 Gly Leu Val Met Ser Leu Ser Arg Ser Ala Gly Ala Lys Thr Asp Ala
 85 90 95
 Ser Leu Arg Ile Asp Leu Gly Gly Leu Ser Ala Pro Pro Val Lys Glu
 100 105 110
 Pro Asp Ile Ala Pro Arg Leu Leu Leu Asp Asn Val Pro Leu Lys Leu
 115 120 125
 Thr Ser Gln His Trp Gln Leu Thr Pro Trp His Leu Lys Thr Asp Asp
 130 135 140
 Thr Gly Thr Ile Thr Thr Phe Leu Lys Thr Ile Gln Glu Gly Gln Ala
 145 150 155 160
 Leu Thr Leu Arg Gly Gly Lys Gln Thr Ile Ser Leu Ala Gly Leu Lys
 165 170 175
 Ala Ala Leu Leu Phe Ile Asp Ala Gln Gln Lys Arg Val Gly Ser Glu
 180 185 190
 Thr Ala Trp Ile Lys Lys Gly Asp Ser Pro Pro Leu Ser Val Pro Pro
 195 200 205
 Ala Pro Ala Leu Lys Lys Val Ala Val Val Asn Pro Thr Pro Thr Pro
 210 215 220
 Leu Thr His Asn Glu Leu Asn Asp Leu Leu Asp Tyr Gly Asn Trp Arg
 225 230 235 240
 Met Asn His Ser Gln Cys Ser Leu Asp Pro Asn Arg Arg Glu Val Arg
 245 250 255
 Val Thr Ala Leu Thr Asp Asp Lys Ala Leu Met Ile Ile Ser Cys Glu
 260 265 270
 Ala Gly Ala Tyr Asn Thr Val Asp Leu Ala Trp Leu Val Ser Arg Lys
 275 280 285
 Lys Pro Phe Ala Ala Arg Ser Val Arg Leu Arg Leu Pro Phe Thr Pro
 290 295 300
 Ser Ser Gln Ser Ser Asp Met Glu Leu Met Asn Ala Ser Phe Asp Glu
 305 310 315 320
 Lys Lys Arg Glu Leu Thr Thr Leu Ala Leu Gly Arg Gly Ile Gly Asp
 325 330 335
 Cys Gly Ile Gln Thr Arg Trp Arg Phe Asn Gly Gln Arg Phe Arg Leu
 340 345 350
 Val Arg Tyr Ala Glu Glu Pro Ser Cys Asp Asn Trp Asn Gly Pro Asp
 355 360 365
 Ala Trp Pro Thr Leu Trp Ile Thr Arg
 370 375

<210> 10081

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 10081

His Ser Ala Lys Ser Leu Trp Ser Thr Cys Gly Arg Ser Leu Met Ala
 1 5 10 15
 Glu Val Thr Gln Leu Lys Arg Tyr Asp Ala Pro Arg Ile Asn Trp Gly
 20 25 30
 Lys Trp Phe Leu Ile Gly Thr Gly Val Leu Val Ser Ala Phe Ile Leu
 35 40 45
 Val Val Pro Met Val Tyr Ile Phe Val Gln Ala Phe Ser Lys Gly Ile
 50 55 60
 Met Pro Ala Leu Gln Asn Leu Ala Asp Pro Asp Met Leu His Ala Ile
 65 70 75 80

Trp Leu Thr Val Met Ile Ala Leu Ile Thr Val Pro Val Asn Leu Val
 85 90 95
 Phe Gly Val Leu Leu Ala Trp Leu Val Thr Arg Phe Asn Phe Pro Gly
 100 105 110
 Arg Gln Leu Leu Leu Thr Leu Leu Asp Ile Pro Phe Ala Val Ser Pro
 115 120 125
 Val Val Ala Gly Leu Val Tyr Leu Leu Phe Tyr Gly Ser Asn Gly Pro
 130 135 140
 Leu Gly Gly Trp Leu Asp Glu His Asp Leu Gln Ile Met Phe Ala Trp
 145 150 155 160
 Pro Gly Met Val Leu Val Thr Val Phe Val Thr Cys Pro Phe Val Val
 165 170 175
 Arg Glu Leu Val Pro Val Met Leu Ser Gln Gly Ser His Glu Asp Glu
 180 185 190
 Ala Ala Val Leu Leu Gly Ala Ser Gly Trp Gln Met Phe Arg Arg Val
 195 200 205
 Thr Leu Pro Asn Ile Arg Trp Ala Leu Leu Tyr Gly Val Val Leu Thr
 210 215 220
 Asn Ala Arg Ala Ile Gly Glu Phe Gly Ala Val Ser Val Val Ser Gly
 225 230 235 240
 Ser Ile Arg Gly Glu Thr Leu Ser Leu Pro Leu Gln Ile Glu Leu Leu
 245 250 255
 Glu Gln Asp Tyr Asn Thr Val Gly Ser Phe Thr Ala Ala Leu Leu
 260 265 270
 Thr Leu Met Ala Ile Leu Thr Leu Phe Leu Lys Ser Val Val Gln Trp
 275 280 285
 Arg Leu Glu Asn Gln Glu Lys Arg Gln His Gln Glu Gly Asn His Glu
 290 295 300
 His
 305

<210> 10082

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 10082

Arg Ser Ala Trp Met Val Glu Thr Pro Ala Ala Gly Thr Ile Gly Val
 1 5 10 15
 His Leu Ala Lys Glu Val Asp Phe Phe Ser Ile Gly Thr Asn Asp Leu
 20 25 30
 Thr Gln Tyr Thr Leu Ala Val Asp Gly Gly Asn Asp Met Ile Ser His
 35 40 45
 Leu Tyr Gln Pro Met Ser Pro Ser Val Leu Asn Leu Ile Lys Gln Val
 50 55 60
 Ile Asp Ala Ser His Ala Glu Gly Lys Trp Thr Gly Met Cys Gly Glu
 65 70 75 80
 Leu Ala Gly Asp Glu Arg Ala Thr Leu Leu Leu Gly Met Gly Leu
 85 90 95
 Asp Glu Phe Ser Met Ser Ala Ile Ser Ile Pro Arg Ile Lys Lys Ile
 100 105 110
 Ile Arg Asn Thr Asn Phe Glu Asp Ala Lys Val Leu Ala Glu Gln Ala
 115 120 125
 Leu Ala Gln Pro Thr Thr Asp Glu Leu Met Thr Leu Val Asn Lys Phe
 130 135 140
 Ile Glu Glu Lys Thr Ile Cys
 145 150

<210> 10083

<211> 129

<212> PRT

<213> *Enterobacter cloacae*

<400> 10083

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Leu Asn Arg Leu Ala Val Pro Arg Gln Arg Val Gln Pro Cys Ala Ala
1      5      10      15
Leu Ser Ala Leu Phe Asn Gln Leu Ile Gln His Gly Trp Gly Gly Glu
      20      25      30
Arg Lys His Leu Cys Arg Ala Val Phe Asn Ala Gly Arg Ala Leu Arg
      35      40      45
Pro Phe Gln Ala Glu Val Ala Phe Val Arg Arg Gly Leu Tyr Ala Val
      50      55      60
Val Phe Gln Arg Gly Asp Gln His Val His Arg Ala Lys Arg Thr Gly
      65      70      75      80
His His Ala Gly Phe Thr Ala Asn Ala Phe Leu Leu Ile Asp Leu Tyr
      85      90      95
Ala Val Ala Val Leu Arg Asp Gly Ser Val Arg Ala Ala Leu Arg Ala
      100      105      110
Gly Arg Ile Phe Thr Val Val Ala Gly His Gly Ala Phe Ser Gln Ala
      115      120      125

```

<210> 10084

<211> 197

<212> PRT

<213> *Enterobacter cloacae*

<400> 10084

```

Pro Arg Lys Gly Arg Thr Gly Leu Thr Thr Ser Ser Gln His Tyr Leu
1      5      10      15
Val Ile Thr Ala Leu Gly Ala Asp Arg Pro Gly Ile Val Asn Thr Ile
      20      25      30
Thr Arg His Val Ser Ser Cys Gly Cys Asn Ile Glu Asp Ser Arg Leu
      35      40      45
Ala Met Leu Gly Glu Glu Phe Thr Phe Ile Met Leu Leu Ser Gly Thr
      50      55      60
Trp Asn Ala Ile Thr Leu Ile Glu Ser Thr Leu Pro Leu Lys Gly Ala
      65      70      75      80
Glu Leu Asp Leu Leu Ile Val Met Lys Arg Thr Thr Ala Arg Pro Arg
      85      90      95
Pro Ala Leu Pro Ala Thr Val Trp Val Gln Val Glu Val Pro Asp Ser
      100      105      110
Pro His Leu Ile Glu Arg Phe Thr Ala Leu Phe Asp Ser His Gln Met
      115      120      125
Asn Ile Ala Glu Leu Val Ser Arg Thr Gln Pro Gly Asp Glu Asn Ala
      130      135      140
Ile Pro Thr Leu Phe Ile Gln Ile Thr Ala His Ser Pro Ala Ser Gln
      145      150      155      160
Asp Ala Ser Asn Ile Glu Gln Ala Phe Lys Ala Leu Cys Thr Glu Leu
      165      170      175
His Ala Gln Gly Ser Ile Ser Val Val Asp Tyr Ser Gln His Glu Gln
      180      185      190
Asp Gly Val Glu
      195

```

<210> 10085

<211> 154

<212> PRT

<213> *Enterobacter cloacae*

<400> 10085

Ser Leu Ala Ala Cys Asn Arg Pro Ala Thr Met Arg Glu Ser Thr Ser
 1 5 10 15
 Cys Ala Ala Cys Asn Asn Ala Leu Ser Arg Thr Arg Arg Cys Asn Lys
 20 25 30
 Gly Glu Val Met Thr Asp Ala Val Lys Ile Tyr His Asn Pro Arg Cys
 35 40 45
 Ser Lys Ser Arg Glu Thr Leu Asn Leu Leu Lys Ser Asn Gly Ile Asp
 50 55 60
 Pro Glu Val Val Leu Tyr Leu Glu Thr Pro Pro Asp Ala Gln Thr Ile
 65 70 75 80
 Arg Gln Leu Leu Lys Met Leu Asn Met Gly Ser Ala Arg Asp Leu Met
 85 90 95
 Arg Gln Lys Glu Asp Leu Tyr Lys Ser Leu Asn Leu Asn Asp Thr Ser
 100 105 110
 Leu Thr Glu Asp Arg Leu Ile Gln Ala Met Val Asp Asn Pro Lys Leu
 115 120 125
 Ile Glu Arg Pro Ile Val Val Ala Asn Gly Lys Ala Arg Ile Gly Arg
 130 135 140
 Pro Pro Glu Asp Val Leu Gly Ile Val
 145 150

<210> 10086

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 10086

Met Lys Asn Ile Val Val Leu Ile Ser Gly Asn Gly Ser Asn Leu Gln
 1 5 10 15
 Ala Ile Ile Asp Ala Cys Lys Gln Lys Lys Ile Asn Gly Thr Ile Arg
 20 25 30
 Ala Val Phe Ser Asn Lys Ala Asp Ala Phe Gly Leu Glu Arg Ala Arg
 35 40 45
 Glu Ala Asn Ile Pro Ala His Ala Leu Glu Ala Ser Gln Phe Ala Gly
 50 55 60
 Arg Glu Ala Phe Asp Arg Glu Leu Val Gln Glu Ile Asp Ala Tyr Ala
 65 70 75 80
 Pro Asp Val Val Val Leu Ala Gly Tyr Met Arg Ile Leu Ser Pro Ala
 85 90 95
 Phe Val Ala His Tyr Ala Gly Arg Leu Leu Asn Ile His Pro Ser Leu
 100 105 110
 Leu Pro Lys Tyr Pro Gly Leu His Thr His Arg Gln Val Leu Glu Asn
 115 120 125
 Gly Asp Glu Glu His Gly Thr Ser Val His Phe Val Thr Asp Glu Leu
 130 135 140
 Asp Gly Gly Pro Val Ile Leu Gln Ala Lys Val Pro Val Phe Asp Gly
 145 150 155 160
 Asp Asn Glu Asp Asp Val Thr Glu Arg Val Gln Ala Gln Glu His Ala
 165 170 175
 Ile Tyr Pro Leu Val Val Ser Trp Phe Val Asp Gly Arg Leu Glu Met
 180 185 190
 Arg Asp Gly Ala Ala Trp Leu Asp Gly Val Lys Leu Pro Pro Gln Gly
 195 200 205
 Tyr Ala Ala Glu Gly Val Val Cys Leu Asn Cys Pro Ala Ala Leu Arg
 210 215 220
 Leu His Gly Pro Thr Val Pro
 225 230

<210> 10087

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 10087

```

Leu Phe Thr Ser Ala Val Pro Lys Arg Thr Arg Phe Thr Ala Thr Gln
1      5      10      15
Asp Arg Lys Met Leu Asp Tyr Arg Phe Pro Thr Ala Leu Gln Met Val
      20      25      30
Leu Ser Val Ala Met Ala Glu Gln Ser Gly Glu Arg Ser Thr Ser Ala
      35      40      45
Ile Leu Ala Tyr Gly Leu Glu Ala Asn Pro Ser Phe Ile Arg Lys Leu
      50      55      60
Met Val Pro Leu Ala Arg Asp Gly Ile Ile Val Ser Thr Leu Gly Arg
      65      70      75      80
Asn Gly Ser Ile His Leu Gly Arg Pro Ala Glu Glu Ile Thr Leu Arg
      85      90      95
Asp Ile Tyr Leu Ser Val Thr Glu Asp Lys Lys Leu Trp Ala Ser Arg
      100      105      110
Pro Asp Val Pro Ala Arg Cys Val Val Ser Ala Asn Ala Cys Trp Tyr
      115      120      125
Phe Lys Ser Ile Ala Asp Glu Ala Glu Gln Ala Ser Leu Ala Val Leu
      130      135      140
Ala Arg His Thr Val Ala Ser Ala Leu Glu Glu Val Lys Lys Ala Asp
      145      150      155      160
Thr Ser Gly Cys Asp Pro Val Pro Glu Leu Cys Thr Gln His Lys Lys
      165      170      175
Ala Pro

```

<210> 10088

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 10088

```

Glu Lys Ile Met Gly Leu Phe Asp Lys Leu Lys Ser Leu Val Ser Asp
1      5      10      15
Asp Lys Lys Asp Ser Gly Thr Ile Glu Ile Val Ala Pro Leu Ser Gly
      20      25      30
Glu Ile Val Asn Ile Glu Asp Val Pro Asp Val Val Phe Ala Glu Lys
      35      40      45
Ile Val Gly Asp Gly Ile Ala Ile Lys Pro Thr Gly Asn Lys Met Val
      50      55      60
Ala Pro Val Asp Gly Thr Ile Gly Lys Ile Phe Glu Thr Asn His Ala
      65      70      75      80
Phe Ser Ile Glu Ser Asp Ser Gly Ile Glu Leu Phe Val His Phe Gly
      85      90      95
Ile Asp Thr Val Glu Leu Lys Gly Glu Gly Phe Lys Arg Ile Ala Glu
      100      105      110
Glu Gly Gln Arg Val Lys Val Gly Asp Pro Val Ile Glu Phe Asp Leu
      115      120      125
Pro Leu Leu Glu Glu Lys Ala Lys Ser Thr Leu Thr Pro Val Val Ile
      130      135      140
Ser Asn Met Asp Glu Ile Lys Glu Leu Ile Lys Leu Ser Gly Ser Val
      145      150      155      160
Thr Val Gly Glu Thr Pro Val Ile Arg Ile Lys Lys
      165      170

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<210> 10089

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 10089

Ser Lys Ser Ala Leu Gln Glu Thr Leu Met Lys Pro Asn Ala Gln Leu
 1 5 10 15
 Val Lys Thr Phe Leu Met Gln Leu Gln Asp Ala Ile Cys Gln Lys Leu
 20 25 30
 Ser Ala Ala Asp Gly Gly Glu Phe Gln Glu Asp Ala Trp Gln Arg Glu
 35 40 45
 Ala Gly Gly Gly Gly Arg Ser Arg Val Leu Arg Asn Gly Gly Ile Phe
 50 55 60
 Glu Gln Ala Gly Val Asn Phe Ser His Val His Gly Asp Ala Met Pro
 65 70 75 80
 Ala Ser Ala Thr Ala His Arg Pro Glu Leu Ala Gly Arg Ser Phe Glu
 85 90 95
 Ala Met Gly Val Ser Leu Val Ala His Pro His Asn Pro Phe Val Pro
 100 105 110
 Thr Ser His Ala Asn Val Arg Phe Phe Ile Ala Glu Lys Pro Gly Ala
 115 120 125
 Asp Pro Val Trp Trp Phe Gly Gly Phe Asp Leu Thr Pro Tyr Tyr
 130 135 140
 Gly Phe Glu Glu Asp Ala Val His Trp His Thr Thr Ala Arg Asp Leu
 145 150 155 160
 Cys Leu Pro Phe Gly Glu Asp Val Tyr Pro Lys Tyr Lys Lys Trp Cys
 165 170 175
 Asp Asp Tyr Phe Tyr Leu Lys His Arg Asp Glu Gln Arg Gly Ile Gly
 180 185 190
 Gly Leu Phe Phe Asp Asp Leu Asn Thr Pro Asp Phe Asp Thr Ala Phe
 195 200 205
 Ser Phe Met Arg Ala Val Gly Glu Gly Phe Thr Asp Ala Tyr Leu Pro
 210 215 220
 Ile Val Glu Arg Arg Lys Asn Thr Asp Tyr Gly Val Arg Glu Arg Glu
 225 230 235 240
 Phe Gln Leu Tyr Arg Arg Gly Arg Tyr Val Glu Phe Asn Leu Val Trp
 245 250 255
 Asp Arg Gly Thr Leu Phe Gly Leu Gln Thr Gly Gly Arg Thr Glu Ser
 260 265 270
 Ile Leu Met Ser Met Pro Pro Leu Val Arg Trp Glu Tyr Ser Tyr Ala
 275 280 285
 Pro Lys Glu Gly Ser Pro Glu Ala Ala Leu Ser Glu Phe Ile Arg Val
 290 295 300
 Arg Asp Trp Val
 305

<210> 10090

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 10090

Leu Phe Tyr Phe Gln Gly Val Ile Met Asn Gln Leu Asp Gly Ile Lys
 1 5 10 15
 Gln Phe Thr Thr Val Val Ala Asp Ser Gly Asp Ile Glu Ser Ile Arg
 20 25 30
 His Tyr Gln Pro Glu Asp Ala Thr Thr Asn Pro Ser Leu Leu Lys
 35 40 45
 Ala Ala Gly Leu Ala His Phe Ser His Leu Ile Asp Asp Ala Leu Ala
 50 55 60
 Tyr Gly Lys Gln Arg Gly Gln Thr Gln Glu Gln Gln Val Ala Glu Ala
 65 70 75 80
 Ser Asp Lys Leu Ala Val Asn Ile Gly Ala Glu Ile Leu Lys Ser Ile
 85 90 95

```

Pro Gly Arg Val Ser Thr Glu Val Asp Ala Arg Leu Ser Phe Asp Gln
      100      105
Glu Lys Ser Ile Asn Lys Ala Arg Arg Leu Val Glu Leu Tyr Gln Glu
      115      120      125
Gln Gly Ile Asp Lys Ser Arg Ile Leu Ile Lys Leu Ala Ser Thr Trp
      130      135      140
Glu Gly Ile Arg Ala Ala Glu Val Leu Glu Lys Asp Gly Ile His Cys
      145      150      155      160
Asn Leu Thr Leu Leu Phe Ser Phe Ala Gln Ala Arg Ala Cys Ala Glu
      165      170      175
Ala Gly Val Phe Leu Ile Ser Pro Phe Val Gly Arg Ile Tyr Asp Trp
      180      185      190
Tyr Gln Ala Lys Gln Pro Met Asp Pro Tyr Val Val Glu Glu Asp Pro
      195      200      205
Gly Val Lys Ser Val Arg Asn Ile Tyr Asp Tyr Tyr Lys Gln His Arg
      210      215      220
Tyr Glu Thr Ile Val Met Gly Ala Ser Phe Arg Arg Thr Glu Gln Ile
      225      230      235      240
Leu Ala Leu Ala Gly Cys Asp Arg Leu Thr Ile Ser Pro Glu Leu Leu
      245      250      255
Lys Lys Leu Gln Glu Ser Glu Glu Thr Val Ile Arg Lys Leu Val Pro
      260      265      270
Thr Ser Thr Val Leu Pro Lys Pro Lys Pro Met Thr Glu Ala Glu Phe
      275      280      285
Arg Trp Glu His Asn Gln Asp Pro Met Ala Val Glu Lys Leu Ala Asp
      290      295      300
Gly Ile Arg Gln Phe Ala Val Asp Gln Arg Lys Leu Glu Asp Leu Leu
      305      310      315      320
Ala Ala Lys Leu
      325

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<210> 10091

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10091

```

Ile His Lys Arg Thr Lys Gly Phe Thr Met Val Val Met Tyr Gly Ile
1      5      10      15
Lys Asn Cys Asp Thr Ile Lys Lys Ala Arg Arg Trp Leu Glu Ala His
      20      25      30
Asn Ile Asp Tyr Arg Phe His Asp Tyr Arg Ala Asp Gly Leu Asp Pro
      35      40      45
Ala Phe Leu His Ser Ala Ile Asn Glu Leu Gly Trp Glu Ala Leu Leu
      50      55      60
Asn Thr Arg Gly Thr Thr Trp Arg Lys Leu Asp Glu Ser Leu Arg Ala
      65      70      75      80
Thr Ile Asn Asp Ala Asp Ser Ala Ala Lys Leu Met Leu Glu Met Pro
      85      90      95
Ala Ile Ile Lys Arg Pro Leu Leu Cys Lys Pro Gly Gln Pro Met Leu
      100      105      110
Leu Gly Phe Ser Glu Thr Leu Tyr Ser Asp Leu Phe Val Glu Val
      115      120      125

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<210> 10092

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 10092

```

Ser Met Ser Cys Pro Val Ile Glu Leu Thr Gln Gln Leu Ile Arg Arg

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1          5          10          15
Pro Ser Leu Ser Pro Asp Asp Ala Gly Cys Gln Ala Leu Met Ile Glu
20          25          30
Arg Leu Arg Ala Ile Gly Phe Thr Val Glu His Met Asp Phe Gly Asp
35          40          45
Thr Gln Asn Phe Trp Ala Trp Arg Gly Gln Gly Glu Thr Leu Ala Phe
50          55          60
Ala Gly His Thr Asp Val Val Pro Ala Gly Asp Ala Asp Arg Trp Ile
65          70          75          80
Asn Pro Pro Phe Glu Pro Thr Ile Arg Asp Gly Met Leu Phe Gly Arg
85          90          95
Gly Ala Ala Asp Met Lys Gly Ser Leu Ala Ala Met Val Val Ala Ala
100          105          110
Glu Arg Phe Val Ala Gln His Pro Asn His Lys Asn Arg Leu Ala Phe
115          120          125
Leu Ile Thr Ser Asp Glu Glu Ala Ser Ala His Asn Gly Thr Val Lys
130          135          140
Val Val Glu Ala Leu Met Ala Arg Asn Glu Arg Leu Asp Tyr Cys Leu
145          150          155          160
Val Gly Glu Pro Ser Ser Thr Glu Val Val Gly Asp Val Val Lys Asn
165          170          175
Gly Arg Arg Gly Ser Leu Thr Cys Asn Leu Thr Ile His Gly Val Gln
180          185          190
Gly His Val Ala Tyr Pro His Leu Ala Asp Asn Pro Val His Arg Ala
195          200          205
Ala Pro Met Leu Asn Glu Leu Val Ser Ile Glu Trp Asp Lys Gly Asn
210          215          220
Glu Phe Phe Pro Pro Thr Ser Met Gln Ile Ala Asn Ile Lys Ala Gly
225          230          235          240
Thr Gly Ser Asn Asn Val Ile Pro Gly Asp Leu Phe Val Gln Phe Asn
245          250          255
Phe Arg Phe Ser Thr Glu Leu Thr Asp Glu Met Ile Lys Ala Arg Val
260          265          270
Ile Ala Leu Leu Glu Lys Tyr Gln Leu Arg Tyr Thr Leu Asp Trp Trp
275          280          285
Leu Ser Gly Gln Pro Phe Leu Thr Gln Arg Gly Lys Leu Val Asp Ala
290          295          300
Val Val Asn Ala Ile Ala His Tyr Asn Glu Ile Lys Pro Gln Leu Leu
305          310          315          320
Thr Thr Gly Gly Thr Ser Asp Gly Arg Phe Ile Ala Arg Met Gly Ala
325          330          335
Gln Val Val Glu Leu Gly Pro Val Asn Ala Thr Ile His Lys Ile Asn
340          345          350
Glu Cys Val Asn Ala Ala Asp Leu Gln Leu Leu Ala Arg Met Tyr Gln
355          360          365
Arg Ile Met Glu Gln Leu Val Ala
370          375

```

<210> 10093

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10093

```

Arg Met Asp Trp Leu Ser Lys Tyr Trp Trp Ile Leu Val Leu Val Phe
1          5          10          15
Leu Val Gly Val Leu Leu Asn Val Ile Lys Asp Leu Lys Arg Val Asp
20          25          30
His Lys Lys Phe Leu Ala Asn Lys Pro Asp Leu Pro Pro His Arg Asp
35          40          45
Phe Asn Asp Lys Trp Asp Asp Glu Asp Asp Trp Pro Lys Lys Asp Gln

```

50
Lys Lys
65

55

60

<210> 10094
<211> 476
<212> PRT
<213> Enterobacter cloacae

<400> 10094

Gly Val Met Met Ile Thr Tyr Gln Phe Ile Asn Ala Leu Ser Asp Ala
1 5 10 15
Lys Pro Gln Ser His Leu Ile Ala Arg Ala Asp Ser Ser Leu Leu Pro
20 25 30
Asp Ser Ala Leu Ile Ala Glu Met Arg Gln Gln Ser Thr Val Ala Asp
35 40 45
Ala Arg Phe Gly Cys Ala Pro Phe Ala Arg Ile Thr Leu Leu Pro Asp
50 55 60
Ala Leu Trp His Asp Ala Leu Thr Glu Gly Leu Ile Thr Ala Leu Arg
65 70 75 80
Pro Leu Leu Thr Ala Pro Ala Ser Ala Glu Leu Val Leu Asp Val Thr
85 90 95
Asp Ile Asp Asp Val Val Leu Ala Gln Val Leu Arg Phe Leu Phe Asn
100 105 110
Gln Ala His Met Leu Ser Asp Leu Lys Leu Lys Lys Thr Asp Glu Ala
115 120 125
Leu Arg Leu Thr Cys Ile Thr Ala Leu Cys Leu Pro Glu Gln Gln Ala
130 135 140
Lys Leu Glu Thr Thr Phe Arg Gln Gln Gln Ala Ile Ala Leu Gly Met
145 150 155 160
Val Ala Ala Arg Arg Leu Ala Asp Met Pro Ser Asp Arg Cys Thr Pro
165 170 175
Gln Phe Val Val Glu Glu Ala Gln Lys Leu Cys Ala Ala Ser Pro Ala
180 185 190
Leu Arg Cys Glu Val Leu Asp Glu Lys Gln Ile Val Glu Gln Gly Leu
195 200 205
Gly Leu Leu His Ala Val Gly Lys Gly Ala Thr Cys Pro Pro Arg Leu
210 215 220
Leu Ala Ile His Tyr Asn Gly Val Ser Asp Gly Pro Val Arg Cys Tyr
225 230 235 240
Val Gly Lys Gly Ile Thr Phe Asp Thr Gly Gly Leu Trp Leu Lys Glu
245 250 255
Gly Ala Gly Met Tyr Thr Met Lys Tyr Asp Met Cys Gly Ala Ala Asn
260 265 270
Val Leu Gly Leu Met Leu Thr Val Ala Glu Gln Lys Leu Pro Val Arg
275 280 285
Ile Met Gly Val Leu Ala Leu Ala Glu Asn Ala Ile Gly Pro Asp Ala
290 295 300
Met Gln Pro Gly Thr Val Ala Thr Ala Cys Asn Gly Ile Thr Val Glu
305 310 315 320
Ile Asn Asn Thr Asp Ala Glu Gly Arg Leu Val Leu Ala Asp Ala Ile
325 330 335
Ala Trp Ala Ser Gln Arg His Pro Gln Ala His Tyr Ile Ile Asp Met
340 345 350
Ala Thr Leu Thr Gly Ala Val Val Lys Ala Leu Gly Tyr Glu Leu Ser
355 360 365
Gly Leu Met Thr Gln Asp Glu Pro Leu Arg Gln Ala Leu Thr Leu Ala
370 375 380
Gly Lys Arg Ser Gly Asp Glu Val Trp Ser Leu Pro Leu Asp Ala Arg
385 390 395 400
Leu Arg Lys Gln Thr Asp Ser Ala Ile Ala Asp Leu Cys Asn Thr Pro

405 410 415
 Thr Asn Asn Ala Ala Ile Ser Ala Ser Ala Ala Trp Leu Leu His His
 420 425 430
 Phe Cys Pro Pro Thr Ile Pro Trp Ala His Leu Asp Ile Ser Gly Thr
 435 440 445
 Ala Leu Trp Arg Glu Asn Gly Arg Ser Val Ala Ser Gly Arg Pro Ile
 450 455 460
 Pro Leu Leu Val Glu His Leu Leu Gly Asp Leu
 465 470 475

<210> 10095

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 10095

Ala Val Thr Asn Lys Thr Ser Leu Ser Tyr Lys Asp Ala Gly Val Asp
 1 5 10 15
 Ile Asp Ala Gly Asn Ala Leu Val Asp Arg Ile Lys Gly Val Val Lys
 20 25 30
 Lys Thr Arg Arg Pro Glu Val Met Gly Gly Leu Gly Gly Phe Gly Ala
 35 40 45
 Leu Cys Ala Leu Pro Gln Lys Tyr Arg Glu Pro Val Leu Val Ser Gly
 50 55 60
 Thr Asp Gly Val Gly Thr Lys Leu Arg Leu Ala Met Asp Leu Lys Arg
 65 70 75 80
 His Asp Thr Ile Gly Ile Asp Leu Val Ala Met Cys Val Asn Asp Leu
 85 90 95
 Val Val Gln Gly Ala Glu Pro Leu Phe Phe Leu Asp Tyr Tyr Ala Thr
 100 105 110
 Gly Lys Leu Asp Val Asp Thr Ala Ala Ser Val Ile Asn Gly Ile Ala
 115 120 125
 Glu Gly Cys Leu Gln Ser Gly Cys Ala Leu Val Gly Gly Glu Thr Ala
 130 135 140
 Glu Met Pro Gly Met Tyr His Gly Glu Asp Tyr Asp Val Ala Gly Phe
 145 150 155 160
 Cys Val Gly Val Val Glu Lys Ser Glu Ile Ile Asp Gly Ser Lys Val
 165 170 175
 Ala Asp Gly Asp Val Leu Val Ala Leu Ala Ser Ser Gly Pro His Ser
 180 185 190
 Asn Gly Tyr Ser Leu Val Arg Lys Ile Leu Glu Val Ser Gly Cys Asp
 195 200 205
 Pro Leu Thr Thr Glu Leu Asp Gly Lys Pro Leu Ala Asp His Leu Leu
 210 215 220
 Ala Pro Thr Arg Ile Tyr Val Lys Asn Val Leu Glu Leu Ile Glu Asn
 225 230 235 240
 Val Asp Val His Ala Ile Ala His Leu Thr Gly Gly Phe Trp Glu
 245 250 255
 Asn Ile Pro Arg Val Leu Pro Asp Asn Thr Gln Ala Val Ile Asp Ala
 260 265 270
 Ser Ser Trp Gln Trp Pro Ser Val Phe Asn Trp Leu Gln Thr Ala Gly
 275 280 285
 Asn Val Ser Glu His Glu Met Tyr Arg Thr Phe Asn Cys Gly Val Gly
 290 295 300
 Met Val Ile Ala Leu Pro Ala Ser Glu Ala Asp Lys Ala Ile Lys Leu
 305 310 315 320
 Leu Thr Glu Lys Gly Glu Asn Ala Trp Lys Ile Gly Thr Ile Lys Ala
 325 330 335
 Ser Asp Ser Glu Gln Arg Val Val Ile Glu
 340 345

<210> 10096

<211> 689

<212> PRT

<213> Enterobacter cloacae

<400> 10096

Ala Val Met Gly Gln Glu Lys Leu Tyr Ile Glu Lys Glu Leu Ser Trp
1 5 10 15
Leu Ala Phe Asn Glu Arg Val Leu Gln Glu Ala Ala Asp Lys Thr Asn
20 25 30
Pro Leu Ile Glu Arg Met Arg Phe Leu Gly Ile Tyr Ser Asn Asn Leu
35 40 45
Asp Glu Phe Tyr Lys Val Arg Phe Ala Glu Leu Lys Arg Arg Ile Ile
50 55 60
Ile Ser Glu Glu Gln Gly Leu Asn Ser His Ser Arg His Leu Leu Gly
65 70 75 80
Lys Ile Gln Ser Arg Val Met Lys Ala Asp Gln Glu Phe Asp Gly Leu
85 90 95
Tyr Asn Glu Leu Leu Leu Glu Met Ala Arg Asn Gln Ile Phe Leu Ile
100 105 110
Asn Glu Arg Gln Leu Ser Ala Asn Gln Gln Asn Trp Leu Arg His Tyr
115 120 125
Phe Lys His Tyr Leu Arg Gln His Ile Thr Pro Ile Leu Ile Asn Arg
130 135 140
Glu Thr Asp Leu Val Gln Phe Leu Lys Asp Asp Tyr Thr Tyr Leu Ala
145 150 155 160
Val Glu Ile Ile Arg Gly Glu Thr Ile Asn Tyr Ala Leu Leu Glu Ile
165 170 175
Pro Ser Asp Lys Val Pro Arg Phe Val Asn Leu Pro Pro Glu Thr Pro
180 185 190
Arg Arg Arg Lys Pro Met Ile Leu Leu Asp Asn Ile Leu Arg Tyr Cys
195 200 205
Leu Asp Asp Ile Phe Lys Gly Phe Phe Asp Tyr Asp Ala Leu Asn Ala
210 215 220
Tyr Ser Met Lys Met Thr Arg Asp Ala Glu Tyr Asp Leu Val His Glu
225 230 235 240
Met Glu Ala Ser Leu Met Glu Leu Met Ser Ser Ser Leu Lys Gln Arg
245 250 255
Leu Thr Ala Glu Pro Val Arg Phe Val Tyr Gln Arg Asp Met Pro Asp
260 265 270
Ala Met Val Glu Met Leu Arg Asp Lys Leu Thr Ile Ser Arg Tyr Asp
275 280 285
Ser Ile Ile Pro Gly Gly Arg Tyr His Asn Phe Lys Asp Phe Ile Gly
290 295 300
Phe Pro Asn Val Gly Lys Ala Asn Leu Val Asn Lys Pro Leu Pro Arg
305 310 315 320
Leu Arg His Ile Trp Phe Asp Lys Phe Arg Asn Gly Phe Asp Ala Ile
325 330 335
Arg Glu Arg Asp Val Leu Leu Tyr Tyr Pro Tyr His Thr Phe Glu His
340 345 350
Val Leu Glu Leu Leu Arg Gln Ala Ser Phe Asp Pro Asn Val Leu Ala
355 360 365
Ile Lys Ile Asn Ile Tyr Arg Val Ala Lys Asp Ser Arg Ile Ile Asp
370 375 380
Ala Met Ile His Ala Ala His Asn Gly Lys Lys Val Thr Val Val Val
385 390 395 400
Glu Leu Gln Ala Arg Phe Asp Glu Glu Ala Asn Ile His Trp Ala Arg
405 410 415
Arg Leu Thr Glu Ala Gly Val His Val Ile Phe Ser Ala Pro Gly Leu
420 425 430
Lys Ile His Ala Lys Leu Phe Leu Ile Ser Arg Lys Glu Gly Asp Glu

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      435              440              445
Val Val Arg Tyr Ala His Ile Gly Thr Gly Asn Phe Asn Glu Lys Thr
450              455              460
Ala Arg Ile Tyr Thr Asp Tyr Ser Leu Leu Thr Ala Asp Ala Arg Ile
465              470              475
Thr Asn Glu Val Arg Arg Val Phe Asn Phe Ile Glu Asn Pro Tyr Arg
      485              490              495
Pro Val Ser Phe Asp Tyr Leu Leu Val Ser Pro Gln Asn Ser Arg Arg
      500              505              510
Leu Leu Tyr Asp Met Ile Asp Lys Glu Ile Ala Asn Ala Gln Asn Gly
      515              520              525
Leu Ser Ser Gly Ile Thr Leu Lys Leu Asn Asn Leu Val Asp Lys Gly
      530              535              540
Leu Val Asp Arg Leu Tyr Ala Ala Ser Ser Ser Gly Val Pro Val Asn
545              550              555
Leu Leu Ile Arg Gly Met Cys Ser Leu Ile Pro Glu Leu Glu Gly Ile
      565              570              575
Ser Asp Asn Ile Arg Val Ile Ser Ile Val Asp Arg Tyr Leu Glu His
      580              585              590
Asp Arg Val Tyr Ile Phe Asp Asn Ala Gly Asp Lys Arg Val Tyr Leu
      595              600              605
Ser Ser Ala Asp Trp Met Thr Arg Asn Ile Asp Tyr Arg Ile Glu Val
      610              615              620
Ala Ala Pro Leu Leu Asp Pro Arg Leu Lys Gln Arg Ile Leu Asp Ile
625              630              635
Ile Glu Ile Leu Phe Ser Asp Thr Val Lys Ala Arg Tyr Ile Asp Lys
      645              650              655
Glu Leu Ser Asn Arg Tyr Val Pro Arg Gly Asn Arg Arg Lys Val Arg
      660              665              670
Ser Gln Leu Ala Ile Tyr Asp Tyr Ile Lys Ser Leu Glu Gln Pro Asp
      675              680              685

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<210> 10097

<211> 514

<212> PRT

<213> Enterobacter cloacae

<400> 10097

```

Pro Met Pro Ile Asn Asp Asn Thr Pro Arg Pro Gln Glu Phe Ala Ala
1      5      10      15
Val Asp Leu Gly Ser Asn Ser Phe His Met Val Ile Ala Arg Glu Val
      20      25      30
Asp Gly Ala Met Gln Ile Ile Gly Arg Leu Lys Gln Arg Val His Leu
      35      40      45
Ala Asp Gly Leu Asp Ala Arg Asn Met Leu Ser Glu Glu Ala Met Glu
      50      55      60
Arg Gly Leu Asn Cys Leu Ser Leu Phe Ala Glu Arg Leu Gln Gly Phe
      65      70      75      80
Ser Pro Ser Ser Val Cys Ile Val Gly Thr His Thr Leu Arg Gln Ala
      85      90      95
Leu Asn Ala Pro Glu Phe Leu Lys Arg Ala Glu Lys Val Ile Pro Tyr
      100      105      110
Pro Ile Glu Ile Ile Ser Gly Asn Glu Glu Ala Arg Leu Ile Phe Met
      115      120      125
Gly Val Glu His Thr Gln Pro Glu Lys Gly Arg Lys Leu Val Ile Asp
      130      135      140
Ile Gly Gly Gly Ser Thr Glu Leu Val Ile Gly Glu Asp Phe Glu Pro
      145      150      155      160
Arg Leu Val Glu Ser Arg Arg Met Gly Cys Val Ser Phe Ala Gln Met

```

Tyr Phe Pro Gly Val Ile Thr Arg Glu Asn Phe Gln Arg Ala Arg
 165 170 175
 180 185 190
 Met Ala Ala Val Gln Lys Leu Glu Asn Leu Ala Trp Gln Tyr Arg Ile
 195 200 205
 Gln Gly Trp Asn Val Ala Leu Gly Ala Ser Gly Ser Ile Lys Ala Ala
 210 215 220
 His Glu Val Leu Leu Ala Met Gly Glu Lys Asp Gly Phe Ile Thr Pro
 225 230 235 240
 Glu Arg Leu Val Lys Leu Thr Glu Glu Val Leu Lys His Lys Ser Phe
 245 250 255
 Asp Ala Leu Ser Leu Pro Gly Leu Ser Asp Glu Arg Lys Ala Val Phe
 260 265 270
 Val Pro Gly Leu Ala Ile Leu Cys Gly Val Phe Asp Ala Leu Ala Ile
 275 280 285
 Lys Glu Leu Arg Leu Ser Asp Gly Ala Leu Arg Glu Gly Val Leu Tyr
 290 295 300
 Glu Met Glu Gly Arg Phe Arg His Gln Asp Ile Arg Ser Arg Thr Ala
 305 310 315 320
 Gln Ser Leu Ala Asn Gln Tyr Asn Ile Asp Arg Glu Gln Ala Lys Arg
 325 330 335
 Val Leu Glu Thr Thr Val Gln Met Tyr Glu Gln Trp Glu Glu Gln Asn
 340 345 350
 Pro Lys Leu Ala His Pro Gln Leu Ala Ala Leu Leu Lys Trp Ala Ala
 355 360 365
 Met Leu His Glu Val Gly Leu Asn Ile Asn His Ser Gly Met His Arg
 370 375 380
 His Ser Ala Tyr Ile Leu Gln Asn Ser Asp Leu Pro Gly Phe Asn Gln
 385 390 395 400
 Glu Gln Gln Thr Met Met Ala Thr Leu Val Arg Tyr His Arg Lys Ala
 405 410 415
 Ile Lys Leu Asp Asp Leu Pro Arg Phe Thr Leu Phe Lys Lys Lys Gln
 420 425 430
 Phe Leu Pro Leu Ile Gln Leu Leu Arg Leu Gly Val Leu Leu Asn Asn
 435 440 445
 Gln Arg Gln Ala Thr Thr Thr Pro Pro Thr Leu Lys Leu Lys Thr Asp
 450 455 460
 Asp Tyr His Trp Thr Leu Ser Phe Pro His Asp Trp Phe Ser Gln Asn
 465 470 475 480
 Ala Leu Val Leu Leu Asp Leu Glu Lys Glu Gln Gln Tyr Trp Glu Ala
 485 490 495
 Val Thr Gly Trp Leu Leu Lys Ile Glu Glu Glu Ser Ser Glu Ala Ala
 500 505 510
 Ala

<210> 10098

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10098

Pro Tyr Arg Pro Lys Gly Tyr Thr Gln Glu Lys Lys Val Ser Gln Ala
 1 5 10 15
 Thr Arg Met Arg Lys Arg His Arg Phe Asn Thr Arg Met Thr Arg Ile
 20 25 30
 Ile Leu Leu Ile Ser Phe Leu Phe Phe Gly Arg Phe Val Tyr Ser
 35 40 45
 Ser Ile Gly Ala Trp Tyr His His Gln Asp Lys Ile Gln Ser Gln Gln
 50 55 60
 Ser Gly Leu Val Val Asp Ser Pro Glu Arg

65

70

75

<210> 10099

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 10099

Lys Ile Met Glu Thr Pro Ala Leu Pro Arg Arg Leu Ala Leu Thr Ala
 1 5 10 15
 Gly Cys Asn Gln Leu Ile Asn Trp Gly Ile Ser Phe Tyr Met Pro Gly
 20 25 30
 Thr Phe Ala His Ala Ile Thr Ala Asp Arg Ser Trp Ser Ser Pro Glu
 35 40 45
 Ile Tyr Leu Gly Leu Thr Leu Ala Met Leu Val Met Ala Ile Val Ser
 50 55 60
 Pro Phe Val Ala Pro Leu Leu Ala Arg Phe Gly Gly Gln Arg Val Val
 65 70 75 80
 Met Ser Gly Thr Leu Leu Ile Ala Val Ser Cys Leu Ser Met Ala Phe
 85 90 95
 Thr Pro Thr Leu Ser Gly Trp Tyr Gly Ala Trp Leu Leu Thr Gly Ile
 100 105 110
 Gly Met Arg Leu Ser Leu Tyr Asp Ala Leu Phe Ser Ala Leu Val Asp
 115 120 125
 Leu Tyr Gly Pro Gln Ala Arg Arg Thr Ile Ser Arg Val Thr Leu Ala
 130 135 140
 Gly Gly Leu Ala Ser Ala Val Phe Trp Pro Leu Gly Asp Ala Leu Leu
 145 150 155 160
 Asn Val Met Gly Trp Gln Asp Ala Leu Lys Ile Tyr Ala Leu Phe Gly
 165 170 175
 Leu Leu Ser Ala Leu Leu Leu Arg Arg Phe Pro Arg Gln Arg Phe Thr
 180 185 190
 Val Lys Pro Lys Ala Cys Thr Gln Val Ser Pro His Asp Arg Arg Asn
 195 200 205
 Gly Trp Leu Tyr Ala Thr Phe Ile Ala Leu Ile Thr Phe Val Ser Asn
 210 215 220
 Gly Thr Ser Thr His Leu Pro Glu Phe Ile Ala Ser Phe Gly Leu Pro
 225 230 235 240
 Val Ala Val Gly Met Leu Trp Gly Met Gly Gln Thr Gly Ala Arg Leu
 245 250 255
 Met Glu Val Leu Ala Gly Ala Arg Leu Thr Pro Leu Lys Leu Thr Leu
 260 265 270
 Phe Thr Ala Leu Ala Met Pro Leu Cys Phe Leu Ile Gly Leu Ser Ser
 275 280 285
 Asp Met Leu Ala Trp Cys Ala Ala Gly Phe Val Phe Gly Phe Gly Ala
 290 295 300
 Ile Asn Gly Leu Val Thr Ile Val Lys Ala Thr Leu Pro Leu Glu Leu
 305 310 315 320
 Phe Ser Thr Glu Arg Tyr Ala Ser Arg Thr Gly Leu Leu Leu Ile Pro
 325 330 335
 Gly Gln Leu Met Ala Ala Ala Ser Pro Phe Ala Tyr Ala Trp Leu Asn
 340 345 350
 Lys Ser Leu Gly Ile Thr Gly Gly Met Trp Val Ser Ala Gly Leu Thr
 355 360 365
 Leu Val Ile Ala Gly Phe Ala Val Ala Leu Val Arg Ser Pro Gly Lys
 370 375 380
 Gln Thr Val Ser His Cys Ile Pro Ser Ala Thr Leu Thr Asn Arg Tyr
 385 390 395 400
 Lys Thr Pro Ala Glu Ala Asn Ile Pro Asp Thr
 405 410

<210> 10100
 <211> 469
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 10100
 Tyr Arg Thr Arg Ser Glu Gly Gly Arg Leu Met Arg Asn Phe Trp His
 1 5 10 15
 His Leu Arg Leu Pro Thr Leu Val Arg Arg Met Leu Val Ala Gln Met
 20 25 30
 Leu Leu Leu Thr Leu Leu Trp Cys Leu Phe Leu Thr Phe Ile Leu Leu
 35 40 45
 Glu Asp Leu Arg Ser Pro Pro Ile Leu Thr Gly Ser Glu Thr Tyr Glu
 50 55 60
 Thr Val Phe Ser Leu Val Glu Ser Met Asp Asp Arg Pro Gln Ala Arg
 65 70 75 80
 Asp Ala Val Leu Ala Ala Phe Ser Lys Ala Leu Arg Glu Gly Tyr Gly
 85 90 95
 Gly Gly Glu Tyr Pro Glu Leu Ser Ile Asn Leu Ile Val Arg Lys Asn
 100 105 110
 Asn Glu Ile Ile Phe Ser Ser Asp Gly Ala Pro Thr Gly Val Lys Asn
 115 120 125
 Ser Arg Leu Gly Val Met Gln His Val Gln Ser Glu Asp His Thr Trp
 130 135 140
 Thr Ser Arg Thr Leu Lys Ser Ala His Ser Asp Val Glu Val Thr Leu
 145 150 155 160
 Phe Thr Pro Ala Gly Ser Trp Asn Phe Phe Ile Tyr Leu Asn Ser Arg
 165 170 175
 Gly Tyr Tyr Val Met Pro Leu Met Ile Cys Ile Pro Phe Leu Leu Phe
 180 185 190
 Pro Ala Trp Leu Ser Ile Arg Ile Ala Met Arg Pro Trp Asn Lys Val
 195 200 205
 Val Asp Glu Ile Ser Leu Arg Thr Pro Asp Asp Leu Ser Pro Leu Lys
 210 215 220
 Ala Val Pro Arg His Arg Glu Leu Arg Gln Thr Val Asp Ala Ile Asn
 225 230 235 240
 Asp Phe Leu Ala Arg Val Gln Glu Ser Ala Glu Arg Glu Lys Met Phe
 245 250 255
 Ile Ala Asp Ala Ala His Glu Leu Arg Thr Pro Leu Ala Ala Met Arg
 260 265 270
 Ile Asn Val Glu Ala Leu Gln Ser Trp Val Ile Ser Glu Ser Gln Gln
 275 280 285
 Glu Leu Leu Ala Gly Ile Val Arg Ser Asn Ser Arg Ala Ala Arg Leu
 290 295 300
 Ile Asn Gln Leu Leu Leu Met Met His Ser Glu Ala His Ile Ser Pro
 305 310 315 320
 Val Pro Leu Thr Thr Leu Ile Gln Glu Arg Met Ala Ala Leu Glu Pro
 325 330 335
 Leu Ala Ser Gly Arg Arg Ile Glu Phe Glu Phe Phe Ala Asp Asp Glu
 340 345 350
 Ile His Val Ala Gly Ile Arg Glu Arg Leu Val Ser Leu Ile Asp Asn
 355 360 365
 Leu Ile Glu Asn Ala Val Lys Tyr Ser Pro Glu Gly Arg Ile Glu
 370 375 380
 Val Gln Leu Gln Ser Arg Asp Lys Cys Ala Gln Leu Arg Val Ser Asp
 385 390 395 400
 Ala Gly Pro Gly Ile Pro Ile Glu Leu Arg Glu Arg Val Phe Asp Arg
 405 410 415
 Phe Phe Arg Asp Pro Asn Gln Thr Gln Ser Gly Ser Gly Leu Gly Leu
 420 425 430
 Ala Ile Val Lys Ala Val Thr Gln Gln His Asn Gly Arg Val Asn Leu

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<210> 10101
<211> 107
<212> PRT
<213> Enterobacter cloacae
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<400>	10101
Lys Arg Val Thr Phe Lys Cys Asn Lys Gln Arg Cys Phe Leu Met Arg	
1 5 10 15	
Gly Val Gly Gly Ser Lys Met Asn Thr Gly Ala Phe Ile His Asp Leu	
20 25 30	
Leu Asp Trp Thr Ile Asp Asn Asn Leu Asp Ser Arg Leu Asp Ile Glu Thr	
35 40 45	
Val Ser Arg Arg Ala Gly Tyr Ser Lys Trp His Leu Gln Arg Leu Phe	
50 55 60	
Lys Glu His Thr Gly Ser Pro Leu Ala Glu Tyr Ile Arg Ala Gln Lys	
65 70 75 80	
Leu Gln Lys Ser Val Glu Arg Leu Ala His Ser His Glu Pro Ile Leu	
85 90 95	
Tyr Val Asp Leu Thr Thr Gly Lys Arg Ser Ala	
100 105	

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<210> 10102
<211> 303
<212> PRT
<213> Enterobacter cloacae
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400> 10102																	
His	Gln	Asp	Pro	Asn	Phe	Tyr	Asn	Ser	Gly	Arg	Met	Ser	Thr	Phe	Lys		
1				5					10					15			
Pro	Leu	Lys	Ala	Leu	Thr	Ser	Arg	Arg	Gln	Val	Leu	Lys	Ala	Gly	Leu		
			20					25					30				
Ala	Ala	Leu	Thr	Leu	Thr	Gly	Ile	Ala	Lys	Gln	Ala	Gln	Ala	Lys	Asp		
			35				40					45					
Glu	Ser	Thr	Leu	Lys	Thr	Ser	Asn	Gly	His	Ser	Lys	Pro	Lys	Thr	Lys		
	50					55				60							
Lys	Ala	Gly	Ala	Lys	Arg	Leu	Val	Met	Leu	Asp	Pro	Gly	His	Gly	Gly		
65					70					75				80			
Ile	Asp	Thr	Gly	Ala	Ile	Gly	Arg	Asn	Gly	Ser	Lys	Glu	Lys	His	Val		
				85					90					95			
Val	Leu	Ala	Ile	Ala	Lys	Asn	Val	Arg	Ala	Ile	Leu	Arg	Ser	Asn	Gly		
			100					105					110				
Ile	Asp	Ala	Arg	Leu	Thr	Arg	Thr	Gly	Asp	Thr	Phe	Ile	Pro	Leu	Tyr		
	115					120						125					
Asp	Arg	Val	Glu	Ile	Ala	His	Lys	His	Gly	Ala	Asp	Leu	Phe	Met	Ser		
	130					135					140						
Ile	His	Ala	Asp	Gly	Phe	Thr	Asn	Pro	Ser	Ala	Ala	Gly	Ala	Ser	Val		
145					150					155					160		
Phe	Ala	Leu	Ser	Asn	Arg	Gly	Ala	Ser	Ser	Ala	Met	Ala	Lys	Tyr	Leu		
				165					170					175			
Ser	Ser	Arg	Glu	Asn	Arg	Ala	Asp	Glu	Val	Ala	Gly	Lys	Lys	Ala	Thr		
			180					185					190				
Asp	Lys	Asp	His	Leu	Leu	Gln	Gln	Val	Leu	Phe	Asp	Leu	Val	Gln	Thr		
		195				200						205					
Asp	Thr	Ile	Lys	Asn	Ser	Leu	Thr	Leu	Gly	Ser	His	Ile	Leu	Lys	Arg		
	210					215					220						

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Ile Lys Pro Val His Arg Leu His Ser Lys Ser Thr Glu Gln Ala Ala
225      230      235
Phe Val Val Leu Lys Ser Pro Ser Ile Pro Ser Val Leu Val Glu Thr
      245      250      255
Ser Phe Ile Thr Asn Pro Glu Glu Glu Arg Leu Leu Gly Thr Thr Ala
      260      265      270
Phe Arg Gln Lys Ile Ala Asn Ala Ile Ala Ser Gly Val Ile Ser Tyr
      275      280      285
Phe Asn Trp Phe Asp Asn Gln Lys Ala His Ser Arg Lys Arg
      290      295      300

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<210> 10103

<211> 664

<212> PRT

<213> Enterobacter cloacae

<400> 10103

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Thr Met Ser Arg Lys Glu Leu Ala Asn Ala Ile Arg Ala Leu Ser Met
1      5      10      15
Asp Ala Val Gln Lys Ala Asn Ser Gly His Pro Gly Ala Pro Met Gly
      20      25      30
Met Ala Asp Ile Ala Glu Val Leu Trp Asn Asp Phe Leu Lys His Asn
      35      40      45
Pro Thr Asp Pro Thr Trp Tyr Asp Arg Asp Arg Phe Ile Leu Ser Asn
      50      55      60
Gly His Ala Ser Met Leu Leu Tyr Ser Leu Leu His Leu Ser Gly Tyr
65      70      75      80
Asp Leu Pro Leu Glu Glu Leu Lys Asn Phe Arg Gln Leu His Ser Lys
      85      90      95
Thr Pro Gly His Pro Glu Ile Gly Tyr Thr Pro Gly Val Glu Thr Thr
      100      105      110
Thr Gly Pro Leu Gly Gln Gly Leu Ala Asn Ala Val Gly Leu Ala Ile
      115      120      125
Ala Glu Arg Thr Leu Ala Ala Gln Phe Asn Gln Pro Asp His Glu Ile
      130      135      140
Val Asp His Tyr Thr Tyr Val Phe Met Gly Asp Gly Cys Leu Met Glu
145      150      155      160
Gly Ile Ser His Glu Val Cys Ser Leu Ala Gly Thr Leu Gly Leu Gly
      165      170      175
Lys Leu Ile Gly Phe Tyr Asp His Asn Gly Ile Ser Ile Asp Gly Glu
      180      185      190
Thr Glu Gly Trp Phe Thr Asp Asp Thr Ala Lys Arg Phe Glu Ala Tyr
      195      200      205
His Trp His Val Val His Glu Ile Asp Gly His Asp Pro Glu Ala Val
      210      215      220
Lys Lys Ala Ile Gln Glu Ala Gln Ser Val Lys Asp Lys Pro Ser Leu
225      230      235      240
Ile Ile Cys Arg Thr Thr Ile Gly Phe Gly Ser Pro Asn Lys Ala Gly
      245      250      255
Lys Glu Glu Ala His Gly Ala Ala Leu Gly Glu Glu Glu Val Ala Leu
      260      265      270
Thr Arg Gln Lys Leu Gly Trp Lys His Pro Ala Phe Glu Ile Pro Lys
      275      280      285
Glu Ile Tyr Lys Ala Trp Asp Ala Arg Glu Thr Gly Glu Lys Ala Gln
      290      295      300
Gln Ala Trp Asn Glu Lys Phe Ala Ala Tyr Lys Lys Ala Tyr Pro Asp
305      310      315      320
Leu Ala Ala Glu Phe Thr Arg Arg Met Ser Gly Gly Leu Pro Glu Asp
      325      330      335
Trp Glu Glu Lys Thr Gln Ala Leu Ile Glu Asn Leu Gln Ser Asn Pro
      340      345      350

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Ala Lys Ile Ala Thr Arg Lys Ala Ser Gln Asn Thr Leu Asn Ala Ile
 355 360 365
 Gly Pro Ile Leu Pro Glu Leu Leu Gly Gly Ser Ala Asp Leu Ala Pro
 370 375 380
 Ser Asn Leu Thr Ile Trp Ser Gly Ser Lys Ser Leu Lys Glu Asp Ile
 385 390 395 400
 Ala Gly Asn Tyr Ile His Tyr Gly Val Arg Glu Phe Gly Met Thr Ala
 405 410 415
 Ile Ala Asn Gly Ile Ala His His Gly Gly Phe Val Pro Tyr Thr Ala
 420 425 430
 Thr Phe Leu Met Phe Val Glu Tyr Ala Arg Asn Ala Ala Arg Met Ala
 435 440 445
 Ala Leu Met Lys Ala Arg Gln Ile Met Val Tyr Thr His Asp Ser Ile
 450 455 460
 Gly Leu Gly Glu Asp Gly Pro Thr His Gln Ala Val Glu Gln Leu Ala
 465 470 475 480
 Ser Leu Arg Leu Thr Pro Asn Phe Ser Thr Trp Arg Pro Cys Asp Gln
 485 490 495
 Val Glu Ala Ala Val Gly Trp Lys Leu Ala Val Glu Arg His Asn Gly
 500 505 510
 Pro Thr Ala Leu Ile Leu Ser Arg Gln Asn Leu Ala Gln Ile Glu Arg
 515 520 525
 Thr Pro Glu Gln Val Lys Asn Ile Ala Arg Gly Gly Tyr Ile Leu Lys
 530 535 540
 Asp Ser Gly Gly Lys Pro Asp Val Ile Leu Ile Ala Thr Gly Ser Glu
 545 550 555 560
 Val Glu Ile Thr Val Lys Ala Ala Glu Lys Leu Thr Ala Glu Gly His
 565 570 575
 Ala Val Arg Val Val Ser Leu Pro Ser Thr Asp Ile Phe Asp Ala Gln
 580 585 590
 Asp Glu Ala Tyr Arg Glu Ser Val Leu Pro Ser Asn Val Ala Ala Arg
 595 600 605
 Val Ala Val Glu Ala Gly Ile Ala Asp Tyr Trp Tyr Lys Tyr Val Gly
 610 615 620
 Leu Lys Gly Ala Ile Val Gly Met Lys Gly Tyr Gly Glu Ser Ala Pro
 625 630 635 640
 Ala Asp Lys Leu Phe Pro Tyr Phe Gly Phe Thr Val Glu Asn Val Val
 645 650 655
 Glu Lys Ala Leu Ser Val Leu
 660

<210> 10104

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 10104

Val Thr Val Lys Arg Pro Val Ser Gly Ser Leu Ala Arg Ala Phe Phe
 1 5 10 15
 Ser Met Ile Val Leu Ser Val Leu Ile Ser Ala Ile Ala Leu Val Thr
 20 25 30
 Leu Ala Ser Ser Gln Arg Asp Ala Glu Ala Ile Asn Ile Ala Gly Ser
 35 40 45
 Leu Arg Met Gln Ser Tyr Arg Leu Gly Tyr Glu Met Gln Arg Ala Ser
 50 55 60
 Pro Ser Leu Ala Glu His Arg Ala Val Trp Gln Lys Thr Leu Ser Ala
 65 70 75 80
 Pro Ala Leu Gln Lys Leu Asn Arg Trp Tyr Val Pro Glu Asp Val Lys
 85 90 95
 Gln Arg Tyr Gln Gln Leu His Leu Gly Trp Gln Glu Met Asp Thr Arg
 100 105 110

Ile Ala Ser Gly Asp Thr Gly Trp Tyr Gln Asn His Ile Glu Asp Phe
 115 120
 Val Gly Arg Ile Asp Ala Phe Val Leu Ala Leu Gln His Tyr Thr Glu
 130 135 140
 His Lys Ile Gln Leu Val Ile Cys Met Ser Leu Thr Gly Gly Leu Gly
 145 150 155 160
 Ile Leu Leu Leu Ala Val Val Thr Leu Arg Arg Ile Arg Arg Gln Val
 165 170 175
 Val Leu Pro Leu Asn Asn Leu Val Ala Ala Ser Glu Arg Ile Glu Gln
 180 185 190
 Gly Gln Phe Asp Thr Pro Ala Pro Asp Thr Thr Leu Pro Asn Glu Leu
 195 200 205
 Gly Gln Leu Ser Arg Ala Phe Asn His Met Ser Ala Glu Leu His Thr
 210 215 220
 Leu Tyr Arg Ser Leu Glu His Ser Val Ala Glu Lys Thr Arg His Leu
 225 230 235 240
 Asn Glu Ala His Gln Gln Leu Glu Met Leu Phe Lys Cys Ser Gln Ala
 245 250 255
 Leu Asn Thr Gly Gln Ile Asp Ser His Cys Phe Arg His Ile Leu Gln
 260 265 270
 Ile Val His Asp Tyr Thr Gln Met Asn Tyr Leu Gln Leu Arg Thr Ser
 275 280 285
 Asp Asp Trp Gln Leu Tyr Glu Gly Leu Glu Thr Pro Gly Glu Lys Met
 290 295 300
 His Asn Leu Pro Val Leu Met Gln Asp Thr Leu Tyr Gly Glu Leu Arg
 305 310 315 320
 Trp Gln Ser Ala Thr Gly Asp Val Pro Leu Pro Leu Met Glu Ser Val
 325 330 335
 Ala Thr Met Leu Gly Arg Gly Leu Tyr Phe Asn Gln Ala Gln Lys His
 340 345 350
 Tyr Gln Gln Leu Leu Leu Met Glu Arg Ala Thr Ile Ala Arg Glu
 355 360 365
 Leu His Asp Ser Leu Ala Gln Val Leu Ser Tyr Leu Arg Ile Gln Leu
 370 375 380
 Thr Leu Leu Lys His Ala Val Pro Gly Asp Asn Ala Pro Ala Gln Ala
 385 390 395 400
 Ile Ile Thr Asp Phe Ser Arg Glu Leu Asn Asn Ala Trp His Gln Leu
 405 410 415
 Arg Glu Leu Leu Thr Thr Phe Arg Leu Thr Leu Asn His Ala Asn Leu
 420 425 430
 Pro Ala Ala Leu Gln Glu Ser Leu Asp Gly Leu Gln Ser Gln Thr Ser
 435 440 445
 Ala Lys Leu Val Leu Asp Cys Arg Leu Ser Ser Leu Ala Leu Asp Ala
 450 455 460
 Gln Lys Gln Val His Leu Leu Gln Ile Val Arg Glu Ala Val Leu Asn
 465 470 475 480
 Ala Ile Lys His Ala Asp Ala Ser Glu Ile Val Val Ser Cys Val Thr
 485 490 495
 Thr Ala Asp Gly Thr His Thr Val Thr Ile Arg Asp Asn Gly Ile Gly
 500 505 510
 Ile Gly Asp Ala Ser Glu Pro Pro Gly His Tyr Gly Leu Asn Ile Met
 515 520 525
 Arg Glu Arg Ala Gly Arg Leu Gly Gly Thr Leu His Phe Ser Gln Pro
 530 535 540
 Pro Gln Gly Gly Thr Gln Val Ser Val Thr Phe Arg Thr Pro Ala Ala
 545 550 555 560
 Gln Ala Glu Lys

565

<210> 10105

<211> 1047

<212> PRT

<213> Enterobacter cloacae

<400> 10105

Arg Ala Ala Lys Arg Gly His Thr Leu Met Ala Asn Phe Phe Ile Asp
 1 5 10 15
 Arg Pro Ile Phe Ala Trp Val Leu Ala Ile Leu Leu Cys Leu Thr Gly
 20 25 30
 Val Leu Ala Ile Thr Ser Leu Pro Val Glu Gln Tyr Pro Asp Leu Ala
 35 40 45
 Pro Pro Asn Val Arg Ile Thr Ala Asn Tyr Pro Gly Ala Ser Ala Gln
 50 55 60
 Thr Leu Glu Asn Thr Val Thr Gln Val Ile Glu Gln Asn Met Thr Gly
 65 70 75 80
 Leu Asp Asn Leu Met Tyr Met Ser Ser Gln Ser Ser Ala Thr Gly Gln
 85 90 95
 Ala Thr Val Thr Leu Ser Phe Thr Ala Gly Thr Asp Pro Asp Glu Ala
 100 105 110
 Val Gln Gln Val Gln Asn Gln Leu Gln Ser Ala Leu Arg Lys Leu Pro
 115 120 125
 Gln Ala Val Gln Asn Gln Gly Val Thr Val Arg Lys Thr Gly Asp Thr
 130 135 140
 Asn Ile Leu Thr Ile Ala Phe Val Ser Thr Asp Gly Ser Met Asp Lys
 145 150 155 160
 Gln Asp Ile Ala Asp Tyr Val Ala Ser Asn Ile Gln Asp Pro Leu Ser
 165 170 175
 Arg Ile Asn Gly Val Gly Asp Ile Asp Ala Tyr Gly Ser Gln Tyr Ser
 180 185 190
 Met Arg Ile Trp Leu Asp Pro Asn Lys Leu Asn Ser Val Gln Met Thr
 195 200 205
 Ala Lys Asp Val Thr Asp Ala Ile Glu Ser Gln Asn Ala Gln Ile Ala
 210 215 220
 Val Gly Gln Leu Gly Gly Thr Pro Ser Val Asp Asn Gln Ala Leu Asn
 225 230 235 240
 Ala Thr Ile Asn Ser Gln Ser Leu Leu Gln Thr Pro Asp Gln Phe Arg
 245 250 255
 Asn Ile Thr Leu Arg Val Asn Gln Asp Gly Ser Glu Val Arg Leu Gly
 260 265 270
 Asp Val Ala Thr Val Glu Met Gly Ala Glu Lys Tyr Asp Tyr Leu Ser
 275 280 285
 Arg Phe Asn Gly Asn Ala Ala Ser Gly Leu Gly Val Lys Leu Ala Ser
 290 295 300
 Gly Ala Asn Glu Met Ala Thr Ala Gln Arg Val Leu Glu Arg Leu Asp
 305 310 315 320
 Glu Leu Ser His Tyr Phe Pro His Gly Leu Glu Tyr Lys Val Ala Tyr
 325 330 335
 Glu Thr Thr Ser Phe Val Lys Ala Ser Ile Glu Asp Val Val Lys Thr
 340 345 350
 Leu Leu Glu Ala Ile Ala Leu Val Phe Leu Val Met Tyr Leu Phe Leu
 355 360 365
 Gln Asn Phe Arg Ala Thr Leu Ile Pro Thr Ile Ala Val Pro Val Val
 370 375 380
 Leu Leu Gly Thr Phe Ala Val Leu Tyr Ala Phe Gly Tyr Ser Ile Asn
 385 390 395 400
 Thr Leu Thr Met Phe Ala Met Val Leu Ala Ile Gly Leu Leu Val Asp
 405 410 415
 Asp Ala Ile Val Val Val Glu Asn Val Glu Arg Ile Met Ser Glu Glu
 420 425 430
 Gly Leu Ser Pro Arg Glu Ala Thr Arg Lys Ser Met Gly Gln Ile Gln
 435 440 445
 Gly Ala Leu Val Gly Ile Ala Met Val Leu Ser Ala Val Phe Ile Pro

450	Met Ala Phe Phe Gly Gly Thr Thr Gly Ala Ile Tyr Arg Gln Phe Ser	455	460
465	Ile Thr Ile Val Ser Ala Met Val Leu Ser Val Leu Val Ala Met Ile	470	475
		485	490
Leu Thr Pro Ala Leu Cys Ala Thr Leu Leu Lys Pro Leu His Lys Gly		500	505
Glu His His Gly Gln Lys Gly Phe Phe Gly Trp Phe Asn Arg Met Phe		515	520
Asn Arg Asn Ala Ala Arg Tyr Glu Ala Gly Val Gly Lys Val Leu His		530	535
Arg Ser Val Arg Trp Met Val Val Tyr Val Leu Leu Leu Gly Gly Met		545	550
Val Phe Leu Phe Leu Arg Leu Pro Thr Ser Phe Leu Pro Leu Glu Asp		565	570
Arg Gly Met Phe Ile Thr Ser Val Gln Leu Pro Ser Gly Ser Thr Gln		580	585
Gln Gln Thr Leu Lys Val Val Gln Lys Val Glu Asn Tyr Phe His Thr		595	600
Gln Glu Lys Asp Asn Val Val Ser Val Phe Ser Thr Val Gly Ser Gly		610	615
Pro Gly Gly Asn Gly Gln Asn Val Ala Arg Met Phe Val Arg Leu Lys		625	630
Asp Trp Asp Gln Arg Asp Ser Asp Thr Gly Ser Ser Phe Ala Ile Ile		645	650
Glu Arg Ala Thr Lys Ala Phe Asn Lys Ile Lys Glu Ala Arg Val Phe		660	665
Ala Ser Ser Pro Pro Ala Ile Ser Gly Leu Gly Ser Ser Ala Gly Phe		675	680
Asp Met Glu Leu Gln Asp His Ala Gly Ala Gly His Asp Ala Leu Met		690	695
Ala Ala Arg Asp Lys Leu Leu Glu Leu Ala Gly Lys Asp Pro Gln Leu		705	710
Thr Arg Val Arg His Asn Gly Leu Asp Asp Ser Pro Gln Leu Gln Val		725	730
Asp Ile Asp Gln Arg Lys Ala Gln Ala Leu Gly Val Ser Ile Asp Asp		740	745
Ile Asn Asp Thr Leu Gln Thr Ala Trp Gly Ser Ser Tyr Val Asn Asp		755	760
Phe Met Asp Arg Gly Arg Val Lys Lys Val Tyr Val Gln Ser Ala Ala		770	775
Lys Tyr Arg Met Leu Pro Asp Asp Ile Asn Arg Trp Tyr Val Arg Asn		785	790
Asn Thr Gly Gly Met Val Pro Phe Ser Ala Phe Ala Thr Ser Arg Trp		805	810
Glu Thr Gly Ser Pro Arg Leu Glu Arg Tyr Asn Gly Tyr Ser Ala Leu		820	825
Glu Ile Val Gly Glu Ala Ala Pro Gly Val Ser Thr Gly Thr Ala Met		835	840
Asp Ile Met Glu Lys Leu Val Gln Gln Leu Pro Thr Gly Phe Gly Leu		850	855
Glu Trp Thr Ala Met Ser Tyr Gln Glu Arg Leu Ser Gly Ala Gln Ala		865	870
Pro Ala Leu Tyr Ala Leu Ser Leu Leu Val Val Phe Leu Cys Leu Ala		885	890
Ala Leu Tyr Glu Ser Trp Ser Val Pro Phe Ser Val Met Leu Val Val		900	905
Pro Leu Gly Val Ile Gly Ala Leu Leu Ala Thr Trp Met Arg Gly Leu		915	920
Glu Asn Asp Val Tyr Phe Gln Val Gly Leu Leu Thr Val Ile Gly Leu		930	935
			940

Ser Ala Lys Asn Ala Ile Leu Ile Val Glu Phe Ala Asn Glu Met Asn
 945 950 955 960
 Ala Lys Gly His Glu Leu Met Ala Ala Thr Leu His Ala Cys Arg Gln
 965 970 975
 Arg Leu Arg Pro Ile Leu Met Thr Ser Leu Ala Phe Val Phe Gly Val
 980 985 990
 Leu Pro Met Ala Thr Ser Ser Gly Ala Gly Ser Ser Ser Gln His Ala
 995 1000 1005
 Val Gly Thr Gly Val Met Gly Gly Met Ile Ser Ala Thr Ile Leu Ala
 1010 1015 1020
 Ile Tyr Phe Val Pro Leu Phe Phe Val Leu Ile Arg Arg Arg Phe Pro
 1025 1030 1035 1040
 Leu Lys Asp Lys Pro Glu
 1045

<210> 10106

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 10106

Val Met Asn Pro Leu Lys Ala Gly Asp Ile Ala Pro Lys Phe Ser Leu
 1 5 10 15
 Pro Asp Gln Asp Gly Glu Gln Val Asn Leu Thr Asp Phe Gln Gly Gln
 20 25 30
 Arg Val Leu Val Tyr Phe Tyr Pro Lys Ala Met Thr Pro Gly Cys Thr
 35 40 45
 Val Gln Ala Cys Gly Leu Arg Asp Asn Met Asp Glu Leu Lys Lys Val
 50 55 60
 Gly Val Glu Val Leu Gly Ile Ser Thr Asp Lys Pro Glu Lys Leu Ser
 65 70 75 80
 Arg Phe Ala Glu Lys Glu Leu Leu Asn Phe Thr Leu Leu Ser Asp Glu
 85 90 95
 Asp His Gln Val Cys Glu Gln Phe Gly Val Trp Gly Glu Lys Ser Phe
 100 105 110
 Met Gly Lys Thr Tyr Asp Gly Ile His Arg Ile Ser Phe Leu Ile Gly
 115 120 125
 Ala Asp Gly Lys Val Glu His Val Phe Asp Asp Phe Lys Thr Ser Asn
 130 135 140
 His His Asp Val Val Leu Lys Trp Leu Lys Glu Asn Ala
 145 150 155

<210> 10107

<211> 544

<212> PRT

<213> Enterobacter cloacae

<400> 10107

Leu Ser Gln Lys Arg Leu Ser Phe Leu Phe His Cys Gln Val Ser Gln
 1 5 10 15
 Asn Pro Asp Glu Trp Asp Phe Leu His Leu Leu Thr Arg Leu His Ser
 20 25 30
 Gln Ser Ser Gly Asp Glu Arg Tyr Ala Gly Ser Ser Val Lys Leu Ala
 35 40 45
 His Pro Lys Tyr Arg Thr Val Val Met Phe Arg Gln Leu Arg Lys Thr
 50 55 60
 Leu Val Ala Thr Leu Ile Ala Ala Val Thr Val Gly Gln Val Leu Pro
 65 70 75 80
 Ala Phe Ala Asp Ser Ser Asp Ser Leu Pro Asp Met Gly Thr Thr Ala
 85 90 95
 Gly Ser Thr Leu Ser Ile Gly Gln Glu Met Gln Met Gly Asp Tyr Tyr

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100                      105                      110
Val Arg Gln Leu Arg Gly Ser Ala Pro Leu Ile Asn Asp Pro Leu Leu
115
Val Gln Tyr Ile Asn Gly Leu Gly Met Arg Leu Val Ala His Ala Asp
130
Ser Val Lys Thr Pro Phe His Phe Tyr Leu Ile Asn Asn Asp Glu Ile
145
Asn Ala Phe Ala Phe Phe Gly Gly Asn Val Val Leu His Ser Ala Leu
165
Phe Arg Tyr Ser Asp Asn Glu Ser Gln Leu Ala Ser Val Met Ala His
180
Glu Ile Ser His Val Thr Gln Arg His Leu Ala Arg Ala Met Glu Asp
195
Gln Lys Arg Asn Ala Pro Leu Thr Trp Val Gly Ala Leu Gly Ser Ile
210
Leu Leu Ala Met Ala Ser Pro Gln Ala Gly Met Ala Ala Leu Thr Gly
225
Thr Leu Ala Gly Thr Arg Gln Gly Met Ile Ser Phe Thr Gln Gln Asn
245
Glu Gln Glu Ala Asp Arg Ile Gly Ile Gln Val Leu Gln Arg Ser Gly
260
Phe Asp Pro Gln Ala Met Pro Ser Phe Leu Glu Lys Leu Leu Asp Gln
275
Ala Arg Tyr Ser Ser Arg Pro Pro Glu Ile Leu Leu Thr His Pro Leu
290
Pro Glu Ser Arg Leu Ser Asp Ala Arg Asn Arg Ala Asn Gln Met Arg
305
Pro Val Val Val Gln Ser Ser Gln Asp Phe Tyr Met Ala Lys Val Arg
325
Thr Leu Gly Met Tyr Asn Ser Gly Arg Asn Gln Leu Thr Ser Asp Leu
340
Leu Asp Ala Leu Ala Lys Gly Asn Val Arg Glu Lys Asn Ala Ala Gln
355
Tyr Gly Gln Ala Leu Gln Ala Met Glu Ala Ser Lys Tyr Asp Glu Ala
370
Arg Lys Ala Leu Gln Pro Leu Leu Ala Ser Ala Pro Asp Asn Pro Trp
385
Tyr Leu Asp Leu Ala Thr Asp Ile Asp Leu Gly Gln Lys Lys Ala Thr
405
Asp Ala Ile Asn Arg Leu Lys Gly Ala Lys Asp Ile Arg Asn Asn Pro
420
Val Leu Gln Leu Asn Leu Ala Asn Ala Tyr Leu Gln Gly Gly Gln Pro
435
Gly Glu Ala Val Thr Ile Leu Asn Arg Tyr Thr Phe Asn Asn Lys Asp
450
Asp Gln Asn Gly Trp Glu Leu Leu Ala Gln Ala Gln Gly Gln Leu Gly
465
Asn Arg Asp Gln Glu Leu Ala Ala Arg Ala Glu Gly Leu Ala Leu Ala
485
Gly Arg Leu Glu Gln Ala Ile Ser Leu Leu Ser Ser Ala Ser Ser Gln
500
Val Lys Leu Gly Ser Leu Gln Gln Ala Arg Tyr Asp Ala Arg Ile Asp
515
Gln Leu Arg Gly Leu Gln Gln Arg Phe Lys Pro Tyr Glu Lys Met
530
535
540

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<210> 10108

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 10108
 Pro Ile Ser Pro Phe Ala Arg Arg Ala Ser Leu Ile Ile His Arg His
 1 5 10 15
 Asn Ile Asn Asn Thr Ser Gln Ser Cys Thr Glu Phe Thr Met Asn Asn
 20 25 30
 Val Leu Gly Phe Leu Glu Ala Lys Leu Met Pro Leu Ala Ala Lys Thr
 35 40 45
 Ala Gln Gln Arg His Leu Gly Ala Ile Arg Gly Ala Tyr Val Ser Phe
 50 55 60
 Met Pro Phe Ile Ile Val Gly Ser Ile Leu Leu Val Ile Ser Ser Phe
 65 70 75 80
 Pro Asn Gln Ala Tyr Gln Gln Phe Met Ser Gln Ala Phe Gly Glu Ser
 85 90 95
 Trp Ser Ala Ile Ile Glu Ile Pro Phe Asn Ala Val Phe Ser Thr Met
 100 105 110
 Ser Leu Phe Ile Ser Phe Leu Val Ala Tyr Arg Leu Ala Glu His Tyr
 115 120 125
 Gly Glu Asp Arg Ile Ser Cys Gly Ile Leu Ala Leu Val Ala Phe Leu
 130 135 140
 Ile Leu Thr Pro Phe Ile Lys Val Ala Glu Asn Gly Gly Ile Thr Val
 145 150 155 160
 Met Pro Val Glu Trp Ile Gly Ser Lys Gly Leu Phe Val Ala Met Ile
 165 170 175
 Gly Ser Leu Leu Trp Thr Glu Leu Phe Cys Trp Leu Lys Arg Lys Lys
 180 185 190
 Leu Val Ile Lys Met Pro Asp Gly Val Pro Pro Ala Val Gln Glu Ser
 195 200 205
 Phe Ala Ala Leu Ile Pro Ala Leu Leu Val Met Ile Leu Val Leu Leu
 210 215 220
 Ile Arg Ile Ile Phe Glu Asn Thr His Tyr His Thr Ile His Gln Phe
 225 230 235 240
 Ile Tyr Glu Val Val Ala Thr Pro Val Arg His Tyr Gly Thr Ser Tyr
 245 250 255
 Phe Gly Ala Leu Met Thr Val Phe Ser Ile Thr Ile Leu Trp Ser Val
 260 265 270
 Gly Ile Asn Ser Gly Ser Met Ile Asn Gly Ile Ile Arg Pro Leu Trp
 275 280 285
 Met Glu Asn Gln Thr Asp Asn Ile Ala Ala Ile Gln Ala Gly Thr Thr
 290 295 300
 Pro Pro His Ile Ile Thr Glu Gln Phe Phe Asp Met Ile Trp Met Gly
 305 310 315 320
 Gly Ala Gly Ala Thr Leu Ser Leu Val Ile Ala Met Leu Ile Phe Ala
 325 330 335
 Arg Ser Lys Asn Met Arg Glu Val Ala Arg Leu Gly Ala Gly Ala Ser
 340 345 350
 Val Phe Asn Ile Asn Glu Pro Ile Leu Phe Gly Leu Pro Val Ile Met
 355 360 365
 Asn Pro Ile Met Leu Ile Pro Phe Asn Leu Val Pro Leu Val Leu Val
 370 375 380
 Thr Val Gln Tyr Ala Ala Met Lys Ile Gly Ala Val Ala Val Thr Thr
 385 390 395 400
 Gly Val Phe Ile Pro Trp Thr Leu Pro Pro Val Ile Ser Gly Phe Ile
 405 410 415
 Val Thr Gly His Leu Ser Gly Ser Val Met Gln Leu Ile Asn Leu Leu
 420 425 430
 Ile Gly Ala Met Leu Tyr Leu Pro Phe Met Arg Ile Leu Asp Lys Gln
 435 440 445
 Tyr Arg Ala Ala Glu Ile Ala Ser Val Thr Gln Thr Asp Thr Thr Leu
 450 455 460
 Ala Lys Gln Glu
 465

<210> 10109
 <211> 320
 <212> PRT
 <213> Enterobacter cloacae

<400> 10109
 Ser Met Trp Gly Ile Ile Ala Thr Trp Arg Met Ala Leu Glu Gly Val
 1 5 10 15
 Thr Glu Ser Ala Ser Ala Leu Ala Ala Gly Lys Pro Val Ala Ala Ala
 20 25 30
 Val Val Asp Ala Val Ala Ala Val Glu Asp Phe Pro Leu Tyr Lys Ser
 35 40 45
 Val Gly Tyr Gly Gly Leu Pro Thr Glu Asn Gly Glu Val Glu Leu Asp
 50 55 60
 Ala Ala Tyr Met Asp Gly Asp Thr Leu Ala Phe Gly Ala Val Gly Asn
 65 70 75 80
 Leu Val Asp Ile Ala Asn Pro Val Arg Val Ala His Ala Leu Ser Arg
 85 90 95
 Gln Arg Tyr Asn Ser Leu Leu Val Gly Gln Gly Ala Arg Glu Trp Ala
 100 105 110
 Leu Ser Gln Gly Phe Ala Asp Lys Thr Met Leu Thr Asp Arg Ala Met
 115 120 125
 Gln His Tyr Arg Lys Arg Cys Arg Glu Thr Leu Asp Lys Gly Leu Ser
 130 135 140
 Pro Tyr Asp Gly His Asp Thr Val Gly Ile Ile Gly Leu Asp Lys Gln
 145 150 155 160
 Gly Ser Met Ser Val Ala Thr Ser Thr Ser Gly Leu Phe Met Lys Lys
 165 170 175
 Arg Gly Arg Leu Gly Asp Ser Pro Ile Ile Gly Ser Gly Phe Tyr Cys
 180 185 190
 Asp Ser Glu Thr Gly Ala Ala Thr Ala Thr Gly Val Gly Glu Asp Leu
 195 200 205
 Met Lys Gly Cys Thr Ser Tyr Glu Ile Val Arg Arg Met Ala Gln Gly
 210 215 220
 Met Thr Pro Gln Gln Ala Ala Asp Ser Val Val Phe Glu Leu Glu Asp
 225 230 235 240
 Lys Leu Met Ser Arg Phe Gly Arg Ala Gly Asp Leu Ser Val Val Cys
 245 250 255
 Met Asn Ser Lys Gly Glu Phe Gly Ala Ala Thr Asn Ile Lys Thr Phe
 260 265 270
 Ser Phe Val Val Ala Thr Ala Arg Gln Pro Leu Thr Val Phe Arg Thr
 275 280 285
 Glu Arg Leu Arg Glu Lys Thr His Tyr His Ala Val Asp Asp Glu Trp
 290 295 300
 Met Gln Ala Tyr Ala Ala Arg Ile Arg Ala Pro Ile Glu Glu Leu
 305 310 315 320

<210> 10110
 <211> 243
 <212> PRT
 <213> Enterobacter cloacae

<400> 10110
 Tyr Arg Phe Phe Phe Ser Cys Ser Ser Cys Thr Val Asp Thr Val Thr
 1 5 10 15
 Asn Val Lys Ile Leu Leu Ile Glu Asp Asp Leu Asp Leu Gly Asn Gly
 20 25 30
 Val Arg Ile Ala Leu Ala Asp Gln Gly Phe Asp Val Ile Trp Val Arg
 35 40 45
 Arg Lys Glu Asp Ala Leu His Gln Leu Gly Ile Cys Val Pro Glu Leu

50 55 60
 Ile Leu Leu Asp Leu Gly Leu Pro Asp Gly Asp Gly Met Ser Leu Met
 65 70 75 80
 Thr Arg Leu Arg Gln Gln Leu Lys Gly Val Pro Val Ile Ile Leu Thr
 85 90 95
 Ala Arg Gly Thr Leu Gln Asp Arg Leu Cys Gly Leu Asp Ala Gly Ala
 100 105 110
 Asp Asp Tyr Leu Val Lys Pro Phe Val Leu Ala Glu Leu Leu Ala Arg
 115 120 125
 Val Arg Ala Leu Ala Arg Arg Ser Tyr Gly Phe Glu Asn Glu Ala Ile
 130 135 140
 Glu Ile Arg Gly Leu Ser Leu His Ile Pro Thr Arg Arg Val Thr Val
 145 150 155 160
 Ser Ala Arg His Val Glu Leu Thr Ala Ser Glu Tyr Ala Leu Leu Glu
 165 170 175
 Thr Leu Met Leu Arg Ala Asp Arg Val Leu Thr Arg Arg Tyr Leu Glu
 180 185 190
 Glu Arg Leu Phe Gly Thr Lys Glu Asn Leu Ser Asn Ala Leu Asp Val
 195 200 205
 His Met Gly Asn Leu Arg Arg Lys Ile Gly Asp Gly Phe Val Arg Thr
 210 215 220
 Val Arg Gly Val Gly Tyr Val Ile Asp Thr Val Pro Val Gln Lys Ala
 225 230 235 240
 Ala Gly

<210> 10111
 <211> 333
 <212> PRT
 <213> Enterobacter cloacae

<400> 10111
 Ile Ser Pro Arg Phe Ser Ala Phe Ile Ser Leu Thr Ser Leu Ile Met
 1 5 10 15
 Gly Ile Ser Phe Leu Asp Ser Arg Glu Gln Gly Arg Leu Ser Ser Phe
 20 25 30
 Ile Arg His Lys Asp Leu Gln Lys Met Asn Asn His Phe Arg Cys Ile
 35 40 45
 Gly Ile Val Gly His Pro Arg His Pro Thr Ala Leu Thr Thr His Glu
 50 55 60
 Met Leu Tyr Arg Trp Leu Cys Gly Lys Gly Tyr Glu Val Met Val Glu
 65 70 75 80
 Gln Gln Ile Ala Gln Glu Leu Gln Leu Lys Ser Val Arg Thr Gly Thr
 85 90 95
 Leu Ala Glu Ile Gly Gln Gln Ala Asp Leu Ala Val Val Val Gly Gly
 100 105 110
 Asp Gly Asn Met Leu Gly Ala Ala Arg Thr Leu Ala Arg Tyr Asp Ile
 115 120 125
 Lys Val Ile Gly Val Asn Arg Gly Asn Leu Gly Phe Leu Thr Asp Leu
 130 135 140
 Asp Pro Asp Asn Ala Gln Gln Leu Ala Asp Val Leu Glu Gly His
 145 150 155 160
 Tyr Ile Ser Glu Lys Arg Phe Leu Leu Glu Ala Gln Val Cys Gln Gln
 165 170 175
 Asp Cys Gln Lys Arg Ile Ser Thr Ala Ile Asn Glu Val Val Leu His
 180 185 190
 Pro Gly Lys Val Ala His Met Ile Glu Phe Glu Val Tyr Ile Asp Glu
 195 200 205
 Ile Phe Ala Phe Ser Gln Arg Ser Asp Gly Leu Ile Ile Ser Thr Pro
 210 215 220
 Thr Gly Ser Thr Ala Tyr Ser Leu Ser Ala Gly Gly Pro Ile Leu Thr

225 230 235 240
 Pro Ser Leu Asp Ala Ile Thr Leu Val Pro Met Phe Pro His Thr Leu
 245 250 255
 Ser Ala Arg Pro Leu Val Ile Asn Gly Asp Ser Thr Ile Arg Leu Arg
 260 265 270
 Phe Ser His Arg Arg Ser Asp Leu Glu Ile Ser Cys Asp Ser Gln Ile
 275 280 285
 Ala Leu Pro Ile Gln Glu Gly Glu Asp Val Leu Ile Arg Arg Cys Asp
 290 295 300
 Tyr His Leu Asn Leu Ile His Pro Lys Asp Tyr Ser Tyr Phe Asn Thr
 305 310 315 320
 Leu Ser Ser Lys Leu Gly Trp Ser Lys Lys Leu Phe
 325 330

<210> 10112

<211> 430

<212> PRT

<213> *Enterobacter cloacae*

<400> 10112

Thr Ser Ser Leu Thr Gly Tyr Asn Pro Leu Ile Leu Lys Arg Phe Lys
 1 5 10 15
 Thr Met Phe Gln Ala Leu Leu Arg Arg Arg Glu Ala Arg Leu Phe Phe
 20 25 30
 Ile Ile Ser Ile Leu Phe Phe Ile Cys Ile His Ser Ile Asp Ala Phe
 35 40 45
 Leu Ala Pro Met Met Ile Asn Gln Gly Ile Glu Pro Gln Ile Met Gly
 50 55 60
 Ile Ile Met Gly Ala Ser Gly Leu Ala Thr Leu Leu Ile Arg Phe Pro
 65 70 75 80
 Leu Gly Ile Ile Ser Asp Val Val Lys Ser Arg Arg Ile Phe Ile Gln
 85 90 95
 Ile Gly Leu Leu Leu Pro Ile Ile Ala Trp Pro Ile Ala Trp Leu Glu
 100 105 110
 Pro Asn Ala Ile Thr Leu Tyr Leu Ala Lys Ala Ala Asp Gly Val Thr
 115 120 125
 Ala Ala Thr Trp Val Leu Tyr Asn Ile Leu Phe Met Arg Tyr Phe Gly
 130 135 140
 Arg Asn Glu Ala Pro Ala Ala Val Ala Leu Leu Ala Leu Ala Gly Pro
 145 150 155 160
 Ile Gly Val Phe Leu Gly Asn Cys Ile Gly Ala Val Leu Ile His Tyr
 165 170 175
 Phe Ala Asn Asn Ile Ala Phe Phe Val Ser Cys Ile Ser Ala Leu Val
 180 185 190
 Ala Leu Ile Leu Thr Thr Arg Ile Gln Asp Val His Asp Pro Val Gln
 195 200 205
 Ala Pro Thr Leu Lys Ala Cys Ile Thr Gly Ala Arg Gln Gln Leu Ala
 210 215 220
 Asp Arg Ser Val Trp Leu Ile Gly Ile Leu Ala Thr Val Val Ile Leu
 225 230 235 240
 Val Pro Phe Ala Thr Arg Asp Thr Leu Thr Pro Val Tyr Ala Glu Gln
 245 250 255
 Leu Gly Ala Arg Ala Gly Ile Leu Ala Leu Leu Gly Asn Ile His Leu
 260 265 270
 Leu Phe Tyr Gly Leu Ala Ile Ala Leu Cys Ser Ser Val Phe Tyr Gln
 275 280 285
 Arg Leu Gly Leu Val Lys Thr Ala Val Leu Gly Ile Val Leu Gln Val
 290 295 300
 Ile Ser Thr Phe Gly Ile Pro Phe Thr Ser Asn Met Tyr Val Ile Tyr
 305 310 315 320
 Leu Trp Gln Ala Leu Ala Gly Phe Ser Phe Gly Met Ala Phe Ala Ala

325 330 335
 Phe Met Ser Leu Ser Val Val Asn Thr Ser Ser Asp Glu Gln Ser Thr
 340 345 350
 Arg Met Gly Leu Phe Gln Thr Ile Tyr Ser Cys Gly Met Phe Val Gly
 355 360 365
 Pro Val Met Met Gly Val Met Met Gln His Ile Asn Leu Ser Ser Gly
 370 375 380
 Tyr Ile Leu Ile Ala Ala Leu Ser Val Val Ala Ala Ile Ala Thr Pro
 385 390 395 400
 Leu Ser Ala Arg Trp Val Tyr Ala Arg Lys Thr Gln Thr Ser Ala Gln
 405 410 415
 Leu Leu Lys Asn Gly Ala Tyr Ala Ala Ala Pro Asp Gln
 420 425 430

<210> 10113

<211> 461

<212> PRT

<213> *Enterobacter cloacae*

<400> 10113

Ile Pro Phe Pro Gly Ser Pro Gly Gly Gln Leu Thr Ser Glu Lys Ser
 1 5 10 15
 Lys Glu Lys Arg Val Ser Trp Lys Leu Lys Thr Gly Lys Ser Thr Glu
 20 25 30
 Glu Arg Gln Gln Ala Asn Gln Gln Ile Arg Glu Thr Val Glu Gln Ile
 35 40 45
 Leu Ala Asp Ile Glu Lys Arg Gly Asn Lys Ala Ile Arg Glu Leu Ser
 50 55 60
 Ile Lys Phe Asp Arg Tyr Asp Arg Gln Asp Tyr Arg Leu Thr Ser Ala
 65 70 75 80
 Glu Ile Asp Arg Cys Ile Lys Gln Leu Ser Arg Gln Asp Ile Gln Asp
 85 90 95
 Ile Glu Phe Ala Gln Gln Gln Val Ala Asn Phe Ala Arg Ala Gln Lys
 100 105 110
 Glu Cys Leu Arg Asp Leu Glu Ile Glu Thr Arg Pro Gly Val Ile Leu
 115 120 125
 Gly His Lys Asn Ile Pro Ile Asn Ala Val Gly Cys Tyr Val Pro Gly
 130 135 140
 Gly Lys Tyr Pro Leu Leu Ala Ser Ala His Met Ser Ile Ile Thr Ala
 145 150 155 160
 Ser Val Ala Gly Cys Ser Arg Ile Ile Ser Cys Ala Pro Pro Phe Asn
 165 170 175
 Gly Gln Pro Ala Pro Ala Ile Val Ala Ala Gln Lys Met Ala Gly Ala
 180 185 190
 Thr Glu Ile Tyr Ala Leu Gly Gly Ile Gln Ala Ile Gly Ala Met Ala
 195 200 205
 Leu Gly Thr Asp Ser Leu Ala Pro Val Asp Met Leu Val Gly Pro Gly
 210 215 220
 Asn Ala Phe Val Ala Glu Ala Lys Arg Gln Leu Phe Gly Arg Val Gly
 225 230 235 240
 Ile Asp Leu Phe Ala Gly Pro Thr Glu Thr Leu Val Ile Ala Asp Asp
 245 250 255
 Thr Val Asp Ala Glu Met Cys Ala Thr Asp Leu Leu Gly Gln Ala Glu
 260 265 270
 His Gly Val Thr Thr Pro Ala Ile Leu Leu Thr Asn Ser Leu Gln Leu
 275 280 285
 Ala Lys Glu Thr Leu Ser Glu Val Glu Arg Leu Leu Glu Lys Leu Pro
 290 295 300
 Thr Ala Asp Ile Ala Arg Gln Ser Trp Gln Asp Tyr Gly Glu Ile Ile
 305 310 315 320
 Val Cys Asp Ser His Glu Glu Met Leu Leu Glu Ala Asp Arg Ile Ala

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<210> 10114
<211> 256
<212> PRT
<213> Enterobacter cloacae

<400> 10114
Ala Met Thr Leu Leu Gln Thr Pro Ser Phe Thr Leu His Gly Lys Arg
1      5      10      15
Ala Leu Val Thr Gly Gly Ser Arg Gly Ile Gly Phe Ala Ala Val
20     25     30
Ala Leu Ala Gln Ala Gly Ala Glu Val Trp Ile Ala Ala Arg Gly Arg
35     40     45
Glu Ala Leu Ala His Ala Ala Gly Leu Ala Ala Glu His Ser Leu Ala
50     55
Phe His Pro Leu Glu Leu Asp Ile Thr Asp Ala Gln Glu Val Glu Arg
65     70     75     80
Val Leu Ala Thr Leu Pro Thr Pro Asp Ile Leu Val Asn Ser Ala Gly
85     90     95
Leu Ala Arg His Gln Pro Phe Leu Glu Val Asn Glu Glu Asn Phe Asp
100    105    110
Ala Val Met Ala Leu Asn Leu Arg Ala Thr Phe Phe Ile Ser Gln His
115    120    125
Val Ala Arg Arg Met Arg Ala Gly Gly Lys Gly Gly Ser Ile Ile His
130    135    140
Ile Ser Ser Gln Met Gly His Val Gly Gly Pro Glu Arg Ser Val Tyr
145    150    155    160
Cys Ala Ser Lys Phe Ala Leu Glu Gly Leu Thr Arg Thr Met Ala Leu
165    170    175
Glu Leu Gly Asp Ala Gly Ile Arg Val Asn Thr Leu Cys Pro Thr Phe
180    185    190
Ile Glu Thr Asp Leu Thr Arg Ser Ser Leu Ala Asp Pro Ala Phe Arg
195    200    205
Arg Tyr Val Leu Asp Asn Ile Lys Leu Arg Arg Pro Gly Arg Leu Glu
210    215    220
Asp Ile Met Gly Pro Val Val Phe Leu Ala Ser Asp Ala Ala Gly Leu
225    230    235    240
Ile Thr Gly Ser Ala Leu Met Val Asp Gly Gly Trp Thr Ala Thr
245    250    255

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<210> 10115
<211> 307
<212> PRT
<213> Enterobacter cloacae
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<400> 10115

Thr Met Lys Ile Asp Leu Asn Leu Leu Pro Leu Phe Leu Ala Val Ala
 1 5 10 15
 Glu Glu Arg Ser Phe Ser Ala Ala Ala Gly Arg Leu Gly Ile Thr Arg
 20 25 30
 Ser Ala Val Ser Gln Gly Ile Arg Arg Leu Glu Asp Gly Phe Gln Thr
 35 40 45
 Leu Leu Val Met Arg Thr Thr Arg Ser Val Arg Leu Thr Glu Ala Gly
 50 55 60
 Glu Arg Leu His Lys Ser Leu Leu Gly Pro Ile Ala Asn Ile Glu Ala
 65 70 75 80
 Ala Phe Asp Asp Val Thr Ser Asp Ser Met Pro Arg Gly Gln Leu Arg
 85 90 95
 Ile Ala Val Thr Ser Ile Ala Glu Ala Phe Leu Ser Gly Pro Leu Leu
 100 105 110
 Ala Ser Phe Thr Ala Ala His Pro Ala Val Ser Leu Asp Val Phe Val
 115 120 125
 Ser Asp Glu Glu Phe Asp Ile Val Ala Ala Gly Tyr Asp Ala Gly Val
 130 135 140
 Arg Leu Gly Glu Val Ile Glu Lys Asp Met Ile Ala Ile Pro Leu Thr
 145 150 155 160
 Gly Gln Gln Arg Glu Arg Val Val Ala Ser Pro Ser Tyr Leu Ala Thr
 165 170 175
 His Ser Ala Pro Ala His Pro Arg Glu Leu Val Ala His Arg Cys Ile
 180 185 190
 Gly Trp Arg Pro Ser Pro Asp Val Ala Pro Tyr Arg Trp Glu Phe Glu
 195 200 205
 Glu Ala Gly Val Pro Phe Asp Val Ala Ile Glu Pro Gln Ile Thr Thr
 210 215 220
 Asn Asp Leu Arg Leu Met Leu Ser Leu Ala Leu Ala Gly Gly Gly Ile
 225 230 235 240
 Thr Phe Ala Thr Glu Asp Thr Phe Thr Pro Tyr Ile Glu Ser Gly Gln
 245 250 255
 Leu Val Ser Leu Leu Asp Ala Phe Leu Pro Ser Phe Pro Gly Phe Tyr
 260 265 270
 Leu Tyr Phe Pro Gln Arg His Asn Met Ala Pro Lys Leu Arg Ala Leu
 275 280 285
 Ile Glu His Ile Arg Gln Trp Arg Gln Leu Pro Ala Thr Gln Pro Thr
 290 295 300
 Gln Arg
 305

<210> 10116

<211> 103

<212> PRT

<213> *Enterobacter cloacae*

<400> 10116

Thr Gly Ser Ile Arg Ser Pro Ser Ser Arg Ala Met Arg Pro Val Thr
 1 5 10 15
 Pro Ala His His Gln Pro Ala Leu Pro Leu Pro Ser Ile Pro Pro Arg
 20 25 30
 His Gln Arg Pro Pro Leu Thr Pro Ser Pro Ile Thr Trp Gly Pro Cys
 35 40 45
 Ser Phe Arg Leu Thr Ala Gly Thr Pro Pro Thr Thr Arg Cys Arg Ser
 50 55 60
 Cys Arg Glu Pro His Arg Thr Ala Pro Pro Ser Arg Ser Met Thr Glu
 65 70 75 80
 Pro Pro Cys Ser Ala Arg Arg Cys Ser Thr Ala Ala Ala Gly Ala
 85 90 95

Leu Arg Gln Pro Arg Arg
100

<210> 10117

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10117

Pro Val Ala Pro Lys Arg Ala Ala Pro Ser Pro Ser Val Trp Arg Thr
1 5 10 15
Ile Gln Arg Ser Pro Pro Arg Gln Thr Ala Thr Asp Pro Gly Ala Thr
20 25 30
Pro Ser Ser Ile Asn Arg Arg Lys Ala Arg Arg Cys Lys Ser Pro Pro
35 40 45
Pro Met Arg Gln Gly Thr Ser Arg Cys Pro Ala Gln Pro Leu Arg Arg
50 55 60
Trp Cys Arg Ser Leu Pro Ala Pro Thr Leu Lys Ser Trp Arg
65 70 75

<210> 10118

<211> 471

<212> PRT

<213> Enterobacter cloacae

<400> 10118

Gly Gln Asp Met Gly Lys Lys Met Pro Tyr Trp Trp Leu Ser Cys Cys
1 5 10 15
Leu Ile Ser Val Pro Ala Ile Ala Ala Asn Pro Ala Ala Met Ile Asn
20 25 30
Thr Gly Gln Leu Ser Glu Thr Gln Glu Leu Pro Ser Leu Asn Gly Arg
35 40 45
Val Ala Pro Val Ala Ser Lys Ala Ala Pro Gly Thr Leu Gln Leu Asn
50 55 60
Glu Ala Val Asn Arg Ala Val Thr Trp His Pro Ala Ile Ser Glu Ala
65 70 75 80
Val Gly Lys Leu Tyr Gln Gln Ser Glu Asn Val Asp Val Ala Lys Ser
85 90 95
Lys Tyr Tyr Pro Gln Ile Asn Ala Gly Met Asp Asn Gly Tyr Ser His
100 105 110
Asp Gly Asp Asp Asn Gly Phe Thr Pro Ser Leu Val Leu Ser Leu Ser
115 120 125
Gln Met Leu Tyr Asp Phe Gly Lys Val Ala Ser Gln Val Arg Ala Glu
130 135 140
Asn Ala Gly Val Ala Gln Gln Gln Ala Asn Val Leu Val Ser Ile Asp
145 150 155 160
Thr Ile Ala His Asp Thr Ala Ile Ala Met Val Gln Val Gln Thr Trp
165 170 175
Gln Gln Met Val Glu Thr Ala Lys Glu Gln Leu Asp Ala Leu Ser Ser
180 185 190
Ile Gly Thr Leu Thr Lys Gln Arg Asn Asp Glu Gly Ala Thr Ser Leu
195 200 205
Ser Asp Val Val Gln Thr Asp Ala Arg Ile Glu Gly Ala Arg Ala Gln
210 215 220
Leu Met Gln Tyr Gln Ala Ser Leu Asp Ser Ser Arg Ala Thr Leu Met
225 230 235 240
Ser Leu Leu Gly Trp Asp Ser Leu Asn Ala Val Ser Asn Asp Phe Pro
245 250 255
Gln Ser Leu Ala Arg Ser Cys Asp Ile Ala Glu Pro Asp Asp Arg Leu
260 265 270
Val Pro Ser Val Leu Ala Ala Trp Ala Gln Ala Asn Val Ala Gln Ala

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      275              280              285
Asn Leu Asp Tyr Ala Asn Ala Gln Met Thr Pro Thr Val Ser Leu Glu
290              295              300
Pro Glu Val Arg His Tyr Leu Asn Asp Arg Tyr Ala Gly Asn Glu Thr
305              310              315              320
Arg Asp Arg Thr Gln Tyr Ser Ala Trp Val Lys Val Gln Met Pro Leu
              325              330              335
Tyr Gln Gly Gly Gly Leu Thr Ala Arg Arg Asn Ala Ala Gly His Ala
              340              345              350
Val Glu Ser Ser Ala Gln Ser Thr Ile Gln Arg Thr Arg Leu Glu Val Arg
              355              360              365
Gln Lys Leu Leu Glu Ala Arg Ser Gln Val Met Ser Leu Met Ser Thr
              370              375              380
Leu Gln Ile Gln Gly Arg Gln Glu Ala Leu Ser Ala Arg Thr Arg Glu
              385              390              395              400
Leu Tyr Gln Gln Gln Tyr Leu Asp Leu Gly Ser Arg Pro Leu Leu Asp
              405              410              415
Val Leu Asn Ala Glu Gln Glu Val Tyr Gln Ala Arg Phe Thr Gln Gln
              420              425              430
Gln Thr Ala Gly Gln Leu His Gln Leu Gln Leu Asn Cys Leu Tyr Asn
              435              440              445
Thr Gly Arg Leu Arg His Ala Phe Asp Leu Glu Asn Arg Thr Ile Gln
              450              455              460
Thr Val Glu Ile Gln Pro
465              470

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<210> 10119
<211> 114
<212> PRT
<213> Enterobacter cloacae

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<400> 10119
Arg Arg Pro Lys Arg Gly Trp Thr Ala Leu Cys Ser Cys Arg Pro Arg
1              5              10              15
Thr Ser Ala Lys Arg His Arg Ser Ala Arg Thr Cys Cys Ala Ala Thr
              20              25              30
Ile Phe Ser Ser Arg Arg Ser Ser Ala Ile Thr Arg Lys Ile Pro Ala
              35              40              45
Trp Arg Cys Ala Leu Thr Ala Trp Arg Ser Lys Arg Ala Lys Lys Trp
              50              55              60
Arg Ser Ser Gly Ala Thr Ala Arg Ala Asn Gln Pro Cys Cys Arg Arg
              65              70              75              80
Trp Arg Ala Gly Trp Ile Trp Arg Ala Val Asn Cys Gly Ser Thr Thr
              85              90              95
Ser Ala Cys Arg Ile Trp Thr Trp Leu Thr Cys Gly Glu Thr Ser Ala
              100              105              110
Leu

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<210> 10120
<211> 417
<212> PRT
<213> Enterobacter cloacae

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<400> 10120
Thr Thr Ala Val Cys Ser Asn Ser Ser Arg Gln Pro Asp Gly Ser Gly
1              5              10              15
Lys Met Lys Ile Ser Gln Arg Asp Val Ala Ala Val Glu Asp Leu Asp
              20              25              30
Asn Ala Leu Asp Ser Glu Ser Gly Tyr Thr Gly Ala Arg Arg Ile Val
              35              40              45

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Phe Phe Ser Leu Val Met Phe Val Val Leu Gly Val Trp Ala Trp Phe
 50 55 60
 Gly Val Leu Asp Glu Val Ser Thr Gly Thr Gly Lys Val Ile Pro Ser
 65 70 75 80
 Ser Arg Glu Gln Val Leu Gln Ser Leu Asp Gly Gly Ile Leu Thr Glu
 85 90 95
 Leu Asn Val His Glu Gly Asp Gln Val Gln Ala Gly Gln Val Leu Ala
 100 105 110
 Arg Leu Asp Pro Thr Arg Ser Glu Ser Asn Val Gly Glu Ser Ala Ala
 115 120 125
 Arg Tyr Arg Ala Ser Leu Ala Ser Ser Ala Arg Leu Tyr Ala Glu Val
 130 135 140
 Asn Asp Leu Pro Leu Lys Phe Pro Pro Ser Leu Glu Lys Trp Thr Asp
 145 150 155 160
 Leu Thr Ala Ala Glu Thr Arg Leu Tyr Asn Ser Arg Arg Ala Gln Leu
 165 170 175
 Glu Asp Thr Gln Arg Glu Leu Arg Ser Ala Leu Ala Leu Ala Asn Lys
 180 185 190
 Glu Leu Ala Ile Thr Gln Arg Leu Val Lys Thr Gly Ala Ala Ser His
 195 200 205
 Val Glu Val Leu Arg Leu Gln Arg Gln Lys Ser Asp Leu Glu Leu Lys
 210 215 220
 Leu Thr Asp Val Arg Ser Gln Tyr Tyr Val Gln Ala Arg Glu Ala Leu
 225 230 235 240
 Ser Lys Ala Asn Ala Glu Val Asp Met Val Ser Ala Ile Leu Lys Gly
 245 250 255
 Arg Glu Asp Ser Val Thr Arg Leu Thr Val Lys Ser Pro Val Arg Gly
 260 265 270
 Ile Val Lys Asn Ile Lys Val Thr Thr Ile Gly Gly Val Ile Pro Pro
 275 280 285
 Asn Gly Glu Leu Met Glu Ile Val Pro Val Asp Asp His Leu Leu Ile
 290 295 300
 Glu Thr Arg Leu Ser Pro Arg Asp Ile Ala Phe Ile His Pro Asn Gln
 305 310 315 320
 Glu Ala Leu Val Lys Ile Thr Ala Tyr Asp Tyr Ala Ile Tyr Gly Gly
 325 330 335
 Leu His Gly Val Val Glu Thr Ile Ser Pro Asp Thr Ile Gln Asp Glu
 340 345 350
 Ala Lys Pro Glu Val Phe Tyr Tyr Arg Val Phe Ile Arg Thr Ser Gln
 355 360 365
 Asp Tyr Leu Val Asn Lys Ala Gly Arg His Phe Ser Ile Val Pro Gly
 370 375 380
 Met Ile Ala Thr Val Asp Ile Lys Thr Gly Glu Lys Thr Val Leu Asp
 385 390 395 400
 Tyr Met Ile Lys Pro Phe Asn Arg Ala Lys Glu Ala Leu Arg Glu Arg
 405 410 415

<210> 10121

<211> 594

<212> PRT

<213> Enterobacter cloacae

<400> 10121

Ala Pro Ser Ser Ala Gly Gln Lys Asn Cys Ser Asp Phe Ala Ser Ser
 1 5 10 15
 Thr Leu Leu Tyr Ile Lys Pro Val Tyr Thr Val Tyr Lys His Ser Tyr
 20 25 30
 Gly Phe Ser Tyr Arg Lys Thr Ile Met Leu Ala Gln Leu Thr Ile Ser
 35 40 45

Asn Phe Ala Ile Val Arg Glu Leu Glu Ile Asp Phe His Ser Gly Met
 50 55 60
 Thr Ala Ile Thr Gly Glu Thr Gly Ala Gly Lys Ser Ile Ala Ile Asp
 65 70 75 80
 Ala Leu Gly Leu Cys Leu Gly Gly Arg Ala Glu Gly Asp Met Val Arg
 85 90 95
 Thr Gly Ala Ala Arg Ala Asp Leu Cys Ala Arg Phe Ser Leu Lys Asp
 100 105 110
 Thr Pro Ala Ala Leu Arg Trp Leu Glu Ala Asn Gln Leu Glu Asp Gly
 115 120 125
 Arg Glu Cys Leu Leu Arg Arg Val Ile Ser Ser Asp Gly Arg Ser Arg
 130 135 140
 Gly Phe Ile Asn Gly Thr Ala Val Pro Leu Ser Gln Leu Arg Glu Leu
 145 150 155 160
 Gly Gln Leu Leu Ile Gln Ile His Gly Gln His Ala His Gln Gln Leu
 165 170 175
 Ile Lys Pro Glu Gln Gln Lys Ala Leu Leu Asp Gly Tyr Ala Gly Glu
 180 185 190
 Tyr Ala Leu Thr Gln Leu Met Ala Glu His Tyr Arg Gln Trp His Gln
 195 200 205
 Ser Cys Arg Glu Leu Ala Gln His Gln Gln Gln Ser Gln Glu Arg Thr
 210 215 220
 Ala Arg Ala Glu Leu Leu Glu Tyr Gln Leu Lys Glu Leu Asn Glu Phe
 225 230 235 240
 Asn Pro Gln Ala Gly Glu Phe Glu Gln Ile Asp Glu Glu Tyr Lys Arg
 245 250 255
 Leu Ala Asn Ser Gly Gln Leu Leu Ser Thr Ser Gln Asn Ala Leu Asn
 260 265 270
 Met Leu Ala Asp Gly Glu Asp Val Asn Leu Gln Ser Gln Leu Tyr Asn
 275 280 285
 Val Arg Gln Leu Val Thr Glu Leu Thr Gly Met Asp Asn Lys Leu Ser
 290 295 300
 Gly Val Leu Glu Met Leu Glu Glu Ala Ala Ile Gln Ile Ser Glu Ala
 305 310 315 320
 Gly Asp Glu Leu Arg His Tyr Cys Glu Arg Leu Asp Leu Asp Pro Asn
 325 330 335
 Arg Leu Phe Glu Leu Glu Gln Arg Ile Ser Arg Gln Ile Ser Leu Ala
 340 345 350
 Arg Lys His His Val Thr Pro Glu Glu Leu Pro Asn Tyr Tyr Gln Ser
 355 360 365
 Leu Leu Glu Glu Gln Gln Gln Leu Asp Asp Gln Ala Asp Ser Leu Glu
 370 375 380
 Thr Leu Ser Leu Ala Val Asn Leu His His Gln Gln Ala Leu Glu Thr
 385 390 395 400
 Ala Lys Arg Leu His Asp Val Arg Gln His Tyr Ala Gln Glu Leu Ser
 405 410 415
 Gln His Ile Thr Asp Ser Met His Thr Leu Ala Met Pro His Gly Val
 420 425 430
 Phe Thr Ile Asp Val Arg Phe Glu Glu Asn His Leu Thr Ala Glu Gly
 435 440 445
 Ala Asp Arg Val Glu Phe Arg Val Thr Thr Asn Pro Gly Gln Pro Leu
 450 455 460
 Gln Ala Ile Ser Lys Val Ala Ser Gly Gly Glu Leu Ser Arg Ile Ala
 465 470 475 480
 Leu Ala Ile Gln Val Ile Thr Ala Arg Lys Met Glu Thr Pro Ala Leu
 485 490 495
 Ile Phe Asp Glu Val Asp Val Gly Ile Ser Gly Pro Thr Ala Ala Val
 500 505 510
 Val Gly Lys Leu Leu Arg Gln Leu Gly Glu Ser Thr Gln Val Met Cys
 515 520 525
 Val Thr His Leu Pro Gln Val Ala Gly Cys Gly His His His Phe Ile

530		535		540	
Val Ser Lys Glu Thr Asp	Gly Glu Met Thr Glu	Thr His Met Lys Pro			
545	550	555		560	
Leu Asp Lys Arg Ser Arg	Leu Gln Glu Leu Ala	Arg Leu Leu Gly Gly			
	565	570		575	
Ser Glu Val Thr Arg Asn	Thr Leu Ala Asn Ala	Lys Glu Leu Leu Ala			
	580	585		590	
Ala					

<210> 10122

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10122

Ala Ala Tyr Cys Ser	Gly Pro Lys Arg	Asn Gln Ile Thr	Met Arg Cys
1	5	10	15
Lys Thr Leu Thr Ala	Ala Ala Val Leu	Leu Met Leu Thr	Ala Gly
	20	25	30
Cys Ser Thr Leu Glu	Lys Val Val Tyr	Arg Pro Asp Ile	Asn Gln Gly
	35	40	45
Asn Tyr Leu Thr Pro	Asn Asp Val Ser	Lys Ile Arg Val	Gly Met Thr
	50	55	60
Gln Gln Gln Val Ala	Tyr Ala Leu Gly	Thr Pro Met Met	Ser Asp Pro
	65	70	75
Phe Gly Thr Asn Thr	Trp Phe Tyr Val	Phe Arg Gln Gln	Pro Gly His
	85	90	95
Glu Asp Val Thr Gln	Gln Thr Leu Thr	Phe Ser Ser Ala	Gly
	100	105	110
Val Leu Thr Asn Ile	Asp Asn Lys Pro	Ala Leu Thr Lys	
	115	120	125

<210> 10123

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 10123

Asp Arg Ala Ala Ala	Ser Val Asp Asn	Gly Val His Thr	Val Arg
1	5	10	15
Lys Asn Ser Leu Lys	Thr Ala Phe Leu	Glu Asn Thr Pro	Ile Val Asn
	20	25	30
Gly Trp Leu Ala Ile	Pro Ser Gly Tyr	Ser Ala Glu Ile	Met Gly His
	35	40	45
Gln Gly Tyr Asp Ala	Val Thr Val Asp	Leu Gln His Gly	Met Ile Asp
	50	55	60
Phe Ala Ser Ala Leu	Ser Met Leu Gln	Ala Leu Ser Ala	Thr Pro Ala
	65	70	75
Val Pro Leu Val Arg	Val Ala Asp Asn	Asp Pro Ala Gln	Ile Met Arg
	85	90	95
Val Leu Asp Ala Gly	Ala Tyr Gly Val	Ile Cys Pro Met	Ile Ser Ser
	100	105	110
Ala Glu Gln Ala Arg	Arg Phe Val Ala	Ala Cys Arg Tyr	Pro Pro Leu
	115	120	125
Gly Val Arg Ser Phe	Gly Pro Ala Arg	Gly Leu Leu Tyr	Gly Gly Ser
	130	135	140
Asp Tyr Pro Gln His	Ala Asn Asp Glu	Ile Leu Thr Leu	Ala Met Ile
	145	150	155
Glu Thr Arg Gln Gly	Leu Ala Asp Leu	Asp Ala Ile Leu	Asp Thr Glu
	165	170	175

Gly Leu Asp Gly Val Phe Ile Gly Pro Asn Asp Leu Ser Leu Thr Leu
 180 185 190
 Thr Gly Ser Ala Ser Ala Glu Ser Gln His Pro Glu Met Leu Ala Ala
 195 200 205
 Ile Glu Arg Val Ile His Cys Cys Arg Gln Gln Gln Lys Ile Ala Gly
 210 215 220
 Ile Phe Cys Thr Ser Gly Ala Ala Ala Ala Arg Ile Ala Gln Gly
 225 230 235 240
 Phe Gln Phe Val Thr Pro Ala Asn Asp Val Met Gln Leu Gly Arg Ala
 245 250 255
 Ser Arg Glu Ala Ile Ala Leu Ala Arg Gly Asn Ala Ile Pro Thr Thr
 260 265 270
 Gly Ala Ser Gly Tyr
 275

<210> 10124

<211> 650

<212> PRT

<213> Enterobacter cloacae

<400> 10124

Pro Leu Trp Asn Tyr Phe Leu Arg His Leu His Leu Leu Tyr Phe Leu
 1 5 10 15
 Phe Thr Asp Val Ile Phe Arg Phe Ala Leu Pro Val Ser Asn Gly Ser
 20 25 30
 Val Ile Asn Asn Tyr Arg Gly Asn Arg Ile Ser Phe Ser Met Asp Phe
 35 40 45
 Tyr Phe Thr Arg Phe Glu His Arg Gln Pro Pro Glu Pro Leu Lys Thr
 50 55 60
 Pro Arg Trp Val Met Leu Thr Trp Gln Val Leu Ala Val Ala Ser Leu
 65 70 75 80
 Ile Leu Gly Ala Asn Tyr Ile Tyr Trp Arg Trp Thr Ala Ser Leu Asn
 85 90 95
 Thr Asp Ala Leu Trp Tyr Ala Ile Pro Leu Val Leu Ala Glu Thr Leu
 100 105 110
 Ala Trp Ile Gly Thr Val Leu Phe Thr Ile Asn Leu Trp Lys Glu Asp
 115 120 125
 Asp Pro Pro Gln Asn Pro Pro Pro Ile Glu Ile Asn Asp Cys Leu Arg
 130 135 140
 Ser Glu Asp Ala Glu Ala Ser Arg Pro Ile Lys Val Asp Leu Phe Ile
 145 150 155 160
 Ala Thr Tyr Ser Glu Asp Val Glu Leu Val Arg Leu Ser Ile Arg Asp
 165 170 175
 Ala Met Lys Met Asp Tyr Pro Gly Pro Leu Asp Tyr Lys Val His Val
 180 185 190
 Leu Asp Asp Gly Arg Arg Pro Glu Met Lys Ala Val Cys Asp Gln Glu
 195 200 205
 Gly Ala Asn Tyr Ile Ser Arg Gln Thr Asn Ile Gly Phe Lys Ala Gly
 210 215 220
 Asn Leu Arg Asn Gly Leu Glu Gln Thr Asp Gly Asp Phe Leu Ile Ile
 225 230 235 240
 Cys Asp Ala Asp Thr Arg Val Phe Pro Thr Leu Leu Ser His Thr Leu
 245 250 255
 Gly Tyr Phe Arg Asp Pro Asp Val Ala Trp Val Gln Thr Pro Gln Trp
 260 265 270
 Phe Phe Asp Leu Pro Glu Gly Glu Asn Leu Ala Arg Trp Leu Gly Arg
 275 280 285
 Lys Ala Gly Lys Thr Gly Tyr Gly Leu Gly Trp Leu Ala Gln Lys Phe
 290 295 300
 Ile Gly Pro Val Thr Ile Gly Arg Asp Pro Phe Asn Asp Pro Arg
 305 310 315 320

Met Phe Tyr Asp Val Ile Leu Arg Arg Arg Asn Trp Ala Asn Ala Ala
 325 330 335
 Phe Cys Cys Gly Ala Ala Ser Ile His Arg Arg Glu Ala Val Met Gln
 340 345 350
 Ala Ala Leu Arg Ser Tyr Val Trp Thr Thr Glu Glu Glu Ile Asp Arg
 355 360 365
 His Thr Arg Asp Ile Arg Asp Pro Val Met Arg Glu Thr Leu Gln Asp
 370 375 380
 Ala Met Arg Pro His Val Ala Phe Asp Thr Glu Leu Thr Pro Tyr Lys
 385 390 400
 Phe His Val Ser Glu Asp Ile Tyr Thr Ser Ile Leu Leu His Gly Asp
 405 410 415
 Ala Ala Arg Arg Trp Arg Ser Val Met His Pro Arg Ile Glu Ser Lys
 420 425 430
 Met Leu Ser Pro Gln Asp Met Leu Thr Trp Met Ile Gln Arg Phe Lys
 435 440 445
 Tyr Ala Ala Gly Ser Leu Asp Ile Leu Phe His Asp Asn Ile Phe Ser
 450 455 460
 Arg Arg Arg Phe Lys Leu Ser Leu Pro Gln Thr Leu Met Tyr Ala Thr
 465 470 475
 Thr Phe Trp Ser Tyr Leu Ala Cys Val Trp Asn Thr Val Phe Leu Ile
 485 490 495
 Ser Pro Ile Val Tyr Leu Phe Thr Gly Ile Pro Pro Val Ser Ala Trp
 500 505 510
 Ser Glu Pro Phe Tyr Leu His Phe Leu Pro Phe Phe Ile Val Ser Glu
 515 520 525
 Leu Ala Phe Met Phe Gly Thr Trp Gly Ile Ser Ala Trp Asp Gly Arg
 530 535 540
 Ala Ser Tyr Leu Ser Phe Phe Ser Met Asn Leu Arg Ala Leu Asn Thr
 545 550 555
 Val Leu Arg Gly Glu Gln Ile Lys Phe His Val Thr Pro Lys Glu Arg
 565 570 575
 Gln Thr Gly Arg Phe Leu Tyr Leu Val Lys Pro Gln Ile Ala Ile Val
 580 585 590
 Val Leu Thr Leu Ala Gly Leu Ile Trp Gly Gly Ile Gln Val Ala Arg
 595 600 605
 Gly Gln Val Asp Asp Pro Ser Gly Tyr Val Ile Asn Ile Phe Trp Gly
 610 615 620
 Ala Val Asn Ile Ala Ala Met Leu Pro Leu Ile Phe Ala Ala Met Trp
 625 630 635
 Thr Pro Ala Glu Glu Glu Val Ser Glu
 645 650

<210> 10125

<211> 909

<212> PRT

<213> Enterobacter cloacae

<400> 10125

Val Thr Met Arg Ala Thr Ser Arg Phe Asp Leu Asn Ala Leu Pro Val
 1 5 10 15
 Gly Val Met Ile Tyr Asp Pro Ala Glu His Leu Leu Ala Trp Asn Asp
 20 25 30
 Gln Ile Ser Arg Phe Tyr Pro Val Ile Ala Pro Trp Leu Ile Ala Gly
 35 40 45
 Ala Ser Leu Glu Ser Leu Ala Glu Lys Phe Ile Asp Ala Gly Tyr Asn
 50 55 60
 Ile Asp Ser Thr Arg Arg Arg Thr Leu Arg Glu Ala Ile Val Arg Asn
 65 70 75 80
 Cys Arg Gln Ser Ser His Arg Glu Val Arg Gln Ser Gly Asn Arg Arg
 85 90 95

Leu Tyr Val Gln His Gln Arg Leu Ala Asp Gly Gly Ile Leu Ser Leu
 100 105 110
 His Thr Asp Ile Thr Glu Leu Asp Asp Ala Gln Arg Ser Arg Gln Gln
 115 120 125
 Leu His Asp Asp Phe Leu Leu Thr Ala Glu Ser Ile Gln Ile Gly Ile
 130 135 140
 Trp Asn Trp Gln Val Ser His Asp Ser Leu Glu Val Asn Asp Thr Leu
 145 150 155 160
 Leu Ala Met Val Gly Gln Ser Arg Thr Gln Leu His Tyr Pro Leu Arg
 165 170 175
 Phe Leu Leu Asn Leu Val His Glu Glu Asp Arg Ala Val Leu Arg Asn
 180 185 190
 Ala Met Ile Ala Ser Arg Gln Glu His Met Pro Val Phe Glu Ser Glu
 195 200 205
 Ile Arg Val Gln His Ala Thr Gln Gly Trp Arg Trp Met Leu Val Ser
 210 215 220
 Gly Gln Val Val Thr Leu Ser Met Gln Gln Gln Ala Glu Arg Val Ile
 225 230 235 240
 Gly Thr Leu Gln Asp Ile Thr Arg Arg Lys Glu Ala Glu Leu Leu Ala
 245 250 255
 Ile Glu Ala Ala Lys Val Ala Arg Glu Ala Asn Glu Ala Lys Ser Ala
 260 265 270
 Phe Leu Ala Asn Met Ser His Glu Ile Arg Thr Pro Met Asn Gly Ile
 275 280 285
 Leu Gly Met Thr Gln Leu Cys Leu Asp Thr Gln Leu Thr Pro Glu Gln
 290 295 300
 Arg Glu Tyr Leu Ser Leu Val Met Ser Ser Ala Gln Ser Leu Leu His
 305 310 315 320
 Ile Ile Asn Asp Ile Leu Asp Phe Ser Arg Ile Glu Ser Gly Lys Met
 325 330 335
 Thr Val Asp Thr Glu Pro Leu Glu Ile Arg Pro Phe Val Gln Ser Leu
 340 345 350
 Ile Arg Pro His Met Pro Ser Ala Ser Glu Lys Gly Ile Glu Leu Leu
 355 360 365
 Val Asp Ile Ala Pro Gly Val Pro Glu Val Leu Ile Val Asp Gly Pro
 370 375 380
 Arg Leu Arg Gln Ile Leu Thr Asn Leu Leu Gly Asn Ala Leu Lys Phe
 385 390 395 400
 Thr His His Gly Glu Val Met Leu Ala Ile Glu Pro Thr Glu Ser Glu
 405 410 415
 Gly His Trp Arg Phe Arg Ile Arg Asp Ser Gly Ile Gly Ile Pro Met
 420 425 430
 Glu Lys Gln Lys Ala Ile Phe Glu Ala Phe Ser Gln Ala Asp Ser Ser
 435 440 445
 Thr Thr Arg Arg Tyr Gly Gly Thr Gly Leu Gly Leu Thr Ile Ser Ala
 450 455 460
 Arg Leu Val Ser Leu Met Gly Gly Glu Leu Thr Val Gln Ser Glu Pro
 465 470 475 480
 Gly Glu Gly Ser Glu Phe Ala Phe Thr Leu Pro Leu Glu Gly Gln Leu
 485 490 495
 Ala Val Ser Ala Thr Asp Ala Pro Val Ala Arg Phe Asn Gly Glu Ser
 500 505 510
 Val Leu Val Val Asp Asp Asn Ser Thr Asn Leu Arg Leu Leu Asp Thr
 515 520 525
 Met Leu Arg Gln Met Gly Leu Thr Pro Thr Cys Val Asn Asn Ala Gly
 530 535 540
 Glu Ala Leu Ser Leu Thr Ala Lys Arg Gly Tyr Trp Pro Leu Ile Leu
 545 550 555 560
 Leu Asp Ala Gln Met Pro Asp Met Asp Gly Val Ser Leu Ala Ile Glu
 565 570 575
 Leu Ser Val Met Pro Gln Ala Glu Gln Ser His Ile Ile Met Leu Ser

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      580                      585                      590
Ser Met Ser Ser Arg His Phe Asp Ala Asn Met Leu Lys Arg Ile Gly Val
      595                      600                      605
Ala His Tyr Leu His Lys Pro Val Ala Gln Arg Glu Leu Tyr Gln Thr
      610                      615                      620
Ile Ala Ser Val Leu Ala Pro Ala Pro Leu Ala Ser Pro Thr Ala Val
      625                      630                      635
Pro Ala Ser Ala Leu Val Thr Ala Pro Val Thr Ala Pro Val Thr Ala
      645                      650                      655
Gln Ala Ser Leu Arg Ile Leu Leu Ala Glu Asp Asn Leu Val Asn Gln
      660                      665                      670
Lys Val Ala Arg Arg Leu Leu Glu Gln Leu Gly His Arg Cys Glu Val
      675                      680                      685
Val Ser Asn Gly Arg Glu Ala Leu Glu Arg Trp Arg Glu Gln Ser Trp
      690                      695                      700
Asp Leu Met Leu Val Asp Leu Gln Met Pro Glu Met Asp Gly Glu Thr
      705                      710                      715
Ala Ile Arg Leu Leu Arg Glu Glu Thr Leu Thr Arg Gly Arg Ser His
      725                      730                      735
Gln Pro Ala Ile Ala Met Thr Ala His Ala Met Gln Gly Asp Lys Ala
      740                      745                      750
Arg Cys Leu Ala Met Gly Phe Asp Gly Tyr Ile Ala Lys Pro Val Ser
      755                      760                      765
Gln Glu Ala Leu Arg Glu Glu Ile Ala His Val Leu Ala Gly Glu Asp
      770                      775                      780
Lys Gly Leu Pro Asp Glu Ala Gln Leu Leu Lys Gln Cys Ala Asp Asp
      785                      790                      795
Pro Glu Leu Val Asn Glu Leu Leu Ala Leu Phe Gly Asn Gly Leu Asp
      805                      810                      815
Glu Ala Val Ala Ala Met Ala Leu Asn Ile Ala His Asn Asp Arg Asp
      820                      825                      830
Ala Leu Arg Arg Ala Ala His Lys Leu Arg Gly Glu Ala Val Thr Leu
      835                      840                      845
Gly Phe Ile Arg Leu Ser Glu Val Leu Gln Gln Leu Glu Ser Gln Ala
      850                      855                      860
Val Ser Leu Asn Gln Thr Gly Leu Ser Val Leu His Gly Glu Leu Ile
      865                      870                      875
Glu Glu Ala Arg Arg Ser Ala Ala Trp Leu Arg Arg Ala Gln Glu
      885                      890                      895
Val Lys Asp Asp Gln Ala Ser Ser Ala Ala Gly Asn
      900                      905

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<210> 10126

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 10126

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Ala Met Asn Ala Gly Tyr Pro Thr Met Leu Leu Ile Pro Gly Met Ser
1                      5                      10                      15
Ala Phe Gln Arg Val Asn Glu Pro Ala Pro Gly Leu Ala Gly Arg Met
      20                      25                      30
Phe Phe Gln Val His Cys Pro His Gly Lys Thr Gly Pro Asn Val Gly
      35                      40                      45
Leu His Leu His Val Gln Arg Asn Pro Phe Ser Arg Cys Glu Ile Phe
      50                      55                      60
Leu Asp His Trp Gln Arg His Ile Thr Pro Ser Val Glu Leu Ala
      65                      70                      75
Pro Gln Phe Asn Ile Arg Val Thr Ser Leu Gln Pro Gly Ala Val Glu
      85                      90                      95
Ser Glu Leu Phe Glu His Ile Ser Asp Lys Asn Tyr Arg Ala Gln Met

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100 105 110
 Glu Gln Leu Lys Glu Lys Met Thr Phe Leu Lys Ala Asp Asp Val Ala
 115 120 125
 Asp Ser Ile Pro Tyr Val Leu Gln Ala Pro Glu His Val Asn Val Ala
 130 135 140
 Glu Leu Phe Ile Met Pro Glu Gln Pro Trp
 145 150 155

<210> 10127

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10127

Tyr Tyr Ser Gln Thr Lys Arg Thr Cys Ala Gln Cys Arg Ser Ala Leu
 1 5 10 15
 Leu Ser Thr Gln Leu Gln Gly Leu Glu Leu Thr Ser Ile Met Ile Asn
 20 25 30
 His Phe Arg Asp Gln Trp Leu Glu Asp Phe Phe Leu Tyr Gly Arg Ser
 35 40 45
 Ser Asn Val Ile Pro Leu Asn Leu Glu Thr Ala Leu Ala Arg Lys Leu
 50 55 60
 Asp Ile Ile Asn Ala Ala Met Ser His Leu Asp Leu Arg Ser Pro Pro
 65 70 75 80
 Gly Asn Met Tyr Glu Ala Leu Ser Pro Pro Leu Lys Gly Tyr Ser Ser
 85 90 95
 Ile Arg Val Asn Arg Gln Tyr Arg Leu Val Phe Arg Trp Ser Glu Gly
 100 105 110
 Lys Ala Asp Asp Leu Tyr Leu Ser Pro His Lys Tyr Thr Gln His Lys
 115 120 125

<210> 10128

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 10128

Arg Pro Met Pro Arg Ser Ala Cys Ala Ser Ala Pro Ala Pro Cys Gln
 1 5 10 15
 Arg Gln Cys Leu Ser Pro Ala Pro Ala Asn Arg Arg Arg Ser Pro Cys
 20 25 30
 Pro Ala Cys Arg Leu Pro Cys Arg Thr Ser Ala Gly Gly Cys Arg Pro
 35 40 45
 Arg Arg Arg Ser Pro Ala Pro Leu Gln Glu Arg Ser Pro Leu Gln Ser
 50 55 60
 Gly Arg Arg Asn Arg Gln Trp Arg Ser Gly Arg Glu Arg Ala Lys Asn
 65 70 75 80
 Gly His Ala Pro Pro Thr Pro Ala Arg Pro Ala
 85 90

<210> 10129

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10129

Ala Met Ser Ala Gln Asp Arg Gln Thr Leu Ser Leu Pro Ser Leu Arg
 1 5 10 15
 Asn Leu Gln Ala Phe Ile Ala Val Ala Asn Ala Leu Ser Ile His Gln

	20		25		30
Ala	Ala	Glu	Leu	Asn	Val
	35			40	
Ala	Ser	Leu	Glu	Ser	Trp
	50			55	
Lys	Gly	Val	Gln	Leu	Thr
	65			70	
Ser	Ala	Ala	Met	Ser	Ala
			85		
Glu	Lys	Asp	Asn	Ala	Val
			100		
Leu	Ser	Trp	Leu	Leu	Arg
			115		
Asp	Ile	Thr	Ile	Asn	Leu
			130		
Arg	Asp	Asn	Ile	Asp	Ile
			145		
Ala	Tyr	Arg	Val	Met	Thr
			165		
Ser	Pro	Asp	Tyr	Ala	Glu
			180		
Leu	Gln	Gln	Ser	Leu	Ile
			195		
Lys	Trp	Phe	Ala	Trp	His
			210		
Leu	Ser	Phe	Asp	Arg	Ser
			225		
Leu	Gly	Phe	Ile	Leu	Glu
			245		
Asp	Gly	Ser	Leu	Val	Gln
			260		
Asn	Ala	His	His	Leu	Val
			275		
Ile	Gln	Gln	Phe	Val	Glu
			290		
Tyr	His	Leu			
			305		

<210> 10130

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 10130

Lys	Val	Arg	Ser	Gly	Ala	Leu	Thr	Pro	Ala	Leu	Ser	His	Arg	Glu	Arg
				5					10					15	
Gly	Ile	Asn	Arg	Gly	Ile	Gln	His	Met	Leu	His	His	Lys	His	Pro	Ala
				20				25					30		
His	His	Gln	Val	Gly	Arg	Asp	Lys	His	Gln	Gly	Thr	Ala	Leu	Gly	Lys
				35				40				45			
Ala	His	His	Arg	Gly	Val	Asp	His	Ala	Lys	Gln	Arg	Gln	Gln	Arg	Ala
				50				55				60			
Ser	Cys	Gly	Gly	Asp	Gly	Pro	Ala	Gln	Arg	Phe	Val	Glu	Asp	Gly	Glu
				65				70		75				80	
Asp	Gly	Asp	Thr	Ala	Pro	Glu	His	Ala	Gly	Glu	Arg	Arg	Ala	Val	Ala
				85				90					95		
Glu	Met	His	Gln	Ala	Phe	Val	Val	Asp	Thr	Leu	Ala	Val	Gln	His	Val
				100				105					110		
Gly	Ala	Asp	Phe	Arg	Arg	Ala	Gly	Pro	Arg	Gly	Ala	His	His	Ala	Val
				115				120					125		
His	His	Gly	Gln	Arg	Pro	Val	Gly	Asp	Pro	Arg	Glu	Gln	Ala	Asp	Glu

130	135	140
Asp Asn Gly His Leu His	Phe Arg Gly Phe	Pro His His Leu Val Gly
145	150	155
Gly Asp Asp Ala Asp Lys His Gln Asn Arg His Asp Gly Gly His Arg		160
	165	170
Tyr Asp Gly Glu His Lys Gly Pro Gln Pro Glu Gln Arg His Asp Glu		175
	180	185
His Gly His Ala Gly Arg Gln Gly Val Ala Asp Ala Gly Ala His Arg		190
	195	200
Phe Pro Ala Arg Met Ala Asp Val Asp Arg Asp Arg Glu Arg Ile Ala		205
	210	215
His Gln Ala Ala Glu His Arg Gly Gln Thr Val Arg Gln His Tyr Leu		220
	225	230
Ala Gly Arg Val Phe Ile Pro Cys Arg Val Gly Ala Phe Asp Val Leu		235
	245	250
Gln Val Lys Asp Val Val Arg Gln Pro Gln Arg Tyr Gly Gly Arg Gln		255
	260	265
Ile Arg Gln Arg Val Arg Gln Pro Leu His Lys Ala Val His Val His		270
	275	285
Phe Arg Arg Val Lys Ala Glu Gly		
290	295	

<210> 10131

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 10131

Cys Asn Ala Ser Val Lys Ile Cys Ser Lys Leu Met Val Thr Arg Ser	
1	5
His Asn Met Asn Ser Ile Phe Thr Glu Asn Leu Leu Ala Phe Thr	10
	20
Thr Ala Ala Arg Phe Gly Ser Phe Ser Lys Ala Ala Glu Leu Gly	25
	30
Val Thr Thr Ser Ala Ile Ser Tyr Thr Ile Lys Arg Met Glu Thr Gly	35
	40
Leu Asp Val Val Leu Phe Val Arg Asn Thr Arg Ser Ile Glu Leu Thr	45
65	50
Glu Ser Gly Phe Tyr Phe Tyr Arg Lys Ala Thr Asp Leu Leu Asn Asp	55
	60
Phe His Ala Ile Lys Arg Gly Ile Asp Thr Ile Ser Gln Gly Ile Glu	65
	70
Thr Arg Val Arg Ile Cys Ile Asn Gln Leu Leu Tyr Thr Pro Arg His	75
	80
Thr Ala Arg Leu Leu Gln Val Leu Lys Lys Gln Phe Pro Thr Cys Gln	85
	90
Ile Thr Val Thr Thr Glu Val Tyr Asn Gly Val Trp Asp Ser Ile Ile	95
145	100
Asn Asn Gln Ala Asn Ile Ala Ile Gly Ala Pro Asp Thr Leu Leu Asp	105
	110
Gly Gly Gly Ile Asp Tyr Thr Glu Ile Gly Ala Ile Arg Trp Val Phe	115
	120
Ala Ile Ala Pro Thr His Pro Leu Ala Phe Ala Pro Glu Pro Ile Ser	125
	130
Glu Ser Gln Leu Arg Leu Tyr Pro Asn Ile Met Val Glu Asp Thr Ala	135
	140
His Thr Ile Asn Lys Lys Val Gly Trp Leu Leu His Gly Gln Glu Ala	145
225	150
Ile Leu Val Pro Asp Phe Asn Thr Lys Cys Gln Cys Gln Ile Leu Gly	155
	160
Glu Gly Ile Gly Phe Leu Pro Glu Tyr Met Thr Arg Glu Ala Val Glu	165
	170
	175
	180
	185
	190
	195
	200
	205
	210
	215
	220
	225
	230
	235
	240
	245
	250
	255

260 265 270
 Asp Gly Leu Leu Val Thr Arg Arg Ile Asn Asn Pro Arg Gln Asp Ser
 275 280 285
 Arg Met Leu Leu Ala Thr Gln His Ala Ala Thr Gly Gln Val Thr Arg
 290 295 300
 Trp Ile Lys Gln Gln Phe Gly Pro Glu Gly Val Leu Thr Arg Ile Tyr
 305 310 315 320
 Ser Asp Leu Leu Trp Arg Thr
 325

<210> 10132

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 10132

Asn Gln Ile Thr Asp Gly Phe Thr Thr Leu Met Thr Lys Lys Lys Ala
 1 5 10 15
 His Lys Pro Gly Ser Ala Thr Ile Ala Leu Asn Lys Arg Ala Arg His
 20 25 30
 Glu Tyr Phe Ile Glu Glu Glu Phe Glu Ala Gly Leu Ala Leu Gln Gly
 35 40 45
 Trp Glu Val Lys Ser Leu Arg Ala Gly Lys Ala Asn Ile Gly Asp Ser
 50 55 60
 Tyr Val Ile Leu Lys Asp Gly Glu Ala Phe Leu Phe Gly Ala Asn Phe
 65 70 75 80
 Thr Pro Leu Thr Val Ala Ser Ser His Tyr Val Cys Asp Pro Thr Arg
 85 90 95
 Thr Arg Lys Leu Leu Leu Asn Lys Arg Glu Leu Glu Ser Leu Tyr Gly
 100 105 110
 Arg Ile Asn Arg Glu Gly Phe Thr Val Val Ala Leu Ser Leu Tyr Trp
 115 120 125
 Lys Asn Ala Trp Cys Lys Val Lys Ile Gly Val Ala Lys Gly Lys Lys
 130 135 140
 Gln His Asp Lys Arg Thr Asp Leu Lys Ala Arg Glu Trp Gln Leu Asp
 145 150 155 160
 Lys Ala Arg Ile Met Lys Asn Ala Gly Arg
 165 170

<210> 10133

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 10133

Met Gly Pro Thr Thr Lys Gly Pro Lys Ile Glu Gly Pro Lys Met Ala
 1 5 10 15
 Lys Ile Ala Lys Lys Leu Thr Asp Thr Glu Ile Lys Ser Thr Lys Pro
 20 25 30
 Ala Asp Lys Glu Ile Asn Leu Phe Asp Gly Asp Gly Leu Ile Leu Arg
 35 40 45
 Ile Ala Pro Leu Thr Lys Gly Gly Lys Lys Asn Trp Tyr Phe Arg Tyr
 50 55 60
 Ala Val Pro Val Ser Lys Lys Arg Thr Lys Met Ser Leu Gly Thr Tyr
 65 70 75 80
 Pro His Leu Thr Leu Ala Arg Ala Arg Thr Leu Arg Asp Glu Tyr Leu
 85 90 95
 Ser Leu Leu Ala Asn Gly Ile Asp Pro Gln Val His Asn Ser Asn Lys
 100 105 110
 Ala Asn Ala Leu Lys Asn Ala Thr Glu His Thr Leu Gln Ala Val Ala
 115 120 125

Arg Lys Trp Leu Asp Glu Lys Val Lys Thr Ser Gly Ile Ser Gln Asp
 130 135 140
 His Ala Glu Asp Ile Trp Arg Ser Leu Glu Arg Asn Ile Phe Pro Gly
 145 150 155 160
 Leu Gly Asn Val Pro Val Asn Glu Ile Arg Pro Lys Leu Leu Lys Gln
 165 170 175
 His Leu Asp Pro Ile Glu Gln Arg Gly Val Leu Glu Thr Glu Ser Pro
 180 185 190
 Arg Ile Ile
 195

<210> 10134

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 10134

Arg Arg Leu Asp Gly Tyr Val Arg Asp Ala Met Glu Tyr Pro Leu Leu
 1 5 10 15
 Asp Asn Thr Asp Leu Pro Leu Val Leu Gly Gly Thr Leu Cys Asn
 20 25 30
 Val Arg Leu Trp Gln Pro Val Ile Glu Arg Leu Asn Ile Ser Ala Val
 35 40 45
 Leu Cys Ile Thr Leu Thr Gly Ala Glu Ser Ala Pro Gln Ala Ser Arg
 50 55 60
 Arg Leu Leu Lys Val Leu Pro Pro Arg Phe Leu Leu Ala Gly Phe Ser
 65 70 75 80
 Leu Gly Ala Ile Val Ala Leu Gln Met Ala Ala Asp Ala Pro Glu Arg
 85 90 95
 Val Asn Gly Leu Thr Leu Ile Ser Val Asn Pro Leu Pro Val Ala Pro
 100 105 110
 Asp Thr Leu Ala Ser Arg Arg Glu Ala Val His Thr Ala Gln Ala His
 115 120 125
 Gly Leu Ala Asp Trp Leu Val Ser Ser Leu Trp Gln Ser Tyr Val Ala
 130 135 140
 Pro Ser Arg Leu Ser Asp Arg Ile Leu Gln Glu Thr Ile Cys Arg Met
 145 150 155 160
 Ala Gln Glu Cys Gly Ile Glu Thr Phe Ala Gly Gln Thr Glu Met Ala
 165 170 175
 Ile His Arg Gln Asp Asn Arg Thr Ala Phe Asn Ala Leu Ala Cys Pro
 180 185 190
 Thr Leu Leu Leu Asn Gly Ala Gln Asp Val Ile Cys Thr Pro His His
 195 200 205
 His Gln Leu Leu Ala Ala Gly Asn Ala Asn Val Thr Arg His Thr Val
 210 215 220
 Glu Ala Gly Gly His Phe Ile Pro Leu Glu Thr Pro Asp Glu Ile Ala
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 Pro Leu Leu Arg Gln Trp Ile Thr Glu Cys Ile Gln Cys Ala Lys Thr
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 Val

<210> 10135

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10135

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 Ile Trp Leu Met Gly Arg Arg Val Leu His Ala Lys Lys Phe Leu Val

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<213> Enterobacter cloacae
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Leu	Leu	Ala	Ile	Ser	Pro	Leu	Leu	Ala	Gln	Ala	Ser	Gln	Pro	Val	Thr
Trp	Ser	Leu	Ala	Gly	Met	Trp	Arg	Val	His	Asp	Ala	Asn	Leu	Ser	Thr
Phe	Asp	Gly	Ala	Ser	Ala	Pro	Asp	Arg	Asp	Trp	Arg	Ser	Ile	Ala	Val
Pro	Ala	Asn	Trp	Tyr	Ser	Ala	Gly	Tyr	Asp	His	Gln	Gly	Ala	Leu	Trp
Tyr	Arg	His	Glu	Phe	Thr	Leu	Pro	Arg	Arg	Ala	Pro	Asp	Thr	Met	Ala
Thr	Leu	Val	Phe	Asp	Gly	Val	Asp	Tyr	Phe	Ala	Asp	Val	Thr	Leu	Asn
Gly	Arg	His	Leu	Ala	His	His	Gln	Gly	Tyr	Phe	Gln	Arg	Phe	Ser	Val
Asp	Ile	Ser	Asp	Ala	Leu	Gln	Arg	His	Asn	Lys	Leu	Ala	Val	Arg	Val
Asp	Ser	Pro	Trp	Glu	Asp	Pro	Lys	Thr	Ile	Trp	Pro	Leu	His	Lys	Thr
Met	Val	Lys	Gly	Val	Leu	Asn	Gln	His	Asp	Thr	Arg	Pro	Gly	Gly	Ala
Trp	Ser	Glu	Asp	Gly	Gln	Asp	Ala	Asn	Ser	Gly	Gly	Ile	Trp	Ser	Pro
Val	Lys	Leu	His	Leu	Ser	Arg	Gly	Val	Thr	Ile	Asp	Glu	Val	Ile	Leu
Arg	Pro	Asp	Trp	Arg	Glu	Gly	Leu	Ser	Lys	Pro	Ala	Leu	His	Ala	Glu
Ile	Arg	Tyr	Arg	Ala	Leu	Ser	Ala	Gly	Asp	Val	Thr	Leu	Arg	Leu	Ser
Ala	Thr	Pro	Asp	Asn	Phe	Thr	Gly	Pro	Pro	Val	Lys	Gln	Glu	Phe	Pro
Val	Asn	Leu	Ala	Arg	Thr	Asp	Gly	Lys	Pro	Gln	Ser	Leu	Arg	Val	Thr
Leu	Pro	Met	Gln	Gly	Ala	Arg	Leu	Trp	Trp	Pro	Val	Gly	Tyr	Gly	Arg
Pro	Asn	Leu	Tyr	Arg	Val	Arg	Ala	Thr	Leu	Thr	Asp	Lys	Gln	Gly	Val
Met	Asp	Thr	Ala	Val	Ala	Arg	Thr	Gly	Leu	Arg	Lys	Ile	Val	Lys	Gln
Pro	Asp	Asn	Lys	Glv	Trp	Leu	Phe	Asn	Asp	Lvs	Arg	Leu	Phe	Ile	Lvs

340 345 350
 Gly Ser Asn Tyr Ile Gly Ser Pro Trp Leu Ser Thr Met Thr Arg Lys
 355 360 365
 Lys Tyr Arg Arg Asp Phe Arg Leu Val Gln Ala Met Asn Ala Asn Ala
 370 375 380
 Ile Arg Val His Ser His Val Ala Gly Arg Ala Leu Tyr Asp Val Ala
 385 390 395 400
 Asp Glu Met Gly Leu Met Ile Trp Gln Asp Val Pro Leu Gln Trp Gly
 405 410 415
 Tyr Asn Asn Ser Asp Ala Phe Ala Asp Asn Ala Val Arg Gln Thr Arg
 420 425 430
 Glu Met Val Glu Gln Phe Gly Asn Ser Pro Ala Ile Ile Val Trp Gly
 435 440 445
 Gly His Asn Glu Pro Pro Trp Asn Ser Pro Trp Met Glu Lys Arg Phe
 450 455 460
 Pro Asp Trp Asn Lys Asn Leu Asn Gln Thr Leu Thr Lys Arg Val Gly
 465 470 475 480
 Asp Ala Leu Ser Gln Asp Thr Ser Arg Ile Val His Arg Phe Ser Ala
 485 490 495
 Val Glu Glu His Tyr Trp Ala Gly Trp Tyr Phe Gly Thr Met Arg Asp
 500 505 510
 Leu Leu Gly Pro Ala Lys Thr Ala Ile Ile Thr Glu Phe Gly Ala Gln
 515 520 525
 Ala Leu Pro Arg Leu Ser Thr Leu Lys Thr Ile Ile Pro Ala Arg Leu
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 Met Trp Pro Lys Ser Thr Ala Ala Asp Asp Pro Gly Trp Thr His Trp
 545 550 555 560
 Lys Tyr His Asn Phe Gln Pro Phe Gln Thr Phe Lys Phe Ala Asn Ile
 565 570 575
 Pro Arg Gly Asn Thr Ile Gln Glu Met Ile Ala Asn Thr Gln Arg Tyr
 580 585 590
 Gln Ala Glu Leu Val Ala Met Ala Ala Glu Ser Tyr Arg Arg Gln Arg
 595 600 605
 Tyr Gln Pro Val Thr Ala Leu Phe His Phe Met Phe Val Glu Thr Trp
 610 615 620
 Pro Ser Ile Asn Trp Gly Val Val Asp Tyr Leu Arg Lys Pro Lys Ala
 625 630 635 640
 Gly Tyr Tyr Ala Leu Gln Lys Ala Tyr Gln Pro Ile Leu Pro Ser Ile
 645 650 655
 Glu Pro Val Thr Ala Val Trp Arg Gln Gly Ser Glu Ala Thr Val Arg
 660 665 670
 Leu Trp Ala Ile Asn Asp Thr Trp Ser Ala Cys Glu Ala Cys Arg Leu
 675 680 685
 Lys Trp Gln Val Lys Gln Asn Gly Arg Val Leu Ala Lys Gly Asn Thr
 690 695 700
 Ser Leu Thr Leu Pro Pro Asp Ser Gly Ser Arg Ile Lys Asp Ile Thr
 705 710 715 720
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 Glu Ser Pro Pro Glu Gln
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<210> 10137

<211> 3839

<212> PRT

<213> Enterobacter cloacae

<400> 10137

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Ser Gln Ile Ser Val	Ile Ser Lys Leu	Thr Gly Val Glu	Thr Thr Thr
35	40	45	
Glu Gly Thr Gln Ile	Thr Leu Asp His	Ser Ser Ile Val	Lys Leu Asn
50	55	60	
Val Asp Arg Ala Asp	Ile Ser Gly Tyr	Ser Arg Ser Gly	Asn Asp Leu
65	70	75	80
Val Ile Thr Leu Asn	Ser Gly Glu Val	Ile Thr Leu Lys	Asn Phe Tyr
85	90	95	
Val Thr Asp Ala Gln	Gly Val Ser Gln	Leu Val Leu Glu	Glu Ser Asp
100	105	110	
Gly Ala Leu Trp Trp	Ile Glu Asp Pro	Thr Gly Ala Ala	Thr Tyr Glu
115	120	125	
Ser Ile Ala Ser Thr	Asp Ala Leu Ala	Ser Gly Ser Asp	Ala Ala
130	135	140	
Gly Gly Ala Ala Ala	Trp Pro Trp Val	Leu Gly Gly Leu	Ala Ala Ala
145	150	155	160
Gly Gly Ile Ala Ile	Ala Ala Gly Thr	Gly Gly Gly Gly	Gly Asp Asp
165	170	175	
Asp Asp Asn Asn Ser	Pro Asn Pro Gly	Asn Pro Ser Glu	
180	185	190	
Pro Asp Thr Thr Pro	Pro Asp Ala Pro	Thr Asn Leu Gln	Val Ser Pro
195	200	205	
Asp Gly Lys Thr Val	Thr Gly Thr Ala	Glu Pro Gly Ser	Thr Ile Thr
210	215	220	
Leu Lys Asp Ala Asp	Gly Asn Thr Ile	Gly Thr Gly Lys	Ala Gly Ser
225	230	235	240
Asp Gly Lys Phe Thr	Ile Asp Leu Gly	Thr Pro Leu Thr	Asn Gly Glu
245	250	255	
Gln Ile Thr Ala Thr	Ala Thr Asp Pro	Ser Gly Asn Thr	Ser Gln Gly
260	265	270	
Gly Gln Val Thr Ala	Pro Asp Leu Thr	Ala Pro Asp Ala	Pro Ala Asn
275	280	285	
Leu Glu Val Ser Pro	Asp Gly Lys Thr	Val Thr Gly Thr	Ala Glu Pro
290	295	300	
Gly Ser Thr Val Thr	Leu Lys Asp Ala	Asp Gly Asn Thr	Ile Gly Thr
305	310	315	320
Gly Lys Ala Gly Ser	Asp Gly Lys Phe	Thr Ile Asp Leu	Gly Thr Pro
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Leu Thr Asn Gly Glu	Gln Ile Thr Ala	Thr Ala Thr Asp	Pro Ser Gly
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Asn Thr Ser Pro Gly	Val Gln Val Thr	Ala Pro Asp Leu	Thr Ala Pro
355	360	365	
Asp Ala Pro Glu Ile	Val Thr Val Asn	Asp Asn Val Gly	Ala Glu Thr
370	375	380	
Gly Pro Leu Ser Asn	Gly Gln Arg Thr	Asp Asp Ala Arg	Pro Thr Phe
385	390	395	400
Ser Gly Ile Ser Gly	Ala Gly Thr Val	Ile Thr Phe Tyr	Asp Asn Gly
405	410	415	
Lys Pro Ile Gly Thr	Ala Thr Ala Asp	Ala Thr Gly Lys	Trp Ser Phe
420	425	430	
Thr Pro Ser Thr Asn	Leu Ser Glu Gly	Asn His Ala Ile	Thr Thr Thr
435	440	445	
Ala Thr Asp Ala Ala	Gly Asn Thr Ser	Pro Ala Ser Thr	Ala Val Ser
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Phe Val Val Asp Thr	Val Ala Pro Gly	Ala Pro Ala Ile	Val Ser Ile
465	470	475	480
Thr Asp Asp Val Ala	Pro Gly Thr Gly	Thr Leu Gly Ser	Gly Ser Ser
485	490	495	

Thr Asn Asp Pro Arg Pro Gln Leu Thr Gly Thr Ala Glu Ala Gly Ser
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 Thr Ile Thr Ile Tyr Asp Asn Gly Ile Ala Ile Gly Thr Ala Ile Val
 515 520 525
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 530 535 540
 Gly Ser His Gln Leu Thr Val Arg Ala Thr Asp Val Ala Gly Asn Thr
 545 550 555 560
 Gly Pro Ala Ser Pro Val Phe Thr Val Thr Val Asp Val Thr Ala Pro
 565 570 575
 Gln Thr Pro Ser Gly Phe Ile Ile Asn Asp Asp Thr Gly Val Leu Lys
 580 585 590
 Gly Ala Ile Gly Ala Gly Gln Phe Thr Asp Ala Ser Glu Pro Arg Leu
 595 600 605
 Thr Gly Arg Gly Glu Pro Gly Ser Thr Ile Thr Val Tyr Asp Asn Gly
 610 615 620
 Val Val Ile Gly Thr Thr Thr Val Leu Pro Asn Gly Thr Trp Ser Ile
 625 630 635 640
 Thr Pro Thr Ser Pro Leu Ala Glu Gly Ala His Ser Ile Thr Leu Arg
 645 650 655
 Glu Thr Asp Ala Ala Gly Asn Gln Ser Gly Leu Ser Gln Pro Ile Asn
 660 665 670
 Phe Thr Val Asp Leu Thr Pro Pro Asp Met Pro Val Ala Thr Leu Asn
 675 680 685
 Ser Ala Gly Thr Gln Ile Thr Gly Thr Ala Glu Pro Gly Ser Lys Ile
 690 695 700
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 Ser Asn Gly Asn Tyr Val Val Asn Leu Asn Pro Ala Gln Thr Asn Gly
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 Glu Ile Ile Ser Val Val Ala Ser Asp Ala Ala Gly Asn Gln Ser Ser
 740 745 750
 Pro Ala Leu Val Asn Ala Ala Asp Ile Thr Pro Pro Ala Ala Pro Gly
 755 760 765
 Asn Leu Val Val Ala Glu Asp Gly Ala Ser Val Ser Gly Thr Ala Glu
 770 775 780
 Pro Asn Ser Thr Ile Ile Ile Lys Ala Pro Asp Gly Thr Ile Ile Gly
 785 790 795 800
 Gln Ala Thr Ala Gly Pro Asp Gly Thr Phe Thr Ile Pro Ile Ser Pro
 805 810 815
 Ala Gln Thr Asn Gly Glu Ala Leu Glu Val Thr Ala Thr Asp Gly Ser
 820 825 830
 Gly Asn Thr Ser Pro Ser Gly Phe Ala Asp Ala Pro Asp Ser Thr Pro
 835 840 845
 Pro Leu Ala Pro Glu Asn Val Val Ile Ser Ala Asp Gly Thr Thr Val
 850 855 860
 Thr Gly Thr Ala Glu Pro Gly Ser Thr Val Thr Ile Arg Glu Asn Gly
 865 870 875 880
 Val Lys Val Gly Glu Thr Val Ala Asp Asp Gln Gly Asn Phe Ser Val
 885 890 895
 Glu Leu Ile Pro Pro Lys Ala Asn Gly Glu Ala Leu Thr Ala Asp Ala
 900 905 910
 Thr Asp Thr Ala Gly Asn Thr Gly Pro Thr Ala Pro Phe Asp Ala Pro
 915 920 925
 Asp Ile Thr Ala Ala Gln Thr Pro Val Ile Thr Gly Val Val Asp Asp
 930 935 940
 Ala Pro Gly Val Thr Gly Pro Val Ser Gln Asn Gly Leu Thr Asn Asp
 945 950 955 960
 Asn Thr Pro Thr Ile Asn Gly Thr Gly Glu Pro Gly Thr Thr Ile Thr
 965 970 975
 Leu Tyr Ser Gly Thr Thr Val Leu Gly Thr Ala Leu Val Ser Ala Asn

980										985										990																																	
Gly	Gln	Trp		Ser	Ile	Thr	Leu	Gln	Thr	Ala	Leu	Pro	Asp	Gly	Gly	His				Gly	Gln	Thr	Ala	Leu	Pro	Asp	Gly	Gly	His				Gly	Gln	Thr	Ala	Leu	Pro	Asp	Gly	Gly	His											
				995						1000						1005																																					
Val	Leu	Thr	Thr	Ala	Thr	Ala	Val	Asp	Ala	Asn	Asn	Asn	Leu	Ser	Gly	Thr				Val	Leu	Thr	Thr	Ala	Val	Asp	Ala	Asn	Asn	Leu	Ser	Gly	Thr				Val	Leu	Thr	Thr	Ala	Val	Asp	Ala	Asn	Asn	Leu	Ser	Gly	Thr			
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Ser	Asn	Thr	Trp	Ser	Ile	Thr	Val	Asp	Thr	Ala	Ala	Pro	Gly	Ala	Pro				Ser	Asn	Thr	Trp	Ser	Ile	Thr	Val	Asp	Thr	Ala	Ala	Pro	Gly	Ala	Pro		Ser	Asn	Thr	Trp	Ser	Ile	Thr	Val	Asp	Thr	Ala	Ala	Pro	Gly	Ala	Pro		
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Ala	Ile	Thr	Gln	Val	Ile	Asp	Asp	Val	Pro	Gly	Arg	Thr	Gly	Ala	Leu				Ala	Ile	Thr	Gln	Val	Ile	Asp	Asp	Val	Pro	Gly	Arg	Thr	Gly	Ala	Leu		Ala	Ile	Thr	Gln	Val	Ile	Asp	Asp	Val	Pro	Gly	Arg	Thr	Gly	Ala	Leu		
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Asp	Thr	Asn	Glu	Thr	Thr	Asn	Asp	Thr	Leu	Pro	Thr	Leu	Asn	Gly	Thr				Asp	Thr	Asn	Glu	Thr	Thr	Asn	Asp	Thr	Leu	Pro	Thr	Leu	Asn	Gly	Thr		Asp	Thr	Asn	Glu	Thr	Thr	Asn	Asp	Thr	Leu	Pro	Thr	Leu	Asn	Gly	Thr		
			1060						1065						1070																																						
Gly	Glu	Pro	Gly	Ser	Thr	Val	Thr	Ile	Arg	Leu	Asp	Gly	Gln	Asp	Ile				Gly	Glu	Pro	Gly	Ser	Thr	Val	Thr	Ile	Arg	Leu	Asp	Gly	Gln	Asp	Ile		Gly	Glu	Pro	Gly	Ser	Thr	Val	Thr	Ile	Arg	Leu	Asp	Gly	Gln	Asp	Ile		
			1075						1080						1085																																						
Gly	Thr	Ala	Val	Val	Asn	Ser	Gly	Gly	Ala	Trp	Thr	Phe	Thr	Pro	Ala				Gly	Thr	Ala	Val	Val	Asn	Ser	Gly	Gly	Ala	Trp	Thr	Phe	Thr	Pro	Ala		Gly	Thr	Ala	Val	Val	Asn	Ser	Gly	Gly	Ala	Trp	Thr	Phe	Thr	Pro	Ala		
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Thr	Pro	Leu	Val	Asn	Gly	Gln	His	Thr	Phe	Thr	Val	Val	Ala	Ser	Asp				Thr	Pro	Leu	Val	Asn	Gly	Gln	His	Thr	Phe	Thr	Val	Val	Ala	Ser	Asp		Thr	Pro	Leu	Val	Asn	Gly	Gln	His	Thr	Phe	Thr	Val	Val	Ala	Ser	Asp		
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Asp	Thr	Thr	Pro	Pro	Ala	Ala	Thr	Ile	Asp	Thr	Val	Ser	Asp	Asn				Asp	Thr	Thr	Pro	Pro	Ala	Ala	Thr	Ile	Asp	Thr	Val	Ser	Asp	Asn			Asp	Thr	Thr	Pro	Pro	Ala	Ala	Thr	Ile	Asp	Thr	Val	Ser	Asp	Asn				
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Val	Gly	Pro	Val	Gln	Leu	Pro	Leu	Asn	Ser	Gly	Asp	Thr	Thr	Asp	Asp				Val	Gly	Pro	Val	Gln	Leu	Pro	Leu	Asn	Ser	Gly	Asp	Thr	Thr	Asp	Asp		Val	Gly	Pro	Val	Gln	Leu	Pro	Leu	Asn	Ser	Gly	Asp	Thr	Thr	Asp	Asp		
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Thr	Leu	Pro	Gln	Leu	Gln	Gly	Thr	Ala	Pro	Asp	Gly	Thr	Thr	Ile	Thr				Thr	Leu	Pro	Gln	Leu	Gln	Gly	Thr	Ala	Pro	Asp	Gly	Thr	Thr	Ile	Thr		Thr	Leu	Pro	Gln	Leu	Gln	Gly	Thr	Ala	Pro	Asp	Gly	Thr	Thr	Ile	Thr		
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Ile	Tyr	Asp	Gly	Thr	Thr	Leu	Leu	Gly	Thr	Ala	Val	Leu	Asp	Gly	Ser				Ile	Tyr	Asp	Gly	Thr	Thr	Leu	Leu	Gly	Thr	Ala	Val	Leu	Asp	Gly	Ser		Ile	Tyr	Asp	Gly	Thr	Thr	Leu	Leu	Gly	Thr	Ala	Val	Leu	Asp	Gly	Ser		
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Ser	Leu	Thr	Val	His	Ala	Thr	Asp	Glu	Ala	Gly	Asn	Thr	Thr	Ile	Ser				Ser	Leu	Thr	Val	His	Ala	Thr	Asp	Glu	Ala	Gly	Asn	Thr	Thr	Ile	Ser		Ser	Leu	Thr	Val	His	Ala	Thr	Asp	Glu	Ala	Gly	Asn	Thr	Thr	Ile	Ser		
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Ile	Pro	Glu	Ile	Thr	Val	Asn	Pro	Asp	Gly	Gly	Thr	Pro	Gly	Thr	Ala				Ile	Pro	Glu	Ile	Thr	Val	Asn	Pro	Asp	Gly	Gly	Thr	Pro	Gly	Thr	Ala		Ile	Pro	Glu	Ile	Thr	Val	Asn	Pro	Asp	Gly	Gly	Thr	Pro	Gly	Thr	Ala		
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Leu	Asn	Pro	Gly	Glu	Thr	Thr	Arg	Asp	Thr	Thr	Pro	Thr	Leu	Ser	Gly				Leu	Asn	Pro	Gly	Glu	Thr	Thr	Arg	Asp	Thr	Thr	Pro	Thr	Leu	Ser	Gly		Leu	Asn	Pro	Gly	Glu	Thr	Thr	Arg	Asp	Thr	Thr	Pro	Thr	Leu	Ser	Gly		
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Asn	Gln	Asp	Ser	Ala	Gly	Asn	Glu	Ser	Ala	Pro	Ser	Thr	Pro	Val	Thr				Asn	Gln	Asp	Ser	Ala	Gly	Asn	Glu	Ser	Ala	Pro	Ser	Thr	Pro	Val	Thr		Asn	Gln	Asp	Ser	Ala	Gly	Asn	Glu	Ser	Ala	Pro	Ser	Thr	Pro	Val	Thr		
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Gln Asn Gly Glu Ser Thr Asn Asp Thr Thr Pro Gly Ile Gly Gly Thr
 1475 1480 1485
 Gly Thr Thr Gly Glu Thr Val Ile Ile Tyr Asn Asn Gly Val Glu Val
 1490 1495 1500
 Ala Arg Val Glu Val Val Asn Asn Glu Trp Ser Tyr Thr Leu Pro Thr
 1505 1510 1515 1520
 Gln Thr Asp Gly Pro Leu Asn Ile Thr Val Ala Ala Val Asp Asp Ala
 1525 1530 1535
 Gly Asn Val Ser Pro Val Ser Pro Val Phe Thr Val Glu Val Asp Thr
 1540 1545 1550
 Gln Ala Pro Thr Val Pro Gln Ile Asp Ala Val Ser Asp Ser Gln Leu
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 Thr Asn Ser Val Leu Tyr Thr Arg Asp Gly Thr Pro Thr Leu Thr Gly
 1570 1575 1580
 Ile Gly Glu Pro Gly Ser Ser Val Thr Val Ser Val Asp Gly Val Ala
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 Ser Pro Val Val Val Glu Val Gln Pro Asn Gly Thr Trp Ser Trp Thr
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 Ala Asp Pro Ala Leu Thr Glu Gly Pro His Thr Phe Ser Val Val Ala
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 Ser Asp Ala Ala Gly Asn Thr Ser Ala Ser Ser Gly Asp Leu Ser Val
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 Thr Val Asp Thr Leu Pro Pro Ala Thr Pro Thr Asn Met Thr Ile Ala
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 Ala Glu Gly Thr Pro Leu Thr Gly Thr Ala Asp Asp Gly Thr Thr Val
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 Thr Val Arg Asp Ala Asn Gly Asn Ile Ile Gly Thr Gly Val Ala Thr
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 Gly Gly Ser Phe Tyr Ile Ala Leu Ser Pro Ala Gln Leu Asp Ala Ala
 1700 1705 1710
 Thr Leu Thr Leu Ile Ala Thr Asp Pro Ala Gly Asn Ala Ser Ser Ser
 1715 1720 1725
 Thr Thr Phe Asp Val Pro Asp Ser Pro Leu Glu Leu Pro Ala Val Pro
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 Val Ile Thr Ala Ile Asn Asp Asp Val Asp Pro Val Thr Gly Asp Val
 1745 1750 1755 1760
 Lys Asp Lys Thr Thr Asn Asp Thr Thr Pro Thr Leu Thr Gly Thr Ala
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 Asp Pro Gly Ser Val Ile Ala Ile Tyr Gln Asp Gly Ser Leu Leu Pro
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 Val Thr Thr Val Val Ala Asp Thr Asn Gly Asn Trp Ser Tyr Thr Pro
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 Leu Leu Pro Leu Thr Glu Gly Pro His Thr Phe Ala Val Thr Ala Thr
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 Thr Val Asp Leu Thr Ala Pro Thr Ala Pro Ala Ile Gly Ala Val Thr
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 Asp Asp Val Gly Pro Ile Thr Gly Pro Ile Ala Asp Gly Gln Ser Thr
 1860 1865 1870
 Asn Asp Asn Arg Pro Thr Leu Thr Gly Thr Gly Thr Ala Gly Asp Thr
 1875 1880 1885
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 1890 1895 1900
 Pro Thr Gly Thr Trp Ser Tyr Thr Pro Pro Val Leu Asp Asp Gly Ser
 1905 1910 1915 1920
 His Thr Leu Thr Val Thr Ala Thr Asp Pro Ala Gly Asn Glu Ser Thr
 1925 1930 1935
 Pro Ser Ala Gly Ile Thr Ile Val Val Asp Thr Val Ser Thr Thr Pro
 1940 1945 1950
 Val Ile Thr Ser Val Thr Asp Asn Ala Gly Asn Ala Ala Thr Pro Val

1955				1960				1965							
Pro	Ser	Gly	Asp	Pro	Thr	Asn	Asp	Thr	Thr	Pro	Thr	Leu	Thr	Gly	Thr
1970				1975						1980					
Ala	Glu	Pro	Asn	Ser	Val	Val	Ala	Ile	Phe	Asp	Gly	Thr	Thr	Gln	Ile
1985				1990						1995					2000
Gly	Thr	Val	Ala	Ala	Asp	Gly	Thr	Gly	Ala	Trp	Thr	Phe	Thr	Pro	Glu
				2005						2010					2015
Thr	Ala	Leu	Gly	Glu	Gly	Thr	His	Asp	Phe	Thr	Val	Arg	Ala	Thr	Asp
				2020						2025					2030
Pro	Gln	Gly	Asn	Val	Ser	Gln	Pro	Ser	Asn	Ala	Trp	Ser	Val	Glu	Ile
				2035						2040					2045
Asp	Leu	Thr	Ala	Pro	Gln	Val	Pro	Thr	Ile	Val	Thr	Val	Ser	Asp	Asn
				2050						2055					2060
Ala	Pro	Gly	Gly	Val	Thr	Gly	Pro	Leu	Thr	Ala	Gly	Gln	Val	Thr	Asn
2065				2070						2075					2080
Asp	Thr	Thr	Pro	Thr	Leu	Ser	Gly	Thr	Gly	Gln	Ala	Gly	Thr	Thr	Ile
				2085						2090					2095
His	Val	Leu	Asn	Asn	Gly	Val	Glu	Ile	Gly	Thr	Thr	Thr	Val	Asp	Gly
				2100						2105					2110
Asn	Gly	Asn	Trp	Thr	Phe	Thr	Pro	Asp	Pro	Val	Leu	Thr	Asp	Gly	Thr
				2115						2120					2125
Tyr	Asn	Leu	Arg	Val	Asn	Ala	Ser	Asp	Asp	Val	Gly	Asn	Val	Ser	Ala
				2130						2135					2140
Asn	Ser	Pro	Val	Phe	Ala	Phe	Thr	Val	Asp	Thr	Thr	Gly	Pro	Ala	Ala
2145				2150						2155					2160
Pro	Val	Val	Thr	Thr	Val	Ile	Asp	Asp	Val	Ser	Pro	Gly	Thr	Gly	Ile
				2165						2170					2175
Ile	Ala	Ser	Asn	Gly	Ser	Thr	Asn	Asp	Thr	Arg	Pro	Thr	Phe	Asn	Gly
				2180						2185					2190
Thr	Gly	Glu	Val	Gly	Ala	Thr	Val	His	Val	Ile	Val	Asp	Asp	Val	Glu
				2195						2200					2205
Ile	Gly	Thr	Ala	Val	Val	Asn	Ala	Gln	Gly	Asn	Trp	Thr	Phe	Thr	Pro
				2210						2215					2220
Thr	Thr	Ala	Leu	Gly	Glu	Gly	Pro	His	Thr	Ile	Thr	Phe	Asn	Ala	Thr
				2225						2230					2235
Asp	Ala	Ala	Gly	Asn	Thr	Gly	Val	Thr	Ser	Pro	Pro	Phe	Asn	Leu	Thr
				2245						2250					2255
Val	Asp	Thr	Ser	Val	Pro	Asp	Ala	Pro	Val	Phe	Thr	Pro	Ala	Thr	Asp
				2260						2265					2270
Asn	Ala	Gly	Pro	Val	Leu	Gly	Pro	Val	Ala	Ser	Gly	Gln	Ser	Thr	Asp
				2275						2280					2285
Asp	Thr	Thr	Pro	Thr	Leu	Asn	Gly	Thr	Ala	Ala	Ala	Asn	Ala	Thr	Ile
				2290						2295					2300
Thr	Ile	Tyr	Glu	Asn	Gly	Gln	Pro	Val	Gly	Thr	Ala	Val	Ala	Asp	Ala
				2305						2310					2315
Asn	Gly	Val	Trp	Ser	Phe	Thr	Thr	Gly	Thr	Leu	Ala	Asn	Gly	Ser	His
				2325						2330					2335
Thr	Trp	Thr	Ala	Thr	Ala	Thr	Asp	Ala	Ala	Gly	Asn	Ile	Ser	Pro	Ala
				2340						2345					2350
Ser	Pro	Gly	Phe	Thr	Leu	Val	Val	Asp	Thr	Thr	Val	Pro	Ala	Ala	Pro
				2355						2360					2365
Val	Ile	Thr	Gln	Ala	Ile	Asp	Asp	Val	Gly	Thr	Ile	Thr	Gly	Ala	Ile
				2370						2375					2380
Gly	Ser	Gly	Gln	Thr	Thr	Asn	Asp	Pro	Leu	Pro	Arg	Leu	Val	Gly	Thr
				2385						2390					2395
Ser	Glu	Pro	Leu	Ala	Thr	Val	Asn	Ile	Tyr	Glu	Gly	Thr	Thr	Leu	Val
				2405						2410					2415
Gly	Thr	Gly	Thr	Ala	Asp	Ala	Asn	Gly	Asn	Trp	Thr	Val	Asp	Ile	Thr
				2420						2425					2430
Val	Pro	Leu	Gly	Thr	Gly	Ser	His	Thr	Phe	Thr	Ala	Glu	Ala	Thr	Asp
				2435						2440					2445

Gln Ala Gly Asn Thr Gly Ala Pro Ser Ala Asp Phe Ser Leu Ile Ile
 2450 2455 2460
 Asp Thr Thr Pro Pro Ala Leu Pro Val Leu Thr Ser Val Thr Asp Asp
 2465 2470 2475 2480
 Val Gly Asn Ala Ala Thr Pro Val Ala Asn Gly Gly Leu Thr Asn Asp
 2485 2490 2495
 Ala Arg Pro Thr Leu Thr Gly Thr Ala Gly Ala Thr Val Thr
 2500 2505 2510
 Ile Tyr Asp Asn Gly Val Gln Ile Gly Thr Ala Val Ala Thr Gly Gly
 2515 2520 2525
 Ala Trp Ser Phe Thr Pro Ser Thr Pro Leu Ala Asp Gly Pro His Asn
 2530 2535 2540
 Leu Thr Phe Ser Ala Thr Asp Ala Val Gly Asn Ala Ser Ala Gln Thr
 2545 2550 2555 2560
 Gly Gly Tyr Thr Ile Asn Val Asp Ala Thr Ala Pro Val Ala Pro Ala
 2565 2570 2575
 Ile Thr Ser Ile Val Asp Asp Val Gly Thr Val Thr Gly Pro Val Thr
 2580 2585 2590
 Gly Thr Asn Pro Thr Asn Asp Thr Arg Pro Thr Leu Asn Gly Thr Ala
 2595 2600 2605
 Glu Ala Asn Ala Thr Val Arg Ile Tyr Asp Gly Thr Thr Leu Val Gly
 2610 2615 2620
 Thr Val Thr Ala Asp Ala Asn Gly Asn Trp Thr Leu Pro Gln Thr Ser
 2625 2630 2635 2640
 Thr Thr Leu Ile Glu Gly Glu His Asn Phe Thr Ala Thr Ala Thr Asp
 2645 2650 2655
 Ala Ala Gly Asn Thr Ser Ala Pro Ser Pro Ile Ile Thr Ile Asn Val
 2660 2665 2670
 Asp Leu Thr Pro Pro Ala Ala Pro Thr Gly Leu Ala Val Ile Thr Asn
 2675 2680 2685
 Gly Thr Gln Val Thr Gly Thr Ala Glu Ala Gly Ser Thr Val Thr Ile
 2690 2695 2700
 Thr Ser Ser Thr Gly Thr Val Leu Gly Thr Ala Val Ala Asp Gly Ser
 2705 2710 2715 2720
 Gly Asn Phe Ser Ala Thr Leu Thr Pro Pro Gln Thr Gly Gly Glu Ser
 2725 2730 2735
 Leu Ile Val Phe Ala Thr Asp Lys Ala Gly Asn Ala Gly Ile Thr Thr
 2740 2745 2750
 Ser Val Ile Ala Pro Ile Thr Thr Ile Pro Asn Ala Pro Val Ile Ala
 2755 2760 2765
 Asn Ile Asp Asp Asn Val Gly Thr Val Thr Gly Asn Leu Thr Asn Gly
 2770 2775 2780
 Lys Thr Thr Asp Asp Thr Thr Pro Thr Leu Ser Gly Thr Ala Gln Pro
 2785 2790 2795 2800
 Asn Ala Thr Ile Thr Leu Tyr Asn Asn Gly Val Leu Met Gly Thr Val
 2805 2810 2815
 Thr Ala Asn Ala Ser Gly Asn Trp Ser Phe Thr Thr Pro Val Leu Ser
 2820 2825 2830
 Glu Gly Pro His Ala Phe Thr Ala Thr Ala Ser Asn Gly Ser Gly Thr
 2835 2840 2845
 Ser Pro Ile Ser Thr Ser Thr Thr Val Ile Val Asp Leu Thr Ala Pro
 2850 2855 2860
 Thr Ala Pro Thr Gly Thr Phe Asn Ala Asp Gly Ser Val Leu Thr Gly
 2865 2870 2875 2880
 Ser Ala Glu Ala Gly Ser Thr Val Thr Ile Arg Leu Ala Asp Asn Ser
 2885 2890 2895
 Thr Val Thr Ala Thr Ala Asp Ser Asn Gly Ser Trp Ser Tyr Thr Phe
 2900 2905 2910
 Leu Asn Lys Gln Thr Glu Gly Gln Thr Leu Gln Ile Thr Ala Thr Asp
 2915 2920 2925
 Ala Ala Gly Asn Val Ser Leu Pro Gly Ser Ala Leu Ala Pro Val Val

2930	2935	2940
Pro Leu Ser Ala Ser Thr Asn Val Glu Glu Leu Ala Leu Thr Thr Thr		
2945	2950	2955
Ala Thr Val Thr Asn Ser Gln Tyr Ser Asp Tyr Gly Phe Leu Leu Val		2960
	2965	2970
Gly Ala Val Gly Asn Val Leu Thr Leu Leu Gly Asn Asp Thr Ala Gln		2975
	2980	2985
Val Gly Phe Thr Val Gly Asn Gly Gly Ser Ala Asp Ile Ala Val Asn		2990
	2995	3000
Ala Asn Ala Thr Gly Ala Val Leu Ser Leu Leu Asn Thr Leu Glu Leu		3005
	3010	3015
Val Val Gln Arg Phe Asp Ala Ala Asn Asn Thr Trp Thr Thr Val Val		3020
	3030	3035
3025		
Asp Thr Gly Gln Pro Gln Phe Ala Asp Leu Leu Thr Leu Gly Ala Thr		3040
	3045	3050
Gly Val Ser Leu Asn Leu Thr Gly Leu Ala Asp Gly Gln Tyr Arg Val		3055
	3060	3065
Leu Ser Tyr Asn Thr Asn Leu Leu Ala Thr Gly Ser Tyr Thr Ser Leu		3070
	3075	3080
Asp Val Ala Val Lys Glu Thr Ser Ala Gly Thr Val Ser Gly Glu Thr		3085
	3090	3095
Asn Ile Val Gly Asn Val Ile Thr Asp Val Asp Pro Thr Ala Gly Ser		3100
	3105	3110
Asp Asn Ala Pro Ala Gly Thr Thr Val Thr Ala Val Thr Asn Ala Gln		3115
	3125	3130
Gly Ser Thr Thr Ser Val Thr Ala Asp Gly Thr Val Ile Gln Gly Gln		3135
	3140	3145
Tyr Gly Thr Leu Thr Ile Asn Leu Asp Gly Ser Tyr Thr Tyr Asn Leu		3150
	3155	3160
Thr Asn Thr Ser Ala Ala Val Ile Gly Arg Thr Glu Asn Phe Thr Tyr		3165
	3170	3175
Thr Ile Thr His Asn Gly Thr Ser Ala Ser Ala Asn Leu Val Leu Ser		3180
	3185	3190
Leu Gly Glu Gly Thr Ser Ser Ser Gly Ile Val Ala Val Asp Asp Thr		3195
	3205	3210
Ala Ser Leu Thr Phe Asp Thr Thr Val Glu Ala Ile Asn Asn Gly Thr		3215
	3220	3225
Ser Ser Gln Gly Gly Phe Thr Leu Val Gly Ile Asn Leu Gly Asn Thr		3230
	3235	3240
Leu Gly Leu Asn Leu Leu Asp Asp Leu Ala Asn Pro Ile Ile Tyr Asn		3245
	3250	3255
Val Glu Glu Gly Thr Thr Arg Thr Met Thr Val Gln Ala Ser Val Gly		3260
	3265	3270
Gly Val Ala Leu Ala Ser Val Phe Asp Leu Tyr Ile Tyr Lys Phe Asn		3275
	3285	3290
Asn Ala Thr Gln Thr Phe Glu Gln Met Arg Val Glu Pro Gly Trp Leu		3295
	3300	3305
Arg Ala Pro Leu Leu Gly Gly Thr Ser Pro Gln Leu Thr Leu Asn Leu		3310
	3315	3320
Pro Ala Gly Glu Tyr Leu Phe Leu Leu Asn Thr Ala Ala Gly Ile Thr		3325
	3330	3335
Ala Leu Thr Ala Tyr Thr Leu Asn Val Leu Gln Asp His Val Tyr Ser		3340
	3345	3350
Val Ala Ser Val Ser Glu Ser Thr Thr Gly Asp Val Leu Ala Asp Asp		3355
	3365	3370
Ile Ala Pro Ala Gly Thr Val Val Ser Asp Val Asn Gly Val Ala Val		3375
	3380	3385
Asn Ser Ser Gly Leu Thr Glu Ile Thr Gly Glu Tyr Gly Thr Leu Arg		3390
	3395	3400
Ile Asn Ala Ala Gly Glu Tyr Thr Tyr Thr Leu Asn Ser Gly Val Gly		3405
	3410	3415
		3420

Ala Asp His Ile Ser Thr Pro Asp Thr Phe Val Tyr Thr Ile Thr Ala
 3425 3430 3435 3440
 Pro Asp Gly Ser Lys Asp Thr Ala Ser Leu Asn Ile Thr Pro Thr Ala
 3445 3450 3455
 Arg Pro Met Asp Ala Val Asn Asp Val Ser Thr Ala Met Asp Val Thr
 3460 3465 3470
 Thr Val His His Thr Ala Ala Tyr Ser Asp Thr Thr Val Gly Ser Ala
 3475 3480 3485
 Ser Trp Asn Ala Ala Leu Leu Ala Ser Thr Gln Gly Ser Gly Ser Gly
 3490 3495 3500
 Thr Phe Val Val Asp Pro Asn Thr Ala Leu His Asn Val Val Leu Ser
 3505 3510 3515 3520
 Phe Asn Val Ala Ser Leu Leu Thr Leu Thr Gly Leu Thr Val Asp Trp
 3525 3530 3535
 Thr Leu Ser Asn Gly Ala Thr Thr Val Arg Thr Gly Ser Phe Asn Gly
 3540 3545 3550
 Gly Leu Leu Leu Gly Gly Thr Ala Thr Ile Asn Leu Thr Gly Leu Asp
 3555 3560 3565
 Leu Glu Ala Gly Thr Tyr Thr Leu Ser Tyr Thr Gly Lys Met Gly Pro
 3570 3575 3580
 Leu Gly Val Gly Asn Ile Thr Ile Thr Pro Ser Val Thr Gly Thr Ser
 3585 3590 3595 3600
 Tyr Ser Leu Ser Gln Phe Asp Ala Thr Gly Thr His Thr Val Asp Gly
 3605 3610 3615
 Asn Ile Phe Asp Gly Thr Asp Ser Ala Gly Ala Met Asp Gln Leu His
 3620 3625 3630
 Ser Val Asp Thr Arg Val Ser Ile Thr Gly Tyr Asp Gly Val Thr Thr
 3635 3640 3645
 Thr Leu Asp Pro Tyr Thr Gly Ser Thr Met Ser Asn Ile Thr Gly His
 3650 3655 3660
 Tyr Gly Thr Leu Ala Ile Ala Ala Asp Gly Ser Tyr Thr Tyr Thr Leu
 3665 3670 3675 3680
 Asn Pro Gly Ile Ser Leu Ser Thr Ile Thr Ser Lys Glu Val Phe Asn
 3685 3690 3695
 Tyr Thr Leu Thr Asp Ala Asn Gly Val Lys Asp Thr Ala Ser Leu Thr
 3700 3705 3710
 Ile Asp Met Ala Pro Lys Phe Val Ser Ser Glu His Asn Asp Val Ile
 3715 3720 3725
 Ser Gly Thr Ala Tyr Gly Asp Thr Leu Ile Tyr Gln Val Leu Asn Asn
 3730 3735 3740
 Thr Ala Gly Asn Ala Thr Ala Gly Asn Ser Thr Gly Asp His Trp Thr
 3745 3750 3755 3760
 Asn Phe Ser Leu Thr Gln Gly Asp Lys Ile Asp Ile Gly Asp Leu Leu
 3765 3770 3775
 Val Gly Trp Asn Gly Ser Ala Ser Thr Leu Gly Asn Tyr Val Ser Val
 3780 3785 3790
 Ser Gln Ser Gly Asn Asn Thr Val Ile Ser Ile Asp Arg Asp Gly Thr
 3795 3800 3805
 Gly Ala Ala Tyr Thr Lys Ser Thr Leu Val Thr Leu Asp Asn Val Gln
 3810 3815 3820
 Thr Thr Tyr Asp Glu Leu Val Asn Gln Gln His Ile Ile Thr
 3825 3830 3835

<210> 10138

<211> 742

<212> PRT

<213> Enterobacter cloacae

<400> 10138

Lys Pro His His Pro Asp Arg Gly Asp Pro Ala Met Lys Gln Arg Asp
 1 5 10 15

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Ile Pro Gln Gly Glu Asn Met Thr Asp Gln Ala Leu Glu Gln Trp Ala
      20      25      30
Gln Ala Phe Gly Tyr Val Ala Thr Arg Tyr Arg Val Ala Cys Ser Pro
      35      40      45
Gly Ser Leu Val Ala Gly Ala Pro Trp Leu Lys Gly Lys Pro Met Val
      50      55      60
Pro Ala Leu Thr Gln Leu Ala Arg Glu Ala Gly Leu Thr Phe Gln Leu
      65      70      75      80
Leu Thr Ala Asp Gln Gln Ser Ile Asn Ser Trp Arg Leu Pro Val Val
      85      90      95
Val Glu Leu Asn Asp Gly Lys Ile Gly Val Ile Asp Asn Phe Asp Gly
      100      105      110
Glu Asp Thr Leu Glu Val Ser Phe Phe Asp Asp Ser Thr His Thr Asn
      115      120      125
Arg Leu Ser Met Ser Ala Met Leu Pro Ala Ile Arg His Val Ile Ala
      130      135      140
Leu Arg Pro Leu Ala Ala Leu Lys Asp Ser Arg Val Asp Ala Tyr Ile
      145      150      155      160
Ser Lys Tyr Arg Pro Asp Trp Leu Tyr Arg Leu Val Met Arg Asp Leu
      165      170      175
Arg Pro Tyr Ser Trp Val Met Leu Ala Ala Leu Phe Ile Asn Val Leu
      180      185      190
Ser Leu Ser Gly Ile Val Phe Ser Met Gln Val Tyr Asp Arg Val Ile
      195      200      205
Pro Ala Gln Ser Tyr Pro Thr Leu Tyr Val Leu Thr Ile Gly Val Leu
      210      215      220
Ile Ala Thr Leu Phe Gly Phe Val Leu Arg Val Ala Arg Gly His Ile
      225      230      235      240
Met Asp Leu Leu Gly Lys Arg Ser Asp Leu Arg Val Ser Asp Arg Val
      245      250      255
Phe Gly His Ala Leu Arg Leu Arg His Ser Ala Ile Pro Arg Ser Thr
      260      265      270
Gly Ser Phe Ile Ser Gln Leu Arg Glu Leu Glu Gln Ile Arg Glu Met
      275      280      285
Val Thr Ser Ser Thr Ile Ser Thr Ile Val Asp Leu Pro Phe Phe Ile
      290      295      300
Leu Phe Val Ile Val Leu Ala Ile Ile Ala Pro Gln Leu Ala Trp Ile
      305      310      315      320
Ala Pro Val Ala Ala Val Ile Met Val Leu Pro Gly Leu Leu Leu Gln
      325      330      335
Lys Lys Leu Ala Glu Leu Ala Lys Gln Ser Ala His Glu Ser Thr Leu
      340      345      350
Arg Asn Ala Val Leu Val Glu Ser Val Gln Gly Leu Glu Asp Ile Lys
      355      360      365
Leu Met Gln Ala Glu Asn Arg Phe Leu Gln Gln Trp Asn Ser Tyr Ile
      370      375      380
Gln Ile Thr Ala Glu Ser Gly Leu Arg Thr Arg Glu Leu Thr Gln Asn
      385      390      395      400
Leu Ile Ser Trp Gly Met Thr Ile Gln Ser Leu Val Tyr Ala Gly Val
      405      410      415
Ile Val Val Gly Ala Pro Met Val Ile Asp Gly Thr Leu Thr Thr Gly
      420      425      430
Ser Val Val Ala Ala Ser Met Leu Ala Ser Arg Met Ile Ala Pro Met
      435      440      445
Ala Thr Leu Cys Gly Val Leu Ala Arg Trp Gln Gln Val Lys Ala Ala
      450      455      460
Lys Glu Gly Leu Asp Ser Ile Met Gln Leu Pro Thr Glu Asn Gln Arg
      465      470      475      480
Glu Glu Thr Pro Ile Arg Gln Asp Val Leu Arg Gly His Tyr Leu Phe
      485      490      495
Glu Gln Ala Gln Phe Arg Tyr His Pro Glu Asp Pro Arg Met Ala Leu

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500 505 510
 Arg Ile Asn Arg Leu Glu Ile Lys Ala Gly Glu Lys Val Ala Ile Leu
 515 520 525
 Gly Arg Asn Gly Ala Gly Lys Ser Thr Leu Leu Gln Ala Met Ala Gly
 530 535 540
 Gly Met Asp Leu Ala Gly Gly Glu Leu Arg Leu Asp Asn Leu Ser Leu
 545 550 555 560
 Pro His Leu Asp Val Ala Asp Val Arg Arg Asn Val Gly Phe Met Thr
 565 570 575
 Gln Asn Ala Arg Leu Phe Tyr Gly Thr Leu Arg Glu Asn Ile Thr Leu
 580 585 590
 Gly Met Pro Arg Ala Thr Asp Lys Glu Ile Phe Glu Val Leu Glu Met
 595 600 605
 Cys Gly Ala Ala Ser Phe Val Gln Lys Leu Pro Lys Gly Leu Asp Tyr
 610 615 620
 Pro Ile Met Glu Asn Gly Val Gly Leu Ser Gly Gly Gln Arg Gln Ser
 625 630 635 640
 Ile Leu Leu Ala Arg Met Leu Leu Arg Asp Pro Asn Ile Val Leu Met
 645 650 655
 Asp Glu Pro Thr Ala Ser Leu Asp Glu His Thr Glu Arg Glu Phe Ile
 660 665 670
 Gln Arg Leu Gly Ala Trp Leu Gly Asn Arg Thr Leu Val Val Ala Thr
 675 680 685
 His Arg Val Pro Val Leu Glu Leu Val Glu Arg Val Val Val Leu Lys
 690 695 700
 Asp Gly Met Leu Val Met Asp Ala Pro Lys Ala Gln Ala Leu Asn Asn
 705 710 715 720
 Ser Arg Met Gln Gln Gln Gln Ala Thr Gly Arg Glu Trp Lys Asn
 725 730 735
 Glu Asn Gln Ser Ala
 740

<210> 10139

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 10139

Thr Asp Asn Thr Gly Leu Tyr Phe Ala Gly Gln Arg Glu Lys Gln Thr
 1 5 10 15
 Ile Ser Ile Ser Leu His Thr Ser Thr Arg Asn Thr Ser Glu Ala Ser
 20 25 30
 Pro Met Thr Leu Gln Gln Ala Leu Arg Lys Pro Thr Thr Pro Gly Glu
 35 40 45
 Val Leu Gln Tyr Glu Tyr Leu Glu Pro Leu Asn Leu Lys Ile Asn Asp
 50 55 60
 Leu Ala Glu Met Leu Asn Val His Arg Asn Thr Val Ser Ala Leu Val
 65 70 75 80
 Asn Asn Asn Arg Lys Leu Thr Ala Asp Met Ala Ile Lys Leu Ala Lys
 85 90 95
 Ala Leu Asn Thr Thr Ile Glu Phe Trp Leu Asn Leu Gln Leu Asn Val
 100 105 110
 Asp Ile Trp Glu Ala Gln Ser Asn Ser Arg Thr Gln Glu Glu Leu Ser
 115 120 125
 Arg Ile Lys Thr Val Ala Glu Val Met Ala Lys Arg Lys Ser Gly Lys
 130 135 140
 Pro Asp Val Ala
 145

<210> 10140

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 10140

Gln Ser Ser Asn Ile Asn Pro Val Tyr Leu Asn Phe Tyr Leu Leu Lys
 1 5 10 15
 Asn Glu Gly Ser Gln His Lys Glu Ser Ala Met Lys Ile Val Ile Ile
 20 25 30
 Gly Ala Ser Gly Thr Val Gly Arg Ala Val Thr Glu Glu Leu Ser Arg
 35 40 45
 Arg His Glu Val Ile Ser Val Gly Arg Thr Gln Gly Asp His Gln Val
 50 55 60
 Asp Ile Thr Ser Gln Ala Ser Val Gln Ala Leu Phe Glu Lys Ile Gly
 65 70 75 80
 Pro Val Asp Ala Ile Val Ser Ala Ser Gly Gly Val His Phe Gly Pro
 85 90 95
 Leu Ala Thr Met Thr Asp Gly Glu Phe Asn Arg Gly Leu Gln Asp Lys
 100 105 110
 Leu Leu Gly Gln Ile Arg Leu Ala Leu Thr Gly Gln His Tyr Leu Asn
 115 120 125
 Glu Gly Gly Ser Ile Thr Leu Ile Ser Gly Ile Val Ala His Glu Pro
 130 135 140
 Ile Ala Gln Gly Val Asn Ala Thr Thr Val Asn Ala Ala Leu Glu Gly
 145 150 155 160
 Phe Val Arg Ala Ala Cys Glu Leu Pro Arg Gly Ile Arg Ile Asn
 165 170 175
 Leu Ile Ser Pro Thr Val Leu Thr Glu Ser Val Glu Ala Tyr Asp Gly
 180 185 190
 Phe Phe Pro Gly Phe Glu Ser Val Pro Ala Ala Thr Val Ala Gln Ala
 195 200 205
 Tyr Arg Arg Ser Val Glu Gly Val Gln Ser Gly Arg Val Tyr Lys Val
 210 215 220
 Gly Tyr
 225

<210> 10141

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 10141

Gly Asn Ile Met Ser Leu Pro Leu Ile Ser Pro Gln Gln Ala Asn Ala
 1 5 10 15
 Leu Ile Ala Glu Gly Ala Lys Leu Ile Asp Ile Arg Asp Pro Asp Glu
 20 25 30
 Tyr Ala Arg Glu His Ile Pro Ala Ala His Ser Ile Pro Leu Asp Ser
 35 40 45
 Leu Pro Gly Gly Leu Asn Ala Ala Pro Gly Glu Thr Val Ile Phe His
 50 55 60
 Cys Gln Ser Gly Ala Arg Thr Ser Asn Asn Ala Ala Arg Leu Ala Gln
 65 70 75 80
 Ala Ala Ser Pro Ala Asn Ala Cys Val Val Glu Gly Gly Ile Gln Gly
 85 90 95
 Trp Lys Gln Ala Gly Leu Leu Thr Val Glu Asp Arg Ser Gln Pro Leu
 100 105 110
 Pro Leu Met Arg Gln Val Gln Ile Ala Ala Gly Leu Leu Ile Leu Cys
 115 120 125
 Gly Val Val Leu Gly Tyr Ser Val Ser Ser Gly Phe Phe Leu Leu Ser
 130 135 140
 Gly Phe Val Gly Ala Gly Leu Leu Phe Ala Gly Val Thr Gly Phe Cys
 145 150 155 160

Gly Met Ala Arg Leu Leu Lys Val Met Pro Trp Asn Arg Arg Thr
 165 170 175

<210> 10142

<211> 80

<212> PRT

<213> *Enterobacter cloacae*

<400> 10142

Met Ala Val Thr Leu Lys Leu Ala Thr Leu Arg Glu Val Ser Phe Ile
 1 5 10 15
 Ile Phe Asn Trp Leu Ala Cys Thr Glu Leu Phe Met Gly Phe Trp Arg
 20 25 30
 Val Leu Phe Thr Ile Ile Leu Pro Pro Leu Gly Val Leu Leu Gly Lys
 35 40 45
 Gly Leu Gly Trp Ala Phe Ile Leu Asn Ile Leu Leu Thr Ile Leu Gly
 50 55 60
 Tyr Phe Pro Gly Leu Ile His Ala Phe Trp Val Gln Thr Lys Ser
 65 70 75 80

<210> 10143

<211> 591

<212> PRT

<213> *Enterobacter cloacae*

<400> 10143

Phe His Gln Arg Gln Ala Thr Pro Asn Asp Arg Pro Asp Gln Pro His
 1 5 10 15
 Gln Pro Pro Ala Thr Gly Gly Ala Arg Ser Ala Gly Gly Arg His Arg
 20 25 30
 Asp Gly Leu Arg Ala Gly Leu Trp Arg Ala Arg Arg Ser Gly Gly Gly
 35 40 45
 Asp Asp Arg Gly Asp Gln Arg Gly Thr Gly Asp Arg Glu Arg Arg Gln
 50 55 60
 Pro Ser Ala Gly Asn Ser Arg Leu Arg Ala Arg His Arg Ser Gly Ser
 65 70 75 80
 Ala Val Ala Gly Ala Ala Val Pro Ala Ala Asp Arg Arg Arg His
 85 90 95
 Leu Gly Gln Gln Gln His Gln His Arg Ile Thr Gly Thr Arg Ile Cys
 100 105 110
 Leu Gln Arg Gly Glu Ser Ile Met Thr Thr Leu Phe Asn Gln Pro Leu
 115 120 125
 Asn Val Ile Asn Val Gly Ile Ala Met Phe Ser Asp Asp Leu Lys Lys
 130 135 140
 Gln His Val Pro Val Thr Gln Leu Asp Trp Thr Pro Pro Gly Gln Gly
 145 150 155 160
 Asn Met Gln Val Val Lys Ala Leu Asp Gln Leu Ala Glu Lys Pro Leu
 165 170 175
 Ala Glu Lys Ile Ala Ala Ala Asn Lys Ile Ala Leu Glu Arg Ile Ile
 180 185 190
 Gln Ser His Pro Val Leu Val Gly Tyr Asp Gln Ala Ile Asn Val Val
 195 200 205
 Pro Gly Met Thr Arg Thr Thr Ile Leu His Ala Gly Pro Pro Val Thr
 210 215 220
 Trp Glu Asn Met Cys Gly Ala Met Lys Gly Ala Val Thr Gly Ala Leu
 225 230 235 240
 Val Phe Glu Gly Leu Ala Thr Asp Leu Glu Asp Ala Ala Arg Leu Ala
 245 250 255
 Ala Ser Gly Asp Ile Thr Phe Ser Pro Cys His Glu His Asp Cys Val
 260 265 270
 Gly Ser Met Ala Gly Val Thr Ser Ala Ser Met Phe Met His Ile Val


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      275              280              285
Glu Asn Lys Thr Tyr Gly Asn Arg Ala Phe Thr Asn Leu Ser Glu Gln
290              295              300
Met Ala Lys Ile Leu Arg Met Gly Ala Asn Asp Gln Ser Val Ile Asp
305              310              315
Arg Leu Asn Trp Met Arg Asp Val Leu Gly Pro Met Leu Arg Asp Ala
325              330              335
Met Asn Ile Ile Gly Glu Ile Asp Leu Arg Leu Met Leu Ala Gln Ala
340              345              350
Leu His Met Gly Asp Glu Cys His Asn Arg Asn Asn Ala Gly Thr Thr
355              360              365
Leu Leu Ile Gln Ala Leu Thr Pro Gly Leu Ile Gln Ala Gly Tyr Ser
370              375              380
Val Thr Gln Gln Arg Glu Val Phe Glu Phe Val Ala Ser Ser Asp Tyr
385              390              395
Phe Ser Gly Pro Thr Trp Met Ala Met Cys Lys Ala Ala Leu Asp Ala
405              410              415
Ala His Gly Ile Glu Tyr Ser Thr Val Val Thr Thr Met Ala Arg Asn
420              425              430
Gly Tyr Glu Phe Gly Leu Arg Val Ser Gly Leu Pro Gly Gln Trp Phe
435              440              445
Thr Gly Pro Ala Gln Gln Val Ile Gly Pro Met Phe Ala Gly Tyr Lys
450              455              460
Pro Glu Asp Ser Gly Leu Asp Ile Gly Asp Ser Ala Ile Thr Glu Thr
465              470              475
Tyr Gly Ile Gly Gly Phe Ala Met Ala Thr Ala Pro Ala Ile Ala Ala
485              490              495
Leu Val Gly Gly Thr Val Glu Glu Ala Ile Asp Phe Ser Arg Gln Met
500              505              510
Arg Glu Ile Thr Leu Gly Glu Asn Pro Asn Val Thr Ile Pro Leu Leu
515              520              525
Ser Phe Met Gly Ile Pro Thr Ala Ile Asp Ile Thr Lys Val Ala Gly
530              535              540
Ser Gly Ile Leu Pro Val Ile Asn Thr Ala Ile Ala His Lys Asp Ala
545              550              555
Gly Ile Gly Met Ile Gly Ala Gly Ile Val His Pro Pro Phe Ser Cys
565              570              575
Phe Glu Lys Ala Leu Leu Thr Phe Arg Asp Arg Tyr Phe Leu
580              585              590

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<210> 10144

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 10144

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Arg Ser Ala Val Met Ser Gln Thr Thr Glu Lys Lys Pro Arg Leu Thr
1              5              10              15
Thr Ser Ala Met Ile Ala Ser Ile Ala Glu Gly Gln Glu Thr Arg
20              25              30
Ala Ala Pro Phe Gly His Ala Leu Val Lys Leu Ala Glu Gln Arg Pro
35              40              45
Glu Val Val Gly Met Thr Ala Asp Leu Ser Lys Tyr Thr Asp Leu His
50              55              60
Ile Phe Ala Gln Ala Tyr Pro Glu Arg Phe Phe Gln Met Gly Met Ala
65              70              75
Glu Gln Leu Leu Met Gly Ala Ala Gly Gly Met Ala Lys Glu Gly Phe
85              90              95
Ile Pro Phe Ala Thr Thr Tyr Ala Val Phe Ala Thr Arg Arg Ala Tyr
100              105              110
Asp Phe Ile His Gln Val Ile Ala Glu Glu His Leu Asn Val Lys Ile

```

```

      115              120              125
Cys Ala Ala Leu Pro Gly Leu Thr Thr Gly Tyr Gly Pro Ser His Gln
130              135              140
Ala Thr Glu Asp Ile Ala Ile Met Arg Gly Ile Pro Gly Met Thr Ile
145              150              155
Ile Asp Pro Cys Asp Ala Ile Asp Thr Glu Gln Ala Val Pro Ala Met
      165              170              175
Ala Ala His Asp Gly Pro Val Tyr Met Arg Leu Leu Arg Gly Lys Val
180              185              190
Pro Val Val Leu Asp Gln Tyr Asn Tyr Gln Phe Lys Ile Gly Lys Ala
195              200              205
Ala Leu Leu Glu Glu Gly Asn Asp Val Leu Ile Val Ala Ser Gly Leu
210              215              220
Met Thr Met Arg Ala Leu Glu Ala Ala Lys Gln Leu Arg Lys Asp Asn
225              230              235
Val Ser Val Ala Val Leu His Ser Pro Thr Ile Lys Pro Leu Asp Glu
      245              250              255
Glu Thr Ile Leu Ala Gln Ala Ala Lys Pro Gly Arg Leu Val Ile Val
260              265              270
Ala Glu Asn His Ser Ser Val Gly Gly Leu Cys Glu Ala Val Ala Ser
275              280              285
Leu Leu Met Arg Asn Arg Val Asn Val Asp Phe Asp Thr Val Ala Leu
290              295              300
Pro Asp Ala Phe Leu Asp Ala Gly Ala Leu Pro Thr Leu His Asp Arg
305              310              315
Tyr Gly Ile Ser Thr Thr Ala Met Val Glu Lys Ile Arg Arg Arg Leu
      325              330              335

```

<210> 10145

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 10145

```

Phe Asn Val Arg Cys Glu Gly Val Leu Gly Gly Lys Gly Tyr Ala Thr
1      5      10      15
Ala Gly Gln Arg Glu Ala Glu His Lys Thr Gln Ile Val Ser Gly Tyr
      20      25      30
Leu Trp Phe Asn Cys His Ile Glu Arg Asp Ala Cys Phe Leu Lys Leu
35      40      45
Pro Ala Ile Gly Gly Asn Val Arg Gly Arg Ala Pro Ala Asp Thr Pro
50      55      60
Met Ser Asp Gln Leu Thr Gly Met Arg Arg Cys Ala Val Cys Arg Gln
65      70      75      80
Ile Gly Arg

```

<210> 10146

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10146

```

Thr Met Asn Ile Asp Thr Asp Arg Leu Asp Asp Val Asn Ile Met Thr
1      5      10      15
Pro Ser Val Arg Arg Leu Asp Ala Ser Val Ala Ala Val Phe Lys Glu
      20      25      30
Ala Ile Ala Arg Glu Ile Gly Val Asp Arg Lys Ala Leu Ile Val Asp
35      40      45

```

```

Phe Ser Lys Ile Asp Phe Ile Asp Ser Ser Gly Leu Gly Ala Leu Val
  50      55      60
Ser Leu Leu Lys Met Met Asn Gly Lys Gly Glu Met Met Leu Cys Ala
  65      70      75
Leu Asn Pro Gly Ile Arg Asn Met Phe Thr Leu Thr Arg Met Asp Arg
      85      90      95
Ile Phe Arg Ile Cys Pro Asp Arg Ala Thr Ala Leu Ser His Leu Asn
      100     105     110
Gln

```

```

<210> 10147
<211> 97
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10147
Arg Glu Val Pro Met Ser Gly Lys Arg Tyr Pro Glu Glu Phe Lys Ile
  1      5      10      15
Glu Ala Val Lys Gln Val Val Asp Arg Gly His Ser Val Ser Ser Val
      20      25      30
Ala Thr Arg Leu Asp Ile Thr Thr His Ser Leu Tyr Ala Trp Ile Lys
      35      40      45
Lys Tyr Gly Pro Asp Ser Ser Thr His Asn Glu Gln Ser Asp Ala Gln
      50      55      60
Ala Glu Ile Arg Arg Leu Gln Lys Glu Leu Lys Arg Val Thr Asp Glu
      65      70      75      80
Arg Asp Ile Leu Lys Lys Ala Ala Ala Tyr Phe Ala Lys Leu Ser Asp
      85      90      95

```

```

<210> 10148
<211> 137
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 10148
Lys Pro Phe Phe Thr Asp Ile Val Thr Phe Gln His Val Arg Gln Leu
  1      5      10      15
Leu Leu Arg Ile Val Arg Val Glu Val Gly Lys Glu Thr Glu Ile Ala
      20      25      30
Thr Val Asn Thr Asn Asn Leu Asn Ile Ile Ala Ser Gln Arg Ser Arg
      35      40      45
Arg Ala Gln His Ile Ala Val Ala Thr Asp His His Gly Glu Ile Arg
      50      55      60
Leu Leu Ala Asn Phe Arg Gln Arg Ala Gly Ser Asp Ala Phe Lys Leu
      65      70      75      80
Gln Leu Leu Gly Asn Leu Leu Asp His His Phe Ile Ala Phe Thr
      85      90      95
Thr Gln Pro Ala Ile Gln His Phe Met Cys Arg Gln Cys Gly Arg Val
      100     105     110
Thr Arg Met Ala Asp Asp Pro Asn Thr Pro Glu Met Ile Ile His Phe
      115     120     125
Leu Glu Val Leu Val Pro Asp Glu
      130     135

```

```

<210> 10149
<211> 208
<212> PRT
<213> Enterobacter cloacae

```

<400> 10149

```

Asn Ile Gly Ser Leu Asn Met Ser Ala Thr Ala Leu Val Thr Glu Phe
1      5      10
Leu Leu Ala Ala Glu Gly Asn Ile Asp Ala Leu Lys Ala Cys Leu
      20      25      30
Glu Lys Gly Val Asp Ile Asn Val Thr Asn Arg Gln Lys Arg Thr Ala
      35      40      45
Ile Ile Ile Ala Ser Leu Lys Lys His Tyr Ala Cys Val Glu Phe Leu
      50      55      60
Ile Ala Ala Gly Ala Asp Ile Asp Lys Gln Asp Gln Thr Cys Phe Asn
65      70      75      80
Pro Phe Leu Ile Ser Cys Leu Thr Asn Asp Leu Thr Leu Leu Arg Ile
      85      90      95
Val Leu Pro Ala Asp Pro Asp Leu Asp Arg Leu Thr Arg Phe Gly Gly
      100      105      110
Val Gly Ile Thr Pro Ala Ser Glu Lys Gly His Val Glu Ile Val Arg
      115      120      125
Glu Leu Leu Glu Lys Thr Asp Ile Asn Val Asn His Thr Asn Phe Val
      130      135      140
Gly Trp Thr Thr Pro Leu Leu Glu Ala Ile Val Leu Asn Asp Gly Gly Ala
145      150      155      160
Lys Gln Gln Glu Ile Val Lys Leu Leu Leu Asp His Gly Ala Asn Pro
      165      170      175
His Met Thr Asp Lys Tyr Gly Lys Thr Pro Leu Glu Leu Ala Arg Glu
      180      185      190
Lys Gly Phe Asn Ala Ile Ala Asp Leu Leu Ala Ala Gly Ala
      195      200      205

```

<210> 10150

<211> 550

<212> PRT

<213> *Enterobacter cloacae*

<400> 10150

```

Arg Ile Arg Ser Ala Phe Pro Trp Leu Ala Val Thr Glu Lys Thr His
1      5      10      15
Cys Tyr Arg Arg Ala Phe Ser Thr Thr Ala Ala Pro Phe Tyr Leu Lys
      20      25      30
Gln Val Lys Ile Met Pro Thr Lys Ile Val Ile Lys Lys Asn Thr Tyr
      35      40      45
Phe Asp Ser Val Ser Leu Met Ser Val Ser Thr Lys Ala Asn Lys Leu
      50      55      60
Pro Gly Val Glu Gln Ala Phe Val Ala Met Ala Thr Glu Met Asn Lys
65      70      75      80
Gly Val Leu Lys Asn Leu Gly Leu Leu Thr Pro Glu Leu Ala Asp Ala
      85      90      95
Lys Asn Gly Asp Leu Met Ile Val Ile Lys Gly Asp Ala Ala Asn Asp
      100      105      110
Glu Thr Leu Ala Ala Ile Glu Ala Leu Phe Thr Arg Lys Glu Arg Thr
      115      120      125
Gly Ser His Glu Ala Arg Tyr Ala Ser Ile Ala Ser Ala Lys Thr His
      130      135      140
Arg Pro Asp Ser Asn Leu Ala Val Ile Ser Val Asn Gly Thr Phe Ala
145      150      155      160
Ala Arg Glu Ala Arg Gln Ala Leu Glu Asn Asp Leu Asn Val Met Leu
      165      170      175
Phe Ser Asp Asn Val Ser Leu Asp Asp Glu Leu Ala Leu Lys Gln Leu
      180      185      190
Ala His Glu Lys Gly Leu Leu Met Met Gly Pro Asp Cys Gly Thr Ala
      195      200      205

```

```

Ile Ile Asn Gly Ala Gly Leu Cys Phe Ala Asn Ala Val Arg Arg Gly
210 215 220
Pro Ile Gly Ile Val Gly Ala Ser Gly Thr Gly Ser Gln Glu Leu Ser
225 230 235 240
Val Arg Ile His Glu Phe Gly Gly Gly Val Ser Gln Leu Ile Gly Thr
245 250 255
Gly Gly Arg Asp Leu Ser Glu Lys Ile Gly Gly Leu Met Met Leu Asp
260 265 270
Ala Ile Asp Met Leu Glu Ala Asp Asp Ala Thr Arg Val Ile Ala Leu
275 280 285
Ile Ser Lys Pro Pro Ala Pro Ala Val Ala Glu Lys Val Leu Ala Arg
290 295 300
Ala Arg Ala Cys Arg Lys Pro Val Val Val Cys Phe Leu Gly Arg Asn
305 310 315 320
Glu Pro Pro Ala Asp Glu Asp Gly Leu Gln Phe Ala Arg Gly Thr Lys
325 330 335
Glu Ala Ala Leu Lys Ala Val Leu Leu Thr Gly Ile Lys Lys Asp Asp
340 345 350
Leu Asp Leu His Pro Leu Asn Trp Pro Leu Ile Glu Glu Val Arg Thr
355 360 365
Arg Leu Thr Ser Gln Gln Lys Tyr Ile Arg Gly Leu Phe Cys Gly Gly
370 375 380
Thr Leu Cys Asp Glu Ala Met Phe Ala Ala Leu Glu Lys Phe Asp Asp
385 390 395 400
Val Tyr Ser Asn Ile Gln Pro Asp Pro Ala Arg Arg Leu Lys Asp Ile
405 410 415
Ser Val Ser Gln Ala His Thr Phe Leu Asp Phe Gly Asp Asp Asp Phe
420 425 430
Thr Asn Gly Lys Pro His Pro Met Ile Asp Pro Thr Asn Arg Ile Ser
435 440 445
Arg Leu Leu Gln Glu Ala Arg Asp Pro Gln Val Gly Val Ile Val Met
450 455 460
Asp Phe Val Leu Gly Phe Gly Ala His Asp Asp Pro Val Gly Val Met
465 470 475 480
Ile Glu Ala Ile Lys Glu Ala Gln Ala Ile Ala Asn Ala Asp Asn Arg
485 490 495
Pro Leu Glu Ile Leu Gly Tyr Val Leu Gly Thr Asp Gln Asp Pro Gln
500 505 510
Ser Leu Ala Gln Gln Cys Gln Leu Leu Thr Asp Ala Gly Val Ile Trp
515 520 525
Ala Ser Ser Ser Thr Asn Thr Gly Leu Leu Ala Arg Glu Phe Val Cys
530 535 540
Lys Gly Glu Lys Ala
545 550

```

<210> 10151

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 10151

```

Gly His Gln Asn Ala Pro Ser Lys Gly Asn Lys Met Lys Glu Leu Met
1 5 10 15
Val Val Ala Ile Gly Gly Asn Ser Ile Ile Lys Asp Asn Ala Ser Gln
20 25 30
Ser Ile Glu His Gln Ala Gln Ala Val Lys Ala Val Ala Glu Ser Val
35 40 45
Leu Glu Met Leu Ala Ser Asp Tyr Asp Ile Val Leu Thr His Gly Asn
50 55 60
Gly Pro Gln Val Gly Leu Asp Leu Arg Arg Ala Glu Ile Ala His Glu
65 70 75 80

```

```

Arg Glu Gly Leu Pro Leu Thr Pro Leu Ala Asn Cys Val Ala Asp Thr
      85          90
Gln Gly Gly Ile Gly Tyr Leu Ile Gln Gln Ala Leu Asn Asn Arg Leu
      100         105      110
Ala Ala Arg Gly Glu Gln Lys Ala Val Thr Val Val Thr Gln Val Glu
      115         120      125
Val Asp Lys Asn Asp Pro Gly Phe Thr His Pro Thr Lys Pro Ile Gly
      130         135      140
Ala Phe Phe Ser Glu Ala Gln Arg Asp Glu Leu Gln Leu Ala His Pro
      145         150      155      160
Asp Trp His Phe Val Glu Asp Ser Gly Arg Gly Tyr Arg Arg Val Val
      165         170      175
Ala Ser Pro Gln Pro Leu Arg Ile Val Glu Ala Asp Ala Ile Lys Ala
      180         185      190
Leu Thr Gln Lys Gly Phe Val Val Ile Gly Ala Gly Gly Gly Ile
      195         200      205
Pro Val Val Arg Ser Glu Gln Gly Asp Tyr Gln Ser Val Asp Ala Val
      210         215      220
Ile Asp Lys Asp Leu Ser Thr Ala Leu Leu Ala Arg Glu Ile Arg Ala
      225         230      235      240
Asp Val Leu Val Ile Thr Thr Gly Val Glu Lys Val Cys Val Asn Phe
      245         250      255
Gly Lys Pro Asn Gln Gln Ala Leu Asp Ile Val Asn Val Ala Gln Met
      260         265      270
Thr Arg Tyr Met Asp Glu Gly His Phe Pro Ala Gly Ser Met Leu Pro
      275         280      285
Lys Ile Val Ala Ser Leu Glu Phe Leu Arg His Gly Gly Arg Arg Val
      290         295      300
Ile Ile Thr Ser Pro Asp Cys Leu Pro Ala Ala Leu Arg Gly Glu Thr
      305         310      315      320
Gly Thr His Ile Ile Asn Glu Gly Arg
      325          330

```

<210> 10152

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 10152

```

Val Met Ser Arg Ile Glu Gln Ala Val Pro Tyr Ile Lys Ala Lys Lys
1      5          10      15
Thr Asn Tyr Arg Phe Val Val Leu Ala Leu Ile Phe Ile Val Tyr Ala
      20         25      30
Ile Asn Tyr Ala Asp Arg Thr Asn Ile Gly Ala Val Leu Pro Phe Ile
      35         40      45
Ile Asp Glu Phe His Ile Asn Asn Phe Glu Ala Gly Ala Ile Ala Ser
      50         55      60
Met Phe Phe Leu Gly Tyr Ala Leu Ser Gln Ile Pro Ala Gly Phe Phe
      65         70      75      80
Ile Ala Lys Lys Gly Ile Arg Gly Met Val Ala Leu Ser Ile Phe Gly
      85         90      95
Phe Ser Ala Phe Thr Trp Leu Met Gly Thr Ala Thr Ser Val Leu Gly
      100        105      110
Leu Lys Cys Ile Arg Leu Gly Leu Gly Leu Thr Glu Gly Pro Cys Pro
      115        120      125
Val Gly Leu Ala Ser Thr Ile Asn Asn Trp Phe Pro Pro Lys Glu Lys
      130        135      140
Ala Thr Ala Thr Gly Val Tyr Ile Ala Ala Thr Met Phe Ala Pro Ile
      145        150      155      160
Leu Val Pro Pro Leu Ala Val Trp Ile Ala Met Thr Trp Gly Trp Arg
      165        170      175

```

Trp Val Phe Phe Ser Phe Ala Ile Pro Gly Leu Val Ile Ala Val Leu
 180 185 190
 Trp Tyr Leu Leu Val Arg Thr Arg Pro Ser Glu Ser Ala Phe Val Ser
 195 200 205
 Lys Ala Glu Leu Glu Thr Ile Thr Ala Gly Gln Glu Thr Pro Asp Ala
 210 215 220
 Arg Arg Glu Asn Ile Val Ile Ser Pro Gly Phe Ala Arg Leu Asp Arg
 225 230 235 240
 Leu Ile Arg Val Arg Glu Leu Ala Pro Val Ser Thr Val Lys Gly Leu
 245 250 255
 Phe Thr Ser Lys Asn Ile Leu Gly Asp Cys Leu Ala Tyr Phe Met Met
 260 265 270
 Val Ser Val Leu Tyr Gly Leu Leu Thr Trp Ile Pro Leu Tyr Leu Val
 275 280 285
 Lys Glu Lys Gly Phe Thr Phe Met Ser Met Gly Leu Val Ala Ser Met
 290 295 300
 Pro Cys Ile Gly Gly Phe Ile Gly Ala Ile Phe Gly Gly Tyr Val Ser
 305 310 315 320
 Asp Lys Leu Leu Gly Arg Arg Arg Lys Pro Thr Met Met Phe Thr Ala
 325 330 335
 Ile Ser Thr Val Leu Met Met Val Ile Met Leu Asn Ile Pro Gln Ser
 340 345 350
 Thr Val Ala Val Cys Val Gly Leu Phe Phe Val Gly Leu Cys Leu Asn
 355 360 365
 Ile Gly Trp Pro Ala Phe Thr Ala Tyr Gly Met Ala Val Ala Asp Ser
 370 375 380
 Lys Thr Tyr Pro Ile Ala Ala Ser Ile Ile Asn Ser Gly Gly Asn Leu
 385 390 395 400
 Gly Gly Phe Val Ser Pro Met Leu Ala Gly Tyr Leu Leu Asp Lys Thr
 405 410 415
 Gly Ser Phe Asn Ser Val Phe Ile Tyr Phe Gly Ile Cys Ala Ala Ile
 420 425 430
 Gly Leu Ile Met Ile Met Leu Leu Glu Glu Pro Lys
 435 440 445

<210> 10153

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 10153

Trp Ser Lys Cys Met Leu Leu Lys Asn Lys Val Ala Val Ile Thr Gly
 1 5 10 15
 Ala Ala Ser Val Arg Gly Leu Gly Phe Ala Thr Ala Lys Leu Tyr Ala
 20 25 30
 Glu Gln Gly Ala Lys Val Val Ile Ile Asp Leu Asn Ala Glu Ala Ser
 35 40 45
 Arg Ala Ala Ala Ala Ser Leu Gly Asp Glu His Leu Gly Leu Ala Ala
 50 55 60
 Asn Val Ser Asn Glu Leu Gln Val Asn Ala Ala Ile Glu Gln Val Leu
 65 70 75 80
 Gly Lys Tyr Gly Arg Ile Asp Ile Leu Val Asn Asn Ala Gly Ile Thr
 85 90 95
 Gln Pro Ile Lys Leu Met Asp Ile Lys Arg Glu Asn Tyr Asp Ala Val
 100 105 110
 Leu Asp Val Ser Leu Arg Gly Thr Leu Leu Met Ser Gln Ala Val Ile
 115 120 125
 Pro Thr Met Arg Ala Gln Lys Ser Gly Ser Ile Val Cys Ile Ser Ser
 130 135 140
 Val Ser Ala Gln Arg Gly Gly Gly Ile Phe Gly Gly Pro His Tyr Ser
 145 150 155 160

Ala Ala Lys Ala Gly Val Leu Gly Leu Ala Lys Ala Met Ala Arg Glu
 165 170 175
 Leu Gly Pro Asp Asn Val Arg Val Asn Cys Ile Thr Pro Gly Leu Ile
 180 185 190
 Gln Thr Asp Ile Thr Ala Gly Lys Leu Ser Asp Glu Met Lys Thr Ser
 195 200 205
 Ile Leu Ala Gly Ile Pro Leu Asn Arg Leu Gly Asp Ala Gln Asp Ile
 210 215 220
 Ala Arg Ala Ala Leu Phe Leu Gly Ser Asp Leu Ser Ser Tyr Ser Thr
 225 230 235 240
 Gly Ile Thr Leu Asp Val Asn Gly Gly Met Leu Ile His
 245 250

<210> 10154

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 10154

Gly Asp Thr Thr Met Thr Asp Thr Thr Val Gln Gln Val Ala Ala Ala
 1 5 10 15
 Ala Trp Arg Ile Arg Arg Tyr Ala Leu Arg Met Gly Glu Val Gln Gly
 20 25 30
 Gln Gly Tyr Ile Gly Gln Ala Leu Gly Tyr Ala Asp Val Leu Ala Thr
 35 40 45
 Ala Phe Thr His Gly Met Asn Leu Lys Pro Gly Glu Pro Glu Trp Glu
 50 55 60
 Gly Arg Asp Arg Phe Leu Leu Ser His Gly His Tyr Ala Ile Ala Cys
 65 70 75 80
 Tyr Ala Ala Leu Ile Glu Ala Gly Ile Val Pro Glu Glu Glu Leu Glu
 85 90 95
 Thr Tyr Gly Ala Asp Asp Ser Arg Leu Pro Met Ser Gly Met Ala Thr
 100 105 110
 Tyr Thr Pro Gly Met Glu Ile Ser Gly Gly Ser Leu Gly Gln Gly Leu
 115 120 125
 Ser Ile Gly Val Gly Met Ala Leu Gly Leu Lys Arg Lys Gln Ser Ala
 130 135 140
 Ala Trp Val Val Asn Ser Met Ser Asp Gly Glu Leu Asp Glu Gly Ser
 145 150 155 160
 Thr Trp Glu Ala Ala Met Ser Ala Ala His Gly Leu Ser Asn Leu
 165 170 175
 Ile Val Leu Val Asp Ile Asn Arg Gln Gln Ala Asp Gly Asn Ser His
 180 185 190
 Ala Ile Leu Gly Phe Glu Pro Leu Glu Asp Lys Trp Thr Ser Phe Gly
 195 200 205
 Trp Tyr Val Gln Arg Val Asn Gly Asn Asp Val Pro Ser Leu Val Thr
 210 215 220
 Ala Phe Asp Asn Ala Lys Arg Tyr Pro Glu Asn Gln Pro Arg Val Ile
 225 230 235 240
 Leu Cys Asp Thr Leu Met Gly Lys Gly Val Pro Phe Leu Glu Lys Arg
 245 250 255
 Asp Lys Asn His Phe Ile Arg Val Asp Ala Asp Glu Trp Gln Lys Ala
 260 265 270
 Leu Ala Val Leu Asp Ala Asn Lys Pro Glu Gly Val Leu
 275 280 285

<210> 10155

<211> 395

<212> PRT

<213> Enterobacter cloacae

<400> 10155

Arg Met Ser Ala Asn Lys Leu Ala Ser Ser Ala Gln Gly Leu Gln Ser
 1 5 10 15
 Ser Ala Ile Arg Glu Leu Leu Lys His Ser Lys Met Ala Gly Val Ile
 20 25 30
 Ser Leu Gly Gly Gly Ile Pro Asn Pro Asp Leu Phe Asp His Glu Gly
 35 40 45
 Leu Lys Ile Ala Ala Asp Ala Val Leu Ser Gln His Phe Gly Glu Ala
 50 55 60
 Phe Gln Tyr Gly Leu Thr Glu Gly Val Pro Gly Leu Arg Glu Glu Ile
 65 70 75 80
 Gln Arg Ile Cys Glu Gly Arg Gly Ile Ala Cys Lys Ala Asp Asp Val
 85 90 95
 Val Ile Thr Ser Gly Ser Gln Gln Ser Leu Asp Val Leu Ala Arg Ala
 100 105 110
 Leu Ile Asn Pro Gly Asp Thr Val Val Val Glu Arg Pro Thr Tyr Leu
 115 120 125
 Ala Ala Leu Gln Val Phe Gly Leu Ala Gln Ala Lys Phe Glu Ser Val
 130 135 140
 Gly Thr Asp Gly Asp Gly Met Lys Val Asp Glu Leu Glu Ala Leu Val
 145 150 155 160
 Ala Thr Lys Thr Ile Lys Ala Val Tyr Ile Val Pro Thr Phe Gly Asn
 165 170 175
 Pro Gly Gly Val Thr Leu Ser Glu Ala Arg Arg Lys Gln Leu Val Glu
 180 185 190
 Leu Ser Lys Arg Tyr Asp Phe Val Ile Ile Glu Asp Asp Pro Tyr Ser
 195 200 205
 Glu Ile Asn Tyr Thr Asp Glu Ala Phe Arg Pro Leu Ile Ala His Ala
 210 215 220
 Lys Asp Ile Gly Asn Glu Asp Asn Val Val Tyr Thr Ser Thr Phe Ser
 225 230 235 240
 Lys Ile Leu Ala Pro Gly Thr Arg Val Gly Trp Val Leu Val Pro Glu
 245 250 255
 Trp Leu Lys Arg Ala Val Val Asn Leu Lys Gln Thr Thr Asp Leu His
 260 265 270
 Thr Ser Thr Leu Ser Gln Leu Met Thr Tyr Glu Tyr Leu Lys Thr Gly
 275 280 285
 Arg Leu Ala Asn Gln Ile Lys Met Ile Arg Glu Ala Tyr Arg Gln Lys
 290 295 300
 Tyr Gln Thr Phe Ala Thr Glu Leu Glu Ala Glu Gly Asp Val Met
 305 310 315 320
 Ser Phe His Lys Pro Lys Gly Gly Met Phe Leu Trp Ala Lys Met Asn
 325 330 335
 Asn Gly Ile Asn Thr Thr Lys Trp Leu Glu Lys Thr Leu Ser Asn Gly
 340 345 350
 Val Val Phe Val Pro Gly Glu Phe Phe Tyr Cys Asn Glu Pro Asp His
 355 360 365
 Thr Thr Leu Arg Met Ser Phe Val Thr Pro Thr Asp Glu Gln Leu Lys
 370 375 380
 Glu Ala Val Arg Arg Leu Arg Ile Ser Leu
 385 390 395

<210> 10156

<211> 145

<212> PRT

<213> *Enterobacter cloacae*

<400> 10156

Ile Ser Glu Leu Thr Val Ala Asn Asp Val Thr Phe Pro Ala Thr Leu
 1 5 10 15
 Thr Ser Val Ser Pro Leu Ala Ala Trp Leu Glu Arg Gln Met Ala Ser

145

$\langle 211 \rangle$ 400

<213> Ent

1	The	Pro	Leu	Thr	5	Gly	Cys	Gly	Phe	Leu	Leu	Ser	Glu	Asn	Arg	Ala
Gly	Val	Tyr	Met	20	Ser	Ser	Thr	Glu	Ala	Thr	Asn	Lys	Ala	Pro	Ala	Val
	35	Lys	Ser	Ser	Val	Lys	Ser	Leu	Lys	Glu	Glu	Pro	Val	Leu	Gln	
Val	Glu	Arg	Arg	Asp	Phe	Val	Asp	Leu	Val	Pro	Glu	Lys	Arg	Pro	Arg	
Val	Gln	Ser	Leu	Arg	Gly	Phe	Asp	Asp	Cys	Tyr	Thr	Asp	Ile	Val	Asp	
	65	Thr	Ile	Val	Arg	Cys	Thr	His	Lys	Ile	Trp	Asp	Glu	Arg	Asp	Val
Leu	Ile	Tyr	Ser	His	Tyr	Thr	His	Asn	Cys	Val	Leu	Tyr	Asn	Ala	Leu	
Gly	Thr	Leu	Tyr	Asn	Arg	Glu	Gln	Val	Val	Gln	Asp	Thr	Leu	Gln	Arg	
Leu	Ile	Ala	Phe	Pro	Glu	Arg	Arg	Gly	Met	Ala	Thr	Gln	Val	Ile	Trp	
Asn	Gly	Asn	Asp	Val	Asp	Gly	Phe	Tyr	Thr	Ser	His	Leu	Val	Thr	Gly	
145	Ser	Gly	Arg	His	Thr	Gln	His	Ser	His	Leu	Gly	Lys	Pro	Thr	Asn	Arg
Thr	Phe	Val	Thr	Arg	Thr	Val	Ala	Asp	Cys	Met	Ile	His	Glu	Asn	Lys	
Ile	Tyr	Arg	Glu	Trp	Val	Val	Ser	Asp	Asn	Met	Ser	Leu	Met	Lys	Gln	
Leu	Gly	Leu	Asn	Thr	Asp	Gln	Ile	Ala	Phe	Asn	Met	Ala	Lys	Glu	Gln	
225	Phe	Asp	Lys	Gly	Phe	Arg	Val	Met	Asp	Ile	Gly	Glu	Asn	Gly	Arg	Met
Leu	Gly	Gln	Tyr	Pro	Pro	Glu	Met	Glu	Cys	Asp	Val	Ser	Ile	Ala	His	
Thr	Asp	Thr	Glu	Glu	Gln	Cys	Leu	Arg	Trp	Leu	His	Glu	Ile	Tyr	Asn	
Arg	Arg	Met	Phe	Gly	Lys	Ile	Lys	Glu	Val	Tyr	Ala	Pro	Asn	Val	Gln	
Trp	His	Gly	Pro	Leu	Met	Lys	Gln	Leu	Tyr	Gly	Thr	Ala	Ala	Val	Thr	

290		295		300
His Gln Thr Leu Ala Leu Val Gly Met Ile Pro Asp Gly Ala Trp Leu				
305		310		315
Pro Gln His Ile Cys Ser Asn Pro Cys Asp Glu Gly Gly Val Lys Val				
	325		330	335
Ala Val Arg Trp Ile Ile Glu Gly His His Leu Gly Tyr Gly Glu Leu				
	340		345	350
Gly Lys Pro Thr Gly Glu Arg Leu Phe Val Met Gly Met Ser His Tyr				
	355		360	365
His Ile Val Asn Gly Lys Ile Val Asp Glu Trp Val Val Tyr Asp His				
	370		375	380
Leu Ala Leu Leu Ala Gln Ile Lys Leu Gly Gln Met Glu Asp Ala				
385	390		395	400

<210> 10158

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 10158

Met Leu Asn Gln Val Ser Trp Ile Lys Arg Pro Gln Gly Gln Asp Ala				
1	5	10	15	
Gln Ala Asp Arg Ser Leu Thr Glu Lys Val Ser Ala Ile Ile Glu Arg				
	20	25	30	
Val Lys Thr Glu Gly Asp Thr Ala Leu Arg Ala Phe Ser Gln Gln Phe				
	35	40	45	
Asp Lys Val Val Pro Ala Gln Phe Glu Val Ser Glu Gln Glu Ile Ala				
	50	55	60	
Glu Ala Leu Glu Gly Met Asp Ala Gln Thr Arg Arg Asp Ser Glu Phe				
65	70	75	80	
Ala Ile Asn Gln Val Cys Arg Phe Ala Gln Ala Gln Leu Ala Thr Met				
	85	90	95	
Gln Pro Leu Glu Val Glu Thr Leu Pro Gly Val His Leu Gly His Arg				
	100	105	110	
Ile Ile Pro Val Gln Thr Val Gly Cys Tyr Val Pro Gly Gly Arg Tyr				
	115	120	125	
Pro Ile Leu Ser Ala Pro Val Met Ser Ile Val Pro Ala Thr Val Ala				
	130	135	140	
Gly Cys Glu Gln Ile Ile Ala Cys Leu Pro Pro Gly Ala His Pro Ala				
145	150	155	160	
Met Ile Ala Val Cys His Leu Ala Gly Ala His Arg Ile Phe Lys Val				
	165	170	175	
Gly Gly Ala Gln Ala Ile Ala Ala Met Ala Trp Gly Thr Glu Ser Ile				
	180	185	190	
Pro Ser Val Asp Lys Ile Val Gly Pro Gly Asn Ala Phe Val Asn Glu				
	195	200	205	
Ala Lys Arg Gln Val Phe Gly Arg Val Gly Ile Asp Ala Leu Ala Gly				
	210	215	220	
Pro Ser Glu Ile Phe Thr Ile Ala Asp Asp Ser Ala Asp Pro Arg Ile				
225	230	235	240	
Leu Ala Ala Asp Met Leu Ala Gln Ala Glu His Asp Ile His Thr Arg				
	245	250	255	
Val Gly Leu Ala Thr Thr Ser Arg Asp Ile Ala Glu Arg Thr Leu Ala				
	260	265	270	
Glu Val Glu Arg Gln Leu Ala Ser Leu Pro Thr Ala Ala Thr Ala Gly				
	275	280	285	
Glu Ala Trp Arg Arg Gln Gly Glu Ile Val Leu Cys Glu Asp Glu Ala				
	290	295	300	
Gln Leu Ile Ala Phe Ala Asp His Met Ala Thr Glu His Leu Gln Val				
305	310	315	320	
His Thr Arg Asp Pro His Ala Thr Ala Ala Lys Ile Arg Asn Tyr Gly				

```
<210> 10159
<211> 455
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```

          325          330          335
Ala Pro Phe Leu Arg Gln Met Leu Ala Ser Asn Thr Leu Lys Thr Pro
          340          345          350
Leu Trp Leu Ala Gly Arg Arg Phe Gln Arg Leu Leu Arg Gln Asn Leu
          355          360          365
Cys Gln Val Ala Glu Ala Gln Arg Ile Asp Gly Phe Val Tyr Pro Thr
          370          375          380
Val Gln Arg Leu Pro Glu Ser Met Ala Lys Met Pro Pro Gly Cys Ala
          385          390          395          400
Pro Glu Leu Ala Ala Ile Ser Gly Leu Pro Ala Ile Thr Leu Pro Cys
          405          410          415
Gly Val Ser Arg Ile Gly Leu Pro Val Gly Met Glu Met Leu Ser Val
          420          425          430
Gln Glu Asp Glu Ala Ala Leu Met Val Leu Ala Leu Ala Cys Glu Gly
          435          440          445
Ala Leu Gly Glu Lys Gly
          450          455

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<210> 10160

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 10160

```

Met Leu Leu Phe Val Cys Cys Val Thr Met Glu Asn Ala Met Pro Gln
1          5          10          15
Ile Ser Arg Thr Ala Leu Val Pro Tyr Ser Ala Glu Gln Met Tyr Gln
          20          25          30
Leu Val Asn Asp Val Gln Ser Tyr Pro Glu Phe Ile Pro Gly Cys Thr
          35          40          45
Gly Ser Arg Val Leu Glu Ser Gly Pro Thr Gln Met Thr Ala Ala Val
          50          55          60
Asp Val Ser Lys Ala Gly Ile Ser Lys Thr Phe Thr Thr Arg Asn Thr
          65          70          75          80
Leu Thr Ser Asn Gln Ser Ile Leu Met His Leu Val Asp Gly Pro Phe
          85          90          95
Lys Lys Leu Met Gly Gly Trp Lys Phe Thr Pro Leu Ser Ala Asp Ala
          100          105          110
Cys Arg Ile Glu Phe His Leu Asp Phe Glu Phe Thr Asn Lys Leu Ile
          115          120          125
Glu Leu Ala Phe Gly Arg Ile Phe Lys Glu Leu Ala Ser Asn Met Val
          130          135          140
Gln Ala Phe Thr Thr Arg Ala Lys Glu Val Tyr Ser Val Ala
          145          150          155

```

<210> 10161

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10161

```

Asp Pro Ser Gly Arg Leu Ala Lys Gly Ile Ile Pro Trp Asp Val Leu
1          5          10          15
Gly Arg Ser Gly Trp Glu Lys Phe Arg Gly Cys Ser Val Lys Lys Asn
          20          25          30
Ala Ala Ser Gln Ala Glu Leu Glu Arg Gln Arg Ala Glu Gln Gln Asp
          35          40          45
Lys Ile Asn Ala Leu Leu Glu Leu Met Lys Ala Asp Gly Ile Ser Pro
          50          55          60
Ser Asp Leu Leu Gly Ser Asp Leu Ala Gln Ala Gly Gln Pro Thr Lys
          65          70          75          80

```

Lys Arg Lys Ala Arg Ala Ala Lys Tyr Arg Phe Ile Asp Ala Asn Gly
 85 90 95
 Glu Glu Lys Thr Trp Thr Gly Gln Gly Arg Thr Pro Lys Pro Ile Ala
 100 105 110
 Thr Ala Leu Ala Asn Gly Lys Ser Leu Asp Asp Phe Leu Ile
 115 120 125

<210> 10162

<211> 544

<212> PRT

<213> Enterobacter cloacae

<400> 10162

Lys Gly Ala Val Asp Leu Pro Arg Ser Leu Leu Phe Ile Arg His Ala
 1 5 10 15
 Ser Met Lys Asn Met Lys Leu Glu Trp Lys Arg Gly Asp Trp Ala Ala
 20 25 30
 Tyr Phe Gly Leu Met Thr Asn Asn Leu Thr Asn Leu Leu Thr Met Met
 35 40 45
 Gly Leu Leu Ile Phe Val Val Gly Ile Pro Lys Glu Ile Val Tyr Gly
 50 55 60
 Arg Ile Ala Pro Ala Phe Gly Leu Ala Val Leu Val Ala Ser Leu Cys
 65 70 75 80
 Tyr Thr Trp Phe Gly Leu Gln Met Ala Arg Ala Thr Gly Arg Thr Asp
 85 90 95
 Val Thr Ala Leu Pro Ser Gly Pro Ser Ala Pro Ser Ile Phe Thr Val
 100 105 110
 Thr Phe Leu Val Leu Met Pro Val Tyr Gln Gln Thr Gly Asp Ala Asp
 115 120 125
 Phe Ala Ile Gln Ile Gly Leu Val Trp Cys Phe Val Glu Ala Met Ile
 130 135 140
 Leu Ala Gly Gly Ser Phe Leu Gly Glu Thr Ile Arg Lys Met Ile Pro
 145 150 155 160
 Arg Thr Val Leu Leu Ser Cys Leu Ser Gly Leu Gly Leu Leu Leu Leu
 165 170 175
 Ala Met Asn Pro Met Leu Gln Ala Phe Glu Ala Pro Thr Val Ser Phe
 180 185 190
 Ile Val Leu Leu Leu Ile Phe Ile Asn Trp Phe Gly Lys Lys Pro Ile
 195 200 205
 Phe Ala Arg Ile Pro Thr Gly Leu Leu Leu Ile Ala Gly Thr Leu
 210 215 220
 Leu Ala Trp Ile Ser Gly Leu Gln Ser Pro Asp Ala Ile Lys Ala Ser
 225 230 235 240
 Met Ser Ser Phe Gly Phe Asn Pro Pro Glu Val His Val Asp Ser Phe
 245 250 255
 Met Gln Gly Leu Pro His Ala Leu Pro Tyr Leu Ala Ser Ala Val Pro
 260 265 270
 Leu Gly Leu Ala Asn Tyr Ile Phe Asp Leu Glu Asn Ile Glu Ser Ala
 275 280 285
 His Ala Ala Gly Asp Glu Tyr Pro Thr Arg Lys Val Met Leu Ala Asn
 290 295 300
 Gly Leu Ala Ser Met Leu Gly Cys Leu Met Gly Asn Pro Phe Pro Val
 305 310 315 320
 Thr Val Tyr Val Gly His Pro Gly Trp Lys Ala Met Gly Ala Ser Ile
 325 330 335
 Gly Tyr Thr Leu Ala Ser Gly Val Thr Met Phe Ile Val Pro Leu Phe
 340 345 350
 Gly Leu Gly Ala Phe Met Leu Ala Ile Ile Pro Met Thr Ala Ile Val
 355 360 365
 Pro Ile Leu Val Phe Ile Gly Val Val Thr Ala Asn Gln Val Val Arg
 370 375 380

Glu Thr Pro Lys Val Glu Val Pro Val Ile Phe Ile Cys Leu Phe Pro
 385 390 395 400
 Trp Ile Ala Asn Trp Ala Leu Thr Met Met Asn Ser Val Met Ser Ala
 405 410 415
 Ala Gly Thr Ser Ala Ala Lys Ile Gly Thr Asp Val Leu His Ser Lys
 420 425 430
 Gly Ile Tyr Trp Glu Gly Leu Met His Leu Gly Asn Gly Ala Pro Leu
 435 440 445
 Ala Ser Met Leu Trp Gly Cys Ile Ala Ile Phe Ala Ile Leu Asn Lys
 450 455 460
 Pro Leu Arg Gly Ala Val Ala Ala Gly Gly Ala Leu Leu Ala Leu
 465 470 475 480
 Phe Gly Val Ile His Ala Pro Val Val Gly Phe Ala Glu Gly Ser Ser
 485 490 495
 Leu Met Phe Val Thr Ala Tyr Leu Met Met Gly Gly Met Phe Val Val
 500 505 510
 Lys His Val Leu Asp Thr Ser Val Asn Pro Pro Leu Pro Val Gly Glu
 515 520 525
 Gly Arg Gly Glu Gly Thr Arg Thr His Leu Leu Lys Glu Thr Lys
 530 535 540

<210> 10163

<211> 486

<212> PRT

<213> Enterobacter cloacae

<400> 10163

Ser Ser Pro Arg Arg Thr Ala Cys Pro Gln Arg Cys Ala Val Lys Arg
 1 5 10 15
 Val Pro Ile Leu Leu Met Lys Glu Asp Lys Met Ser Glu Asn Lys Ser
 20 25 30
 Arg Arg Glu Phe Ile Ser Gln Ser Gly Lys Met Val Thr Ala Cys Ala
 35 40 45
 Leu Phe Gly Ala Thr Gly Ser Val Ala Tyr Ala Ala Asp Ser Val Lys
 50 55 60
 Ala Thr Cys Glu Thr Gly Lys Pro Met Asn Ile Thr Ala Lys His Tyr
 65 70 75 80
 Tyr Leu Asp Asn Val Leu Leu Glu Ala Gly Phe Asn Tyr Asp Gly Ser
 85 90 95
 Val Ala Thr Ser Thr Arg Thr Glu Leu Lys Thr Leu Glu Ile Lys Asp
 100 105 110
 Gly Lys Ile Val Ala Leu Arg Asp Asn Gly Ser His Ala Asp Ala Thr
 115 120 125
 Leu Pro His Tyr Asp Ala Gly Lys Lys Leu Met Leu Pro Ala Met Arg
 130 135 140
 Asp Met His Ile His Leu Asp Lys Thr Phe Tyr Gly Gly Pro Trp Arg
 145 150 155 160
 Ser Leu Asn Arg Pro Ala Gly Thr Thr Ile Gln Asp Met Ile Arg Leu
 165 170 175
 Glu Gln Lys Leu Leu Pro Glu Leu Gln Pro Tyr Thr Gln Glu Arg Ala
 180 185 190
 Glu Lys Leu Ile Asp Leu Ile Gln Ser Lys Gly Ser Thr Ile Ala Arg
 195 200 205
 Ser His Cys Asn Ile Glu Pro Val Ser Gly Leu Lys Asn Leu Glu Asn
 210 215 220
 Leu Gln Ala Val Leu Ala Arg Arg Gly Ala Gly Phe Asp Cys Glu Ile
 225 230 235 240
 Val Ala Phe Pro Gln His Gly Leu Leu Leu Ser Asn Ser Glu Lys Leu
 245 250 255
 Met Arg Glu Ala Met Gln Ala Gly Ala His Tyr Val Gly Gly Leu Asp
 260 265 270

Pro Thr Ser Val Asp Gly Ala Met Glu Lys Ser Leu Asp Thr Met Phe
 275 280 285
 Gln Ile Ala Leu Asp Tyr Asp Lys Gly Val Asp Ile His Leu His Glu
 290 295 300
 Thr Ser Pro Ala Gly Val Ala Ala Val Asn Tyr Met Val Glu Thr Val
 305 310 315 320
 Glu Lys Thr Pro Ala Leu Lys Gly Lys Leu Thr Ile Ser His Ala Phe
 325 330 335
 Ala Leu Ala Thr Leu Asn Glu Gln Gln Val Asp Glu Ile Ala Thr Arg
 340 345 350
 Met Ala Ala Gln Gln Val Thr Ile Ala Ser Thr Val Pro Ile Gly Thr
 355 360 365
 Leu His Met Pro Leu Lys Gln Leu Arg Asp Lys Gly Val Phe Val Met
 370 375 380
 Thr Gly Thr Asp Ser Val Ile Asp His Trp Ser Pro Tyr Gly Leu Gly
 385 390 395 400
 Asp Met Leu Glu Lys Ala Asn Leu Tyr Ala Gln Leu Tyr Ile Arg Pro
 405 410 415
 Asn Glu Gln Thr Leu Ser Arg Ala Leu Gly Ile Ala Thr Gly Asp Val
 420 425 430
 Leu Pro Leu Asn Asp Lys Gly Glu Arg Val Trp Pro Lys Ala Gln Asp
 435 440 445
 Asp Ala Ser Phe Val Leu Val Asp Ala Ser Cys Ser Ala Glu Ala Val
 450 455 460
 Ala Arg Ile Ser Pro Arg Thr Ala Thr Phe His Lys Gly Asn Leu Val
 465 470 475 480
 Trp Gly Thr Val Ala
 485

<210> 10164

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 10164

Pro Leu Arg Asp Leu Asn His Ser His Gly Gly Glu Asn Pro Ala Gln
 1 5 10 15
 Ala Val Ile Tyr Lys Thr Asp Thr Leu Ser Thr Gly Glu Gly Cys Phe
 20 25 30
 Thr Leu Ala Thr Val Ala Ile Lys Glu Ser Val Met Ala Gln Asn Ile
 35 40 45
 Tyr Asp Asn Pro Ala Phe Phe Glu Gly Tyr Ala Gln Leu Pro Arg Ser
 50 55 60
 Val Gln Gly Leu Asn Gly Ala Pro Glu Trp Pro Ala Leu Lys Ala Met
 65 70 75 80
 Leu Pro Asp Leu Thr Gly Lys Ala Val Val Asp Leu Gly Cys Gly Tyr
 85 90 95
 Gly Trp Phe Cys Arg Ala Ala Arg Glu Leu Gly Ala Ser Asp Val Thr
 100 105 110
 Gly Val Asp Ile Ser Glu Lys Met Leu Ala Arg Ala Ala Glu Leu Thr
 115 120 125
 Asp Asp Asn Arg Ile His Tyr Gln Arg Ser Asp Leu Glu Ser Leu Ala
 130 135 140
 Leu Lys Ala Asn Ser Leu Asp Leu Val Tyr Ser Ser Leu Ala Leu His
 145 150 155 160
 Tyr Leu Pro Glu Leu Asp Thr Leu Phe Ala Asn Val Gln Arg Ala Leu
 165 170 175
 Lys Pro Gly Gly Ser Leu Val Phe Ser Met Glu His Pro Ile Tyr Thr
 180 185 190
 Cys Ala Thr Arg Gln Gly Trp Leu Thr Asp Asp Ser Gly Glu Arg Phe
 195 200 205

Trp Gly Val Asn His Tyr Gln Asp Glu Ser Gln Arg Val Ser Asn Trp
 210 215 220
 Leu Ala Asp Gly Val Ile Lys Tyr His Arg Thr Leu Gly Thr Thr Leu
 225 230 235 240
 Asn Ala Leu Ile Lys Ala Gly Leu Thr Ile Ser Glu Val Asn Glu Trp
 245 250 255
 Gly Pro Thr Gln Met Gln Val Asp Ala Trp Pro Ala Leu Ala Glu Glu
 260 265 270
 Ala Glu Arg Pro Met Leu Val Leu Ile Ala Ala Arg Lys Ala
 275 280 285

<210> 10165

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 10165

Pro Glu Val Arg Asn Met Asp Lys Leu Arg Gly Met Glu Thr Phe Ile
 1 5 10 15
 Ala Val Val Glu Ser Gly Ser Phe Thr Gly Ala Ala Arg Leu Glu
 20 25 30
 Met Ser Ala Val Met Val Gly Lys Tyr Ile Thr Gln Leu Glu Ser Gln
 35 40 45
 Leu Gly Thr Arg Leu Leu Glu Arg Asn Thr Arg Arg Glu Ser Leu Thr
 50 55 60
 Asp Ala Gly Arg Val Tyr Phe Val Glu Ala Arg Arg Val Leu Glu Gln
 65 70 75 80
 Val Ser Ile Ala Glu Asn Ala Val Glu Arg Leu Arg Ala Thr Pro Ala
 85 90 95
 Gly Thr Leu Arg Val Thr Ala Pro Thr Ser Phe Gly Gly Cys Val Ile
 100 105 110
 Ala Pro Leu Thr Ala Thr Phe Leu Gln Arg Tyr Pro Glu Val Arg Ile
 115 120 125
 Glu Leu Asp Leu Thr Asn Arg Met Val Asp Leu Val Glu Glu Gly Val
 130 135 140
 Asp Leu Ala Ile Arg Ile Gly Glu Ile Arg Asn Glu Asp Leu Val Ala
 145 150 155 160
 Lys Tyr Leu Cys Pro Tyr Asn Met Thr Ile Cys Ala Ala Pro Asp Tyr
 165 170 175
 Leu Ala Arg His Gly Thr Pro Gln Thr Pro Ala Asp Leu Val Asp His
 180 185 190
 Leu Cys Leu Ser His Thr Val Trp Thr Ala Arg Asn Glu Trp Arg Leu
 195 200 205
 Pro Gly Val Glu Gly Glu Val Arg Trp Lys Arg Asp Ala Val Leu Arg
 210 215 220
 Cys Asn Asp Gly Tyr Gly Leu Arg Met Ala Ala Arg Ala Gly Ala Gly
 225 230 235 240
 Leu Leu Leu Gln Pro Glu Val Leu Val Ala Glu Glu Leu Ala Ser Gly
 245 250 255
 Arg Leu Val Arg Val Leu Glu Ala Phe Thr Pro Ala Pro Arg Pro Val
 260 265 270
 His Leu Leu Trp Arg Gln Asp Leu Arg Pro Leu Pro Lys Leu Thr Glu
 275 280 285
 Phe Ile Ala His Ile Leu Leu Arg Leu Gly Thr Ile
 290 295 300

<210> 10166

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 10166

Thr Gln Leu Lys Glu Gln Asn Met Asn Lys Val Ile Leu Ile Thr Gly
 1 5 10 15
 Ala Ser Ser Gly Ile Gly Glu Gly Ile Ala Arg Glu Leu Gly Lys Ala
 20 25 30
 Gly Ala Lys Val Phe Leu Gly Ala Arg Arg Leu Glu Arg Ile His Ala
 35 40 45
 Leu Ala Asp Glu Ile Arg Ser Ala Gly Gly Glu Ala Glu Ala Gln Val
 50 55 60
 Leu Asp Val Thr Ser Arg Gln Ser Met Ala Phe Val Glu Ala Ala
 65 70 75 80
 Arg Glu Lys Trp Gly Arg Ile Asp Val Leu Ile Asn Asn Ala Gly Ile
 85 90 95
 Met Pro Leu Ser Pro Leu Ser Ala Gly Lys Gln Asp Glu Trp Glu Arg
 100 105 110
 Thr Ile Asp Val Asn Ile Lys Gly Val Leu Trp Gly Ile Gly Ala Val
 115 120 125
 Leu Pro Ile Met Glu Ala Gln Asn Ser Gly Gln Ile Ile Asn Ile Gly
 130 135 140
 Ser Ile Gly Ala Leu Ser Val Val Pro Thr Ala Ala Val Tyr Cys Ala
 145 150 155 160
 Thr Lys Phe Ala Val Arg Ala Ile Ser Asp Gly Leu Arg Gln Glu Ser
 165 170 175
 Ser Asn Ile Arg Val Thr Cys Val Asn Pro Gly Val Val Glu Ser Glu
 180 185 190
 Leu Ala Ser Thr Ile Thr His Glu Glu Thr Met Ala Val Met Asp Ala
 195 200 205
 Tyr Arg Ala Ile Ala Leu Lys Pro Ala Asp Ile Ala Arg Ala Val Arg
 210 215 220
 His Ile Ile Glu Ala Pro Glu Ser Val Asp Thr Thr Glu Ile Thr Ile
 225 230 235 240
 Arg Pro Thr Ala Ser Ala Asn
 245

<210> 10167

<211> 423

<212> PRT

<213> *Enterobacter cloacae*

<400> 10167

Ile Pro Gly Arg His Arg Gln Arg His Leu Val Leu Thr Ala Leu Gly
 1 5 10 15
 Gly Arg Met Leu Ser Gln His Val Leu Ile Val Glu Asp Ser Leu Val
 20 25 30
 Tyr Arg Arg Leu Leu Ser Arg Met Leu Thr Gln Trp Gly Tyr Thr Val
 35 40 45
 Tyr Glu Ala Glu Asn Gly Val Ala Ala Leu Glu Ile Leu Glu Asn Gln
 50 55 60
 Pro Val Ser Leu Val Ile Ser Asp Trp Asp Met Pro Glu Met Asp Gly
 65 70 75 80
 Leu Thr Leu Cys Arg Glu Val Arg Ser Arg Gln Phe Gly His Tyr Val
 85 90 95
 Tyr Leu Ile Leu Leu Thr Ala Arg Glu Glu Pro Gly Asp Leu Thr Val
 100 105 110
 Gly Phe Asp Ala Gly Ala Asp Asp Phe Leu Asn Lys Pro Val Glu Gln
 115 120 125
 Ser Glu Leu Arg Ala Arg Leu His Ala Gly Ala Arg Val Leu Ser Leu
 130 135 140
 Glu Ala Thr Leu Ala Thr Arg Asn Ala Arg Leu Ser Glu Ala Leu Arg
 145 150 155 160
 Gln Ile Glu Gln Asp Leu Glu Val Ala Ala Arg Ile Gln Gln Ser Val

165 170 175
 Leu Pro Ala His Gln Leu Arg Tyr Arg Asp Tyr Phe Ala Asp Trp Ile
 180 185 190
 Phe Leu Pro Ser Ala Trp Val Ser Gly Asp Ile Phe Asn Val Phe Pro
 195 200 205
 Leu Asp Asn His Leu Gly Phe Tyr Cys Val Asp Val Ser Gly His Gly
 210 215 220
 Val Gly Ala Ala Met Met Ser Leu Ala Val Ala Arg Gln Phe Leu His
 225 230 235 240
 Gly Arg Ala Val Glu Arg Phe Leu Phe Ala Asp Asp Ser Asp Val Ala
 245 250 255
 Ser Pro Ala Glu Val Val Arg Ile Leu Asn Gly Arg Phe Cys Ser Glu
 260 265 270
 Glu Val Glu Ile Met Ser Tyr Phe Thr Met Ile Tyr Gly Val Ile Asp
 275 280 285
 Leu Thr Thr Gly Glu Gly Lys Leu Cys Gln Ala Gly His Pro Thr Pro
 290 295 300
 Phe Ile Val Asn Pro Gly Gly Glu Val Arg Thr Val Gly Glu Gly Gly
 305 310 315 320
 Ala Pro Val Gly Leu Met Pro Asp Leu Ser Trp Ser Asp Val Ser Phe
 325 330 335
 Ser Leu Ala Pro Gly Glu Arg Leu Cys Leu Phe Ser Asp Gly Ile Thr
 340 345 350
 Glu Cys Glu Asn Pro Asp Asn Glu Gln Phe Gly Gln Ala Arg Leu Gln
 355 360 365
 Arg Arg Leu Gln Asp Asp Ala Thr Leu Ala Leu Glu Arg Leu Leu Pro
 370 375 380
 Gln Phe Ala Gln His Leu Ile Arg Trp Arg Ser Gly Lys Tyr Arg Glu
 385 390 395 400
 Gln Gln Ala Met Ala Asp Asp Val Ser Leu Leu Val Ile Glu Arg Thr
 405 410 415
 Gly Val Asn Asp Glu His
 420

<210> 10168

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 10168

Ser Arg Ser Cys Cys Glu Asn Phe Asn Phe Leu Cys Cys Ile Arg Met
 1 5 10 15
 Gln Arg Trp Cys Lys Tyr Lys Lys His Pro Leu Ala Glu Ala Phe Glu
 20 25 30
 Ala Arg Ala Asn Gly Gln Asp Val Asp Lys Glu Ser Gly Val Met Lys
 35 40 45
 Arg Lys Thr Phe Ala Ala Val Thr Ser Gln Gln Val Ala Gln Leu Ala
 50 55 60
 Gly Val Ser Gln Ser Ala Val Ser Arg Thr Phe Thr Pro Gly Ala Ser
 65 70 75 80
 Ile Ser Pro Ala Thr Arg Glu Lys Val Leu Lys Ala Ala Arg Glu Leu
 85 90 95
 Gly Tyr Arg Pro Asn Ala Ile Ala Arg Ser Leu Asn Thr Ala Arg Ser
 100 105 110
 Arg Ile Ile Gly Val Val Ile Ser Tyr Phe Asp Asn Pro Phe Tyr Ser
 115 120 125
 Gln Val Leu Glu Ala Leu Ala Gln Lys Leu Asp Thr Leu Asn Tyr His
 130 135 140
 Leu Leu Leu Phe Val Gly Asp Arg Glu Gly Asn Val Asp Arg Ile Phe
 145 150 155 160
 Asp Gln Ile Met Gln Tyr Arg Val Asp Gly Ile Val Leu Ala Ser Val

165 170 175
 Thr Leu Ser Leu Glu Leu Ser Glu Glu Cys Leu Ala Ala Gly Ile Pro
 180 185 190
 Val Val Leu Phe Asn Arg Ser Glu Glu Ser Gly Met Ala Ser Ser Val
 195 200 205
 Asn Ser Asn Asn Glu Ala Ala Ala Arg Gln Ile Ala Glu Phe Leu Leu
 210 215 220
 Ala Gly Glu His Lys Arg Phe Ala Tyr Val Gly Gly Val Ala Asp Ser
 225 230 235 240
 Pro Val Asn Ile Ala Arg Gln Arg Gly Phe Ile Ser Thr Leu Glu Glu
 245 250 255
 His Gly Ile Thr Asp Val Arg Val Val His Gly Asn Tyr Asp Ala Gln
 260 265 270
 Gln Thr Thr Arg Ala Ala Tyr Thr Leu Phe Ser Thr Ser Pro Ala Pro
 275 280 285
 Asp Ala Val Phe Val Ala Asn Asp His Met Ala Val Thr Val Met Asp
 290 295 300
 Val Ala Arg Tyr Glu Phe Gly Leu Arg Ile Pro Glu Glu Val Ser Val
 305 310 315 320
 Val Gly Tyr Asp Asp Ile Gly Pro Ser Gly Trp Pro Ser Tyr Ala Leu
 325 330 335
 Thr Ser Ala Ser Gln Pro Val Gly Ala Met Val Asp Ala Thr Val Glu
 340 345 350
 Leu Leu Met Lys Gln Ile Asp Ser Gly Thr Ile Glu Pro Glu Gln Ile
 355 360 365
 Thr Val Pro Gly Thr Leu Val Ile Arg His Ser Ala Arg Arg Pro Arg
 370 375 380
 Ser Gly Val Ile Glu Thr Asn Gly Leu Thr Leu Phe Gln Ser Lys Glu
 385 390 395 400
 Arg Thr

<210> 10169

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 10169

Thr Val Arg Cys Ser Gly Arg Asp Pro Pro Ser Ser Glu Arg Val Glu
 1 5 10 15
 Ala Gly Tyr Gly Arg Thr Gly His Ile Lys Lys Ser Arg Gly Val Leu
 20 25 30
 Arg Lys Ala Val Arg Leu Arg Tyr Ala Phe Ile Arg Asp Asn Ser Arg
 35 40 45
 Cys Trp Pro Val Arg Leu Leu Cys Arg Val Leu Asp Val His Pro Ser
 50 55 60
 Gly Phe Tyr Phe Trp Leu Gln Gln Pro His Ser Gln Arg His Gln Thr
 65 70 75 80
 Asp Gln Met Leu Thr Gly Gln Ile Lys Gln Phe Trp Leu Glu Ser Gly
 85 90 95
 Cys Val Tyr Gly Tyr Arg Lys Ile His Leu Asp Leu Arg Asp Thr Gly
 100 105 110
 Gln Gln Cys Gly Val Asn Arg Val Trp Arg Leu Met Lys Arg Ala Gly
 115 120 125
 Ile Lys Ala Gln Val Gly Tyr Arg Ser Pro Arg Ala Arg Lys Gly Glu
 130 135 140
 Ala Ser Ile Val Thr Pro Asn Arg Leu Gln Arg Gln Phe Asn Pro Asp
 145 150 155 160
 Ser Pro Asp Glu Arg Trp Val Thr Asp Ile Thr Tyr Ile Arg Thr His
 165 170 175
 Glu Gly Trp Leu Tyr Leu Ala Val Val Val Asp Leu Phe Ser Arg Lys

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<210> 10170
<211> 124
<212> PRT
<213> Enterobacter cloacae
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```
<210> 10171
<211> 809
<212> PRT
<213> Enterobacter cloacae
```

4200	10171																
Arg	His	Asn	Asn	Pro	Arg	Ser	Ser	Gly	Trp	Leu	Gly	Pro	Trp	Cys	Leu		
1				5				10						15			
Leu	Val	Gly	Val	Ile	Leu	Leu	Val	Thr	Gly	Leu	Phe	Phe	Ala	Ile	Gly		
			20					25					30				
Gly	Phe	Lys	Leu	Val	Ser	Val	Gly	Gly	Ser	Trp	Tyr	Phe	Leu	Ile	Ala		
		35					40					45					
Gly	Val	Ile	Thr	Leu	Leu	Ser	Ala	Ile	Gln	Phe	Phe	Arg	Arg	Lys	Ser		
		50				55				60							
Ser	Ala	Val	Gly	Leu	Phe	Ala	Leu	Val	Phe	Leu	Gly	Thr	Leu	Ile	Trp		
65				70					75					80			
Ala	Phe	Phe	Asp	Ala	Gly	Leu	Asp	Phe	Trp	Pro	Leu	Val	Ser	Arg	Leu		
			85						90					95			

Met Val Pro Ala Gly Leu Met Val Leu Ala Ala Ala Thr Trp Pro Ala
 100 105 110
 Leu Arg Lys Arg Glu Gly Lys Pro Ser Cys Ala Lys Gly Ala Leu Gly
 115 120 125
 Val Cys Ala Val Leu Ile Ile Ala Met Gly Val Thr Phe Val Gln Met
 130 135 140
 Phe Gln Pro His Pro Thr Val Pro Phe Ser Gly Glu Lys Arg Pro Leu
 145 150 155 160
 Val Pro Val Lys Asp Asp Ala Lys Gln Gln Asn Trp Asp His Tyr Gly
 165 170 175
 Asn Thr Ala Gly Ser Arg Phe Val Ala Leu Asp Gln Ile Thr Arg
 180 185 190
 Asp Asn Val Lys Asn Leu Lys Pro Val Trp Thr Tyr His Thr Gly Asp
 195 200 205
 Val Pro Glu Ser Pro Asp Gly Asn Gly Ala Glu Asp Gln Gln Thr Pro
 210 215 220
 Leu Gln Val Gly Asp Arg Val Phe Leu Cys Thr Pro His Asn Asn Val
 225 230 235 240
 Ile Ala Val Asp Ala Asp Ser Gly Lys Glu Ile Trp Lys Ala Glu Ile
 245 250 255
 Asn Ala Lys Ser Ala Ile Trp Met Arg Cys Arg Gly Leu Ala Tyr Phe
 260 265 270
 Asp Ala Thr Lys Pro Leu Ala Gln Pro Thr Val Ala Gly Ser Thr Pro
 275 280 285
 Val Leu Pro Ala Gln Val Ala Pro Gly Ala Ala Cys Gln Arg Arg Ile
 290 295 300
 Leu Met Asn Thr Ile Asp Gly Lys Leu Ile Ala Leu Asp Ala Asp Asn
 305 310 315 320
 Gly Lys Phe Cys Pro Asp Phe Gly Thr Asn Gly Ser Val Asn Leu His
 325 330 335
 Glu Gly Met Gly Asp Ala Ser Asp Pro Thr Tyr Val Leu Thr Ser Ala
 340 345 350
 Pro Thr Leu Ala Gly Thr Thr Val Val Gly Gly Arg Val Ala Asp
 355 360 365
 Asn Val Ser Thr Asp Met Pro Gly Gly Val Ile Arg Gly Tyr Asp Val
 370 375 380
 Ile Thr Gly Gln Leu Arg Trp Ala Phe Asp Pro Arg Asn Pro Asp Pro
 385 390 395 400
 Asn Tyr Val Leu Lys Pro Gly Glu His Tyr Lys Arg Ser Ser Ala Asn
 405 410 415
 Ser Trp Ala Pro Met Ser Trp Asp Ala Ser Met Asn Thr Val Phe Ile
 420 425 430
 Pro Met Gly Ser Ser Ser Val Asp Leu Trp Gly Ala Asp Arg Ile Pro
 435 440 445
 Glu Asp His Lys Tyr Ala Thr Ser Ile Leu Ala Leu Asp Ala Thr Thr
 450 455 460
 Gly Lys Glu Lys Trp Val Tyr Gln Thr Val His Asn Asp Leu Trp Asp
 465 470 475 480
 Phe Asp Ile Pro Met Gln Pro Ser Leu Val Asp Phe Pro Thr Lys Glu
 485 490 495
 Gly Asn Lys Pro Ala Val Val Gly Thr Lys Ala Gly Gln Ile Tyr
 500 505 510
 Val Leu Asp Arg Leu Thr Gly Lys Pro Leu Thr Glu Val Lys Glu Val
 515 520 525
 Pro Val Lys Pro Ala Asp Ile Pro Arg Glu Gln Tyr Pro Ala Thr Gln
 530 535 540
 Pro Arg Ser Val Gly Met Pro Gln Ile Gly Ala Glu Thr Leu Lys Glu
 545 550 555 560
 Ser Asp Met Trp Gly Ala Thr Pro Phe Asp Gln Leu Ala Cys Arg Ile
 565 570 575
 Ser Phe Lys Ser Met Arg Tyr Asp Gly Leu Tyr Thr Met Pro Gly Thr